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# CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL

PUBLIC WORKS • TENDERS •  
ADVANCE INFORMATION •  
AND MUNICIPAL PROGRESS

EVERY THURSDAY

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

VOL. 8.

JUNE 3, 1897

No. 18.

## THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY THURSDAY

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

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G. H. MORTIMER, Publisher,

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Village hand fire engine—standard size—double brass pumps; guaranteed in good order; black walnut box; double brakes; accommodates 15 to 20 men, throws to streams. Also second-hand rebuilt standard steamer, good as new. All thoroughly guaranteed—extra cheap. JNO. D. RONALD, Fire Engine Works, Brussels.

## TENDERS

Sealed tenders will be received by the undersigned up to 6 o'clock TUESDAY, JUNE 15TH, 1897, for the erection of a four-room brick school house at the east end of Petrolia.

Plans and specifications can be seen at the office of Messrs. Gordon & Helliwell, Architects, Toronto, or my office at Petrolia.

The lowest or any tender not necessarily accepted.

D. M. SHIELDS,  
Chairman of Building Committee,  
Public School Board.

## CONTRACTS OPEN.

MONKTON, ONT.—James C. Wilson will erect a building.

SUNDRIDGE, ONT.—F. Quirt will erect a new dwelling house.

DOUGLAS, ONT.—Dr. Sparling is preparing to build a residence.

TWEED, ONT.—Wm. Wright is preparing to build a residence on River street.

MERLIN, ONT.—J. W. Holliday is having plans prepared for a brick residence.

LINDSAY, ONT.—The purchase of a steam roller is under consideration by the town.

WATERVILLE, QUE.—Steps are being taken towards lighting the village by electricity.

BEDFORD, QUE.—The town council is considering the question of purchasing a road machine.

ST. THOMAS, ONT.—The Board of Education have decided to build a new twelve-roomed school.

ST. CATHARINES, ONT.—The damage by the break in the Welland canal is estimated at \$25,000.

WOODVILLE, ONT.—Steps are being taken looking to the installation of an electric light plant.

CARLETON PLAGE, ONT.—The town is said to have decided to abandon the present electric lights.

SHERBROOKE, QUE.—The Nova Scotia Lumber Company will rebuild their saw mill recently burned.

COOKSHIRE, QUE.—Friendship Lodge A. F. & A. M. have purchased a lot and will erect a large hall.

WOODSTOCK, ONT.—The town propose erecting a new market hall and weigh scales, at a cost of \$6,000.

PORTSMOUTH, ONT.—The council is considering the granting of a bonus for the erection of a grain elevator.

GUELPH, ONT.—G. R. Bruce, architect, is receiving tenders this week for alterations to residence of J. I. Hobson.

PETERBORO', ONT.—It is the intention of Meldrum & McAllister to rebuild their flour mill recently destroyed by fire.

TOTTENHAM, ONT.—The county council have passed a by-law permitting the erection of a high school in this village.

BOWMANVILLE, ONT.—A by-law granting a bonus of \$6,000 to the Bowmanville Rubber Mfg. Company has been carried.

KEARNEY, ONT.—Tenders are asked by J. F. Mann, secretary, until June 10th for the erection of a Presbyterian church.

NEWMARKET, ONT.—The county council is considering the advisability of erecting an addition to the Industrial Home here.

QUEBEC, QUE.—A large station is to be built on the site of the present St. John Street Railway Company's car stables.—T. L. Wilson is reported to have pur-

## Notice to Contractors

A new and thoroughly revised edition of the *Canadian Contractor's Hand-Book*, consisting of 250 pages of the most carefully selected material, is now ready, and will be sent post-paid to any address in Canada on receipt of price. This book should be in the hands of every architect builder and contractor who desires to have readily accessible and properly authenticated information on a wide variety of subjects adapted to his daily requirements.

G. H. MORTIMER, Publisher,

Confederation Life Building, TORONTO.

Branch office:  
New York Life Building, Montreal.

## SEALED TENDERS

Addressed to the Architects, will be received up to 12 o'clock noon on MONDAY, JUNE 14TH, for the carrying out of certain alterations and additions to a residence.

The plans and specifications may be seen after the 7th inst. at the office of the Architects.

The lowest or any tender not necessarily accepted.

CURRY, BAKER & CO., Architects,  
70 Victoria St., Toronto.

## Tenders for Dredging

Sealed Tenders addressed to Thomas Anderson, Esq., Clerk of the Township of Tilbury West, Comber, Ont., will be received up to 12 o'clock, noon, on TUESDAY, THE 15TH DAY OF JUNE, 1897, for the dredging, dyking, banking, etc., of Big Creek drainage works, in the County of Essex.

Plans and specifications may be seen and forms of tender obtained at the office of Thomas Anderson, Esq., Township Clerk, Comber, or at the office of Wm. Newman, C. E., Windsor, Ont.

No tenders will be entertained unless made on the printed form furnished by the Engineer.

Accompanying each tender must be a certified cheque on some chartered bank doing business in Ontario, in favor of the treasurer of the Township of Tilbury West, for the sum of ten per cent. of the amount of such tender, which cheque, in case of an unsuccessful tender, will forthwith be returned, but in case of the successful tender, will be retained until a bond satisfactory to the municipality for the due performance of the work is executed, or if such tenderer for any reason neglects or refuses to execute such bond within ten days after his tender is accepted, said cheque will be cashed, and the expense of re-advertising the work, and any additional cost of said dredging, will be retained from the proceeds of such cheque.

The lowest or any tender not necessarily accepted.

Office of Wm. Newman, Civil Engineer,  
Windsor, May 22nd, 1897.

## NOTICE TO CONTRACTORS

### TENDERS WANTED FOR SEWERS

Tenders will be received by the undersigned up to 12 O'CLOCK, NOON, JUNE 10TH, for the construction of Sewers on Downie Street, Erie Street and Ontario Street, in the City of Stratford. Contractors to furnish all material and labor.

Profiles and specifications can be seen at the offices of the City Engineers.

A marked cheque, payable to the order of the City Treasurer, Stratford, for 5 per cent. of the amount tendered for must accompany the tender.

Separate amounts to be mentioned for the construction of each sewer.

The lowest or any tender not necessarily accepted.

JOHN HOGARTH,  
Chairman Sewer Committee, Stratford, Ont.  
Stratford, May 29th, 1897.

## BUSINESS NOTES.

Caake & Williams, contractors, Rossland, B. C., will cease business.

Louis & Octave Mandeville, stone cutters, Montreal, have formed a partnership.

Gibson & Wilcox, plumbers, Rossland, B. C., have dissolved, P. D. Wilcox continuing.

Samuel Meadows, plumber, Queen street west, Toronto, has assigned to T.H. Pearce.

The dissolution is announced of Bell & Mills, manufacturers of building materials, Burks Falls, Ont.

V. Lapointe & Company, contractors, and P. R. Lefebvre, painter, have commenced business in Montreal.

Teer & Co., of Montreal, are discontinuing their manufacturing department, and the entire stock of their desk factory is being offered for sale.

The Beamsville Pressed Brick Company, of which Messrs. William Tallman & Son are the chief members, is reported to be financially embarrassed. At a recent meeting of creditors a statement was presented showing liabilities of \$40,000 and assets of \$63,000. The operations of the yards will be continued for six months by Mr. W. G. E. Boyd, assignee.

chased 20,000 horse power in the Lake St. John district, where he will erect a large plant.

**HINTONBURG, ONI.**—The school board have asked the council to grant the sum of \$8,000 to build an addition to the school.

**STOUFFVILLE, ONI.**—The proposal to construct a water works system, reported upon by James McDougall, C. E., has been abandoned.

**ST PAUL, QUE.**—Proposals are wanted until June 7th for the purchase of \$100,000 of 4 per cent bonds. Address R. G. Dunn, secretary treasurer.

**PERTH, ONT.**—The proprietors of the car wheel works intend putting in additional machinery and erecting a steel plant in the near future.

**TILBURY, ONI.**—The ratepayers will vote on a by-law to provide funds for enlarging the waterworks system and extending the electric light plant.

**NELSON, B. C.**—The purchase of a chemical fire engine is being agitated.—The city will probably purchase the waterworks system and extend the same.

**SACKVILLE, N. B.**—H. H. Mott, architect, of St. John, has been asked to prepare plans for a public school building to be erected here; probable cost, \$5,000.

**RICHMOND HILL, ONT.**—Mr. J. F. Brown, architect, of Toronto, has been instructed to invite tenders for the new high school building to be erected in this town.

**PORT GEORGE PRAIRIE, MAN.**—R. W. McLeod asks tenders up to June 8th for building a church here, the plans for which were prepared by H. S. Griffith, architect, of Winnipeg.

**STRATFORD, ONT.**—T. J. Hepburn, architect, has prepared plans for an office building to be erected in this city for the Perth Mutual Life Insurance Company. Contracts will be let this week.

**HULL, QUE.**—Mr. H. J. Beemer, the promoter of the O. & G. & P. & P. J. railways, has stated that the workshops would in all probability be erected in this town, and that plans for the same would shortly be prepared.

**CHATHAM, ONT.**—Francis Jacques asks tenders until to-morrow (Friday) for the erection of a two-storey frame dwelling.—Tenders for an electric light plant are asked until June 7th. Address T. A. Smith, Chairman Light Committee.

**PARRY SOUND, ONI.**—The Patent Cloth Board Company has been organized here, to manufacture cloth boards. The promoters are W. H. Marcon and W. W. Keighley, of Toronto.—James James proposes erecting a saw mill at this place.

**HALIFAX, N. S.**—The School of Art and Design propose erecting a large building, and have requested the city council to grant a site for the same.—Plans are being prepared by a local architect for rebuilding Clayton & Son's warehouse.

**PEMBROKE, ONT.**—The C. P. R. will erect a stone station here, to be fitted with modern improvements.—A by-law to grant \$20,000 as a bonus to the Pembroke Southern Railway Company will be submitted to a vote of the ratepayers on the 5th of July.

**PETROLEA, ONT.**—D. M. Shields will receive offers until June 15th for the erection of a four-room brick school house. Plans may be seen at Mr. Shields's office.—The trustees of the Methodist church have selected Mr. Erb's plans for their new building.

**LENOXVILLE, QUE.**—Tenders are asked by Rev. D. G. Wilkinson, of Bishop's College, until the 15th inst., for the interior woodwork and carving of the chapel. Plans may be seen at the college or at the office of the architects, Messrs. Taylor & Gordon, Montreal.

**ST. JOHN, N. B.**—Tenders close on

June 4th for a dwelling house for C. L. Nevins, corner Queen and Canterbury streets.—The time for receiving tenders for a brick engine house has been extended until noon, June 5th. Plans at the office of R. C. John Dunn, architect.

**OWEN SOUND, ONT.**—Only one tender having been received for electric lighting of the streets, the Fire and Light Committee will recommend the purchase of a civic plant.—Plans are being prepared for the proposed grain elevator to be built here by a joint stock company and operated by the C. P. R.

**WINNIPEG, MAN.**—Stewart Mulvey, secretary school board, invites tenders until the 20th inst. for the purchase of \$20,000 of debentures.—The Lake of the Woods Milling Company will build eight new elevators in the province this summer, besides making extensive improvements to the Portage and Winnipeg establishments.

**AMHERST, N. S.**—The following buildings are in the course of erection. Residences for C. S. Sutherland and Robert Pugsley, and three brick stores on Victoria street.—F. Donkin, town clerk, will receive proposals until the 25th inst. for the purchase of \$16,000 of debentures, \$8,000 being for water, \$7,000 for school, and \$700 for fire purposes.

**CYPRUS RIVER, MAN.**—It is understood that the Northern Elevator Company have decided to erect a large grain elevator at this point.—The Canada and Northwest Elevator Company have this week let the contract for a large elevator.—Mr. Hingston is preparing to erect a residence.—Fred. Young proposes erecting several dwelling houses.

**KINGSTON, ONT.**—The Queen's University contemplates building a new wing to the Medical College.—W. Newlands, architect, has in hand the erection of a building on Princess street for R. G. Carson.—Plans prepared by the government architect, Toronto, for an annex to the Kingston dairy school, have arrived, and the work will be undertaken at once. W. Newlands has been named as supervising architect.

**VICTORIA, B. C.**—W. S. Gore, deputy commissioner of lands and works, is receiving tenders this week for the erection of an addition to the asylum for the insane at New Westminster.—The city engineer has been instructed to proceed with the completion of the reservoir at Beaver Lake. The cost is estimated as follows: Raising and paving the floor with brick, \$6,056; trimming the slopes and facing with brick, \$3,780, or with concrete, \$7,740; new roof, \$2,855.

**LONDON, ONI.**—A permit has been granted for alterations to St. James' church, South London, to cost \$7,000. Herbert Matthews, architect, is taking tenders for improvements to business premises on Dundas street.—Tenders for cedar block crossings are asked by the city until 5 o'clock to-day (Thursday).—Tenders close to-day at 5 p.m. for the construction of brick sewers.—Subscriptions are coming in daily for the proposed hospital building.—In view of the proposed extension of the electric railway to Pottersburg, the County Commissioner will shortly invite tenders for road improvements.

**HAMILTON, ONT.**—The board of governors have approved of the plans for hospital extension.—Mr. Barrow, city engineer, will shortly prepare plans for the construction of the sewage disposal works at Ferguson avenue.—The City Council has decided to pave York street, between James and McNab streets, with Trinidad asphalt, at a cost of \$5,547.—George McMahon has been granted a permit for a two-storey brick dwelling on Hunter street east, for Mrs. Clark, to cost \$1,700.—The plans of the proposed jubilee wing of the City Hospital show a substantial two-storey structure of red brick, with cut-stone

foundations and trimmings, and with a one-storey operating room attached.

**OTTAWA, ONT.**—The Warren Scharf Asphalt Paving Company have stated their intention to construct a large plant here in case they should secure the contract for street pavements.—In the supplementary estimates to be laid before the Dominion parliament this week, an appropriation of \$25,000 will likely be made for the deepening of the Rideau river at its mouth.—The Ottawa Electric Railway Company are seeking power from parliament to borrow \$500,000 to pay the cost of extensions and improvements.—Tenders for penitentiary supplies for the Dominion are asked until June 19th. These include lumber, hardware, coal, etc.—A deputation from Montreal has requested improvements to the harbor there. They asked that the basin at Windmill Point should be completed, and a basin and dry-dock constructed at Maisonneuve, the whole improvements involving an expenditure of five million dollars.

**MONTREAL, QUE.**—According to a report submitted by the Chief of the Fire Brigade, the sum of \$10,000 will be required to repair the fire stations throughout the city.—A sub-committee of the Mount Royal Park Committee has reported that the sum of \$20,000 will be needed for improvements at the park. It was decided to recommend that the upper part of the look-out be rebuilt entirely and the whole structure extended considerably.—The plans for the improvement of the harbor, as approved by the Minister of Public Works, were submitted to the Board of Trade last week. It is understood the matter will shortly be settled by the government.—J. W. McGregor and J. G. Papineau have prepared plans for a building to be used as a recorders' court, central police station, fire-hall and morgue. The plans will be considered at the next meeting of the Finance Committee.—Chas. Chausse, architect, is inviting new tenders for the masonry and roofing of F. Mercier's house on Green avenue. Same architect is preparing plans for four residences to be erected on Cherrier street. Tenders will be invited shortly.

**TORONTO, ONT.**—Plans are being prepared for remodelling the premises at No. 14 and 16 King street west, owned by James Crowther.—At a recent meeting of the ratepayers of Little York school district, No. 26, it was resolved to extend the present school building. Tenders for the work will shortly be asked.—W. H. Clay, village clerk of East Toronto, has given notice of the intention of the municipality to extend its water works system.—The city council has given notice of its intention to construct a brick pavement on Spencer avenue, from King street to Huxley street, at a cost of \$9,400.—Plans of a new four-room brick school to be erected at Petrolea are on view at the office of Gordon & Helliwell, architects, this city.—The City Engineer has been requested to report on the cost of constructing a macadam pavement on University street, from the Armories to College street.—Building permits have been granted as follows: Firstbrook Bros., 3-storey bk. add. to factory, 293 King st. e., cost \$3,500; Wm. Miller, n. e. cor. Portland and Front st., 3 att. 2-storey bk. dwellings on Portland st., cost \$3,300; H. & C. Blachford, 114 Yonge st., alterations, cost \$1,500; Citizens Milling Co., Elizabeth st., bk. storehouse, cost \$1,700; Mr. Gooderham, Island Front, large 2-storey dwelling, cost \$7,500; R. Donald, Hooper st., Island, dwelling, cost \$1,200; Mr. Moore, house on Toronto Island, cost \$2,800; R. & T. Jenkins, 15 Toronto st., repairs to warehouse, 19 Front st. e., cost \$2,000; W. & D. Dineen, 4-storey brick store and office building, n. w. cor. Yonge and Temperance sts., cost \$30,000; J. L. Coffee, pr. s. d. bk. dwellings, Tyndal ave., cost \$7,000.—Gordon & Helliwell, archi-

fects, want tenders before Saturday next for a small brick residence on Rusholme road.—Tenders will close on Saturday, the 5th inst., in the office of Mr. F. H. Herbert, architect, for the remodelling, with new additions, of the premises of the Beard Estate, Jarvis street, for the Trust & Loan Co. of Canada, and also for alterations to residence, No. 32 Homewood ave. A. R. Denison, architect, will shortly invite tenders for the John Eaton building on Yonge st.—The city will construct the following pavements: Brick pavement on Boswell ave., from Avenue rd. to Bedford rd., cost \$4,220; cedar block pavement on Brock ave., from Queen st. to Dundas st., cost \$5,940; cedar block pavement on Euclid ave., from Arthur st. to College st., cost \$2,780; macadam pavement on Arthur st., from Bathurst st. to bridge, cost \$13,900; gravel roadway on Garden ave., from Sorauren ave. to Macdonell ave., cost \$1,200; gravel roadway on Aston ave., from Lisgar st. to Northcote ave., cost \$1,030; brick sidewalk south side Wellington st., from Bay st. to a point 100 ft. east of York st., cost \$815; brick sidewalk on west side Brunswick ave., from College st. to Ulster st., cost \$843; brick sidewalk on south side Queen st., from Tecumseh st. to Niagara st., cost \$1,945; brick sidewalk on south side Lombard st., from Victoria st. to Church st., cost \$940; brick sidewalk on west side Jarvis st., from King st. to a point 24 ft. south of Adelaide st., cost \$670; brick sidewalk on north side of Queen st., from Terauley st. to Chestnut st., cost \$1,138; brick sidewalk on north side Adelaide st., from York st. to Bay st., cost \$1,790.—J. F. Brown, architect, will likely invite tenders next week for the High School at Richmond Hill.—The tenders received for the new school at East Toronto were found to be too high. Alterations will be made in the plans and new tenders invited. The proposed expenditure is about \$5,000.—At a meeting of the Separate School Board held on Tuesday last, a report was presented by the Management of Supplies Committee recommending the purchase of seventeen desks for the junior classes of St. Helen's school, a suitable heating apparatus for St. Paul's school, and repairs to the various schools.

#### FIRES.

Hooper's mill and elevator and electric light plant at Carberry, Man., were totally destroyed by fire on May 31st. Loss \$30,000.—A brick block at Moncton, N. B., owned by L. W. Johnston, of Fredericton, was destroyed by fire last week. Insurance \$8,000.—At Barrie, Ont., on the 27th inst., a building owned by the Royal Oil Company, of Toronto, and Warren & Johnston, of Barrie, was destroyed by fire.—The Gartshore-Thomson Pipe and Foundry Company's works at Hamilton, Ont., were damaged by fire recently to the extent of \$3,000, covered by insurance.—The Arlington hotel at Birtle, Man., owned by F. Adams, has been burned.—The large planing mill and sash and door factory at Lucknow, Ont., belonging to Walter Stewart, was consumed by fire on Monday last. The electric light plant was also destroyed. Loss \$15,000; no insurance.—Samuel Higgins' carriage factory on Dundas street, Woodstock, Ont., was damaged by fire last week to the extent of \$5,000.—The furniture store of Whiting & Co., Wm. Irving's residence and the Mechanics' Institute, at Alvinston Ont., were burned recently.

#### CONTRACTS AWARDED.

HALIFAX, N. S.—The tender of Mr. Archibald has been accepted for the Exhibition building.

GANANOQUE, ONT.—R. J. Wilson, of this town, is the successful tenderer for a Catholic church at Elgin, to cost \$8,000.

PARRY SOUND, ONT.—T. Broadbent,

of Parry Harbor, has received the contract to build a residence on Gibson street, this town, for E. J. Vincent.

LITTLE CURRENT, ONT. The municipal authorities have decided to purchase a Champion road machine, manufactured by the Good Roads Machinery Co., of Hamilton.

GUELPH, ONT.—Contracts have been accepted as follows for a residence for Prof. Deane: Stone and brick, Mr. Matthews; carpentry, Wideman & Clemens; plumbing, Mahoney Bros.; painting and glazing, Cormie & Son; lathing and plastering, O'Donnell; unsmoothing and iron work, Rumford.

HAMILTON, ONT.—The Sawyer & Massey Company advise us that the Dominion government have purchased one of their road machines for use at the Experimental Farm, Ottawa, and regard this as a high compliment to the efficiency of the machine for road-making.—The tender of Alex. Thompson, for piling and masonry of the new Marsh bridge, has been accepted. The contract for superstructure has not yet been let.

KINGSTON, ONT.—Arthur Ellis, architect, has accepted tenders as below for a brick dwelling for Prof. Cappon: Masonry, W. Langdon; carpentry, J. Carver; plumbing, heating, metal work, etc., McKelvey & Birch; painting and glazing, Savage Bros.; estimated cost, \$4,000.—The following tenders were received for the supply of iron pipe: St. Lawrence Pipe Company, Toronto, \$24.50 a ton laid down in Kingston, special castings \$40 a ton; Gartshore & Co., Hamilton, \$24.50 a ton; Drummond, McColl & Co., Montreal, \$26.50 a ton.

QUEBEC, QUE.—Building permits have been granted as follows: One large coach house, 176 x 116 ft., two storeys, stone and brick, mansard roof, to be erected on St. John, Higuillon, Racine and Richelieu streets, for the Quebec District Railway

Co. contractor A. Fackrey, probable cost, \$25,000. Contracts have been awarded as follows for a college at Ste. Marie de Beauce: Masonry, M. Cantin, of Quebec; carpentry, T. Bilodeau, of Ste. Marie; roofing, S. Faucher, Quebec; painting, Nap. Laine, of Levis; plumbing and roofing, Charles Vezina, Quebec.

OTTAWA, ONT. Tenders were received by the city as below for asphalt: Bank street, from Maria to Ann streets: Warren Scharf Company, Trinidad asphalt, per superficial yard, guaranteed for 15 years, with 72 lb. rail, \$3.30; do., with 56 lb. rail, \$3.39, totals, \$45,003, \$46,173. Wm. Stuart, rock asphalt, per superficial yard, etc., with 72 lb. rail, \$3.49; do., with 56 lb. rail, \$3.59, totals, \$47,401, \$48,701. Canadian Granite Company, rock asphalt, per superficial yard, etc., with 72 lb. rail, \$3.25, do., with 56 lb. rail, \$3.28, totals, \$44,248, \$44,638. The tender of the Canadian Granite Company has been accepted.

TORONTO, ONT.—The Board of Control have accepted the following tenders for pavements and sidewalks: Concrete sidewalk, south side Prince Arthur ave., \$1.03 per lineal foot; concrete sidewalk, west side West Market street, \$2.40 per lineal foot; concrete sidewalk, east side Church street, \$1.75 per foot, to Gardner & Co.; vitrified brick pavement on concrete, Dufferin street, between King and the G. F. R. crossing, John McBain, \$5,819; vitrified brick, Hill street, from south drive to Glen road, Constructing & Paving Co., \$1,374; vitrified brick on gravel, St. Vincent street, between St. Joseph and Yonge streets, J. McBain, \$2,544; gravel, Lisgar street, between Queen street and Aston avenue, Matson & Son, \$1,350; macadam, Classic place, Constructing & Paving Co., \$788; cedar on gravel, Baldwin street, Constructing & Paving Co., \$695.—C. J. Gibson, architect, has let contracts as follows: Residence on Lowther ave. for Mr. Garside—

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

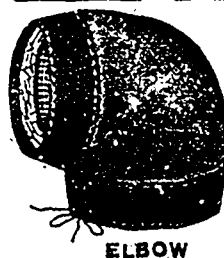
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The Authorities have shown great wisdom in their choice, as the cost over ordinary plaster is very trifling, and the advantages so manifest to every Architect who has given this remarkable production careful attention, that it cannot fail to commend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

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brickwork, Bedford Bros.; carpentry, Hutchins & Burns; plumbing and heating, J. B. Malcolm; painting, W. M. Weeks. Residence on Elm ave., Rosedale, for Mr. Drayton—masonry, Gordon & York; carpentry, Taylor & Clouston; plastering, Davey Bros.; painting, H. W. Johnston; roofing, Duthie & Son.

MONTREAL, QUE.—Contracts have been awarded as follows. W. E. Doran, architect, one residence, to be built on Mance street for Mrs McGarthy masonry. Hughes & Bryson; bricklaying, E. Gauthier; carpentry, Phaneuf & Dore; plastering, J. Lefebvre; plumbing, W. G. Graham; painting, glazing and roofing not let. A. F. Dunlop, architect, three stores and extension to music hall on St. Catherine street, for F. Fairman—masonry, Wighton & Morison; carpentry, Labregue & Mercure; bricklaying, Isaac Lewis. David Ogilvy, architect, one residence on Drummond street, for John Duncan—masonry, E. Picard; carpentry, T. Benard.—James & H. C. Nelson, architects, have awarded the contracts for Mr. Abbott's house at St. Ann's to J. B. Crevier, St. Ann's, all trades. The building will be clapboard, with stone foundation.

CHATHAM, ONT.—J. L. Wilson & Son, architects, have let the contracts for the following buildings. School house at North Tilbury, cost \$800; brick veneered church at Croton, cost \$2,500; school house for school section No. 5, Township of Zone, cost \$1,600; brick residence for Milton Moorehouse, near the village of Shetland; brick residence for Wm. Snow, Blenheim; brick veneer residence for John Jardine, Tilbury North, cost \$2,000; brick residence, with slate roof, for E. R. Smith, Lacroix street, cost \$3,000; brick veneer residence for Archie Wemp, on Wellington street; \$1000 brick residence on Sheldon avenue, North Chatham, for G. A. Thompson; \$2,500 residence for James McKinley, Tp. of Howard; additions to residence of J. B. Runkin, B.A., Chatham.

**A FLOATING CHURCH.**

A "floating church" has just been inaugurated in the fen country. The parish of Holme, in the diocese of Ely, has, in consequence of the drainage of the fens, especially the famous Whittlesea Mere, so extended itself that about half of the population are practically out of reach of the parish church. To assist him in getting at these outside parishioners, the vicar is trying the experiment of using a kind of house-boat, which can be moved from point to point on the large

fen dyke or canalized river surrounding three-fourths of the parish. The craft in question, fitted up as a church, with a small American organ, portable pulpit and lectern, and conveniences for the administration of the Holy Communion, baptism, etc., has received the full license of the Bishop of Ely, and been solemnly dedicated by the Archdeacon of Huntingdon. There is accommodation for a congregation of about forty, and in fine weather—all the windows to the leeward being thrown open—additional worshippers can participate in the services from the dyke bank.

gested in a closed flask for two weeks, and the clear solution poured off. To this four parts of collodion are added, and the whole is allowed to clear by standing.

**FIREPROOF CEMENT.**—The following are said to give good results: (1) iron filing, 140 parts; hydraulic lime, 20; quartz sand, 25; sal ammoniac, 3, formed into a paste with vinegar, and then applied: (2) iron filings, 180 parts; lime, 45; common salt, 5, made into a paste with strong vinegar, as in the former receipt. In both cases the cement is to be dried slowly, and to be perfectly dry before being submitted to heat, after which it is stated to become as hard as a stone.

**USEFUL HINTS.**

**WATERPROOF PAPER VARNISH.**—For a waterproof paper varnish, one part Dammar resin and six parts acetone are di-

Adam Hope Co., wholesale hardware merchants, Hamilton Ont., have suspended payment, with liabilities at \$75,000. It is expected a statement of affairs will show a surplus.

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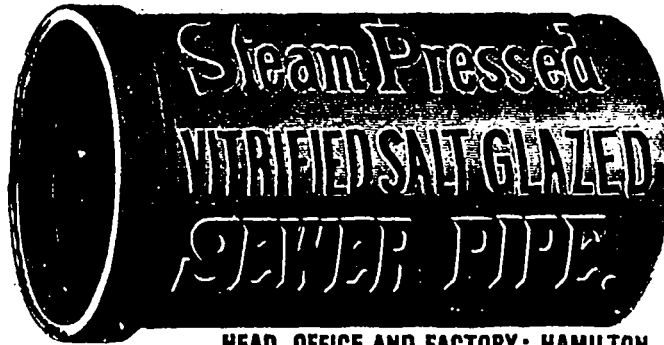
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## MUNICIPAL DEPARTMENT

### BRICK ROAD IN THE COUNTRY.

The first country road in Illinois to be paved with brick was constructed last summer in Warren county, just outside the city of Monmouth. The people of this locality four years ago became disgusted with ordinary earth roads, and began experiments in hard road building. A combination dirt and stone road was first tried, and this gave such general satisfaction that an experiment in paving with brick was determined upon.

Under the State law passed in 1883 a special assessment was levied, providing the necessary funds. The road was first graded and allowed to stand for two months. It was given an occasional leveling and scraping, so that when the contractors were ready to lay the brick it was as hard and even as a floor. Two 2 x 6 oak planks were set on edge, seven feet apart, and were held in place by oak staves eighteen inches long and four feet apart. The space between these boards was covered with four inches of sand. This was carefully leveled, and a single course of paving brick, set on edge, was laid. Outside the boards, or wooden curbs, was placed two feet of crushed rock. Then the earth was graded up to this, making a gradual approach. The hard road is thus eleven feet wide, with a good earth track on each side, making in all a total width of forty feet, thus providing one solid track for wet weather and two natural earth ones to be used in drier time. Up to date this road has given perfect satisfaction, the only objection being urged that it is not wide enough. This, however, is not serious, as the road is capable of taking care of all its travel. It is easy for the driver to get on and off the road. The total cost of the combination brick and stone road was 90 cents per running foot.

It is necessary, of course, that roads built in this manner be thoroughly drained. This is accomplished in Warren county, where land is level, by putting in a line of five-inch drain pipe on each side to a depth of three feet. In some places only one line is necessary. In one instance of hard road building two lines of five-inch tile were put down five feet, one on each side of the center. Where the land is rolling, the water will take care of itself and no extra tiling is necessary.

In building the stone roads in the same neighborhood the successful plan is to begin by grading the roads slightly, so as to get the completed track considerably above the level. This will prevent mud being

carried upon the stone and the latter covered. Upon this grading is placed a layer of flat stones, about six inches thick, to a depth of eight feet. This layer was covered with two inches of fine screenings, and over the whole eight to twelve inches of crushed rock was laid. Earth was graded up at the sides to prevent the crushed rock from spreading, thus making the road about nine feet wide. The part built on this plan has been in use two years and has grown better all the time. A mistake made in earlier work was to begin with coarse stone and finish up with the finer particles. This was found unsatisfactory, as the upper layers soon worked into a fine dust or mud, which was almost as bad as the original earth road. In repairing, the parts to be rebuilt are plowed and harrowed, then dressed up with crushed rock. Orange Judd Farmer.

### LEGAL DECISIONS AFFECTING MUNICIPALITIES.

#### WIGLE VS. VILLAGE OF KINGSVILLE.

—A by-law of a village corporation authorized the raising, by way of loan, of a certain sum for the purposes of mining and supplying the village with natural gas, and the issue of debentures therefor. A Divisional Court held, having regard to section 282 of the Consolidated Municipal Act, 1892, that a by-law was necessary to authorize the making of a contract for the mining work to be done, and that this by-law did authorize it. Also, that a resolution of the council, though entered in the minute book and containing the contract at full length, and having the seal of the corporation attached to it, could not be considered a by-law because it was not signed as required by section 288.

It is said to be the intention of the F. C. Austin Manufacturing Company, of Chicago, to establish a branch factory in Canada.

The sedimentation basin being built for the Chatham water works system is being rapidly pushed to completion. This will be a valuable addition to the city water works, ensuring a supply of clear water. Any municipality contemplating similar works might obtain valuable assistance from Mr. Edwin Jones, the superintendent, as to the construction of this, which presents numerous good features.

### A VIENNA PAVEMENT

A pavement used in Vienna consists of granulated cork mixed with mineral asphalt and other cohesive substances, compressed into blocks of suitable size and form. Among the numerous advantages set forth in its behalf are cleanliness, noiselessness, durability, elasticity, freedom from slipperiness, whether wet or dry, and moderate cost. Unlike wood it is non-absorbent, and consequently inodorous. It presents the minimum resistance to traction, and being elastic under passing loads, does away with the vibration caused by heavy teaming. The blocks are embedded in tar, and rest upon a concrete base six inches thick. When taken up for examination they have exhibited, when compared with new ones, a reduced thickness by wear of less than  $\frac{1}{8}$  inch—this in the case of a section of a London street leading to the Great Eastern Railway station, subjected to continuous heavy traffic, the blocks having been in use nearly two years.

### INDIA RUBBER PAVEMENTS.

The latest innovation is paving streets with india rubber, which material threatens to enter into competition with asphalt. The new pavement is an invention of Herr Busse, of Linden, who has introduced it in Hanover. He used it first in the summer of last year for paving the Goethe Bridge, which has a surface of about 1,000 square metres, or 10,764 square feet. The new pavement, it is stated, proved so satisfactory that 1,500 square metres (16,146 square feet) of ordinary carriage-way in the city were paved with it last summer. The Berlin corporation, being favorably impressed with the new pavement, has had a large area on the Lutzow-Ufer paved with india rubber as an experiment, and the magistracy of Hamburg is likewise trying the pavement. It is asserted that the new pavement combines the elasticity of india rubber with the resistance of granite. It is said to be perfectly noiseless and unaffected either by heat or cold. It is not so slippery as asphalt and is more durable than the latter. As a covering for bridges it ought to prove excellent, as it reduces vibration; but a question may be asked as to its cost. The expenses must be heavier than that of any known pavement.

The American Ball Nozzle Company of Toronto has been incorporated by the Ontario government, to manufacture ball nozzles and all kinds of appliances for extinguishing fires and for sprinkling lawns. The promoters are J. F. Risley, A. R. Boswell, G. L. Lennox, and others, of Toronto, and the capital stock \$12,500.

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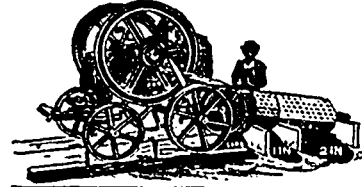
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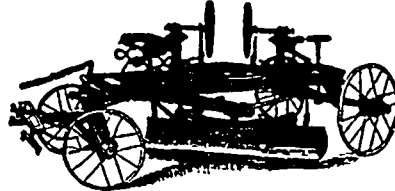
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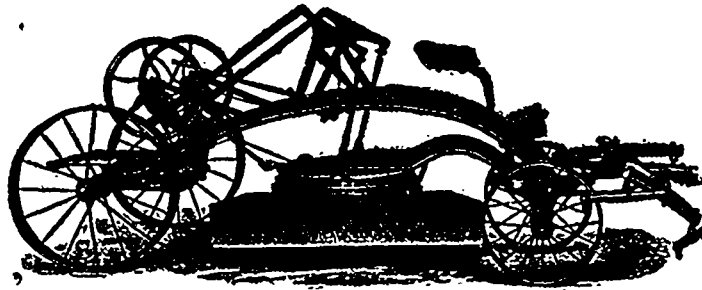
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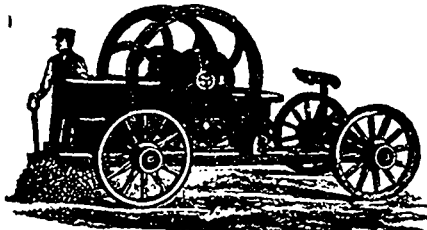
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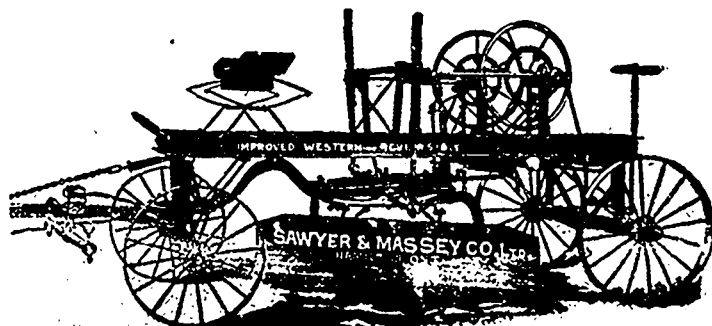
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