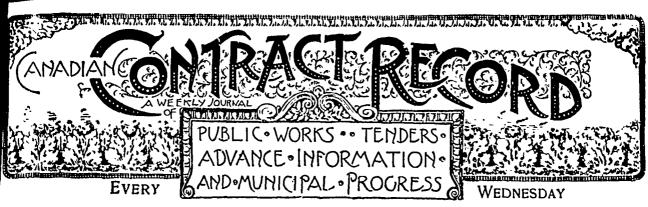
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This paper reaches every week the Town and City Clerks, Town and City Engineers, County Clerks ar I County Engineers Purchasers of Municipal Debentures and leading Contractors in all lines throughout Canada.

VOL. 10.

JUNE 28, 1899

No. 22

#### THE CANADIAN CONTRACT RECORD

PUBLISHED EVERY WEDNESDAY As in Intermediate Rdition of the "Canadian Architect and Builder."

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#### FOR SALE

A 16-inch Y Level, nearly new, to be sold at half price. Box 245, Ningara Falls, Ont.

#### CITY OF CALCARY

Scaled tenders will be received by the undersigned, and marked "Tender for Debentures," up to noon, SATURDAY, 8711 JULY, 1899, for the purchase of DEBENTURES to the amount of \$90,000, issued for the purpose of constructing a Waterworks System for the said City.

The said Debentures are payable in thirty years and bear interest at the rate of four per cent., payable half-veryly.

yearly.

The highest or any tender not necessarily accepted.

Calgary, June 7th, 1899.

CHAS. Mc WILLAN,
City Treasurer.

## To Contractors

### PERMANENT PAVEMENTS, OTTAWA

Sealed tenders, by registered post only, endorsed "Tender for Permanent Pavements," will be received by the undersigned uptill (20 clock) noon of FRIDAY, IULY 711, 1869, at the City Hall, Ottawa, for the construction complete of the following works

#### ASPHALT PAVEMENT:

Wellington Street, Lyon to Concession. McLaren Street, Bank to Bay.

Plans and specifications may be seen at the City Engineer's office on and after Tursday, June 29th, from whom forms of tender and full particulars may be obtained.

Tenders must be accompanied by an accepted bank cheque, payable to the order of the City Treasurer, for net less than five per cent. of the amount of the tender. The Corporation do not bind themselves to accept the lowest or any tender.

JAMES DAVIDSON, Chairman Board of Works,

City Hall, Ottawa, June 21, 1899. .

#### **TENDERS**

Sealed bulk or separate tenders will be received by the Proprietor, Geo. J. Watts, Esq., Thamessille, Ont., or at the architect's effect. Chatham, addressed to the proprietor, for the several traces required in the Brection of a Three Storey Brick Hotel

in Thamesville, including Heating and Plumbing, separately. Plans and specifications can be obtained at the architect's effice, Chatham Ont. Lowest or any tender not necessarily to be accepted

JAMES L. WILSON & SON, Architects, Box 511, Chatham, Out.

GEO. J. WATTS, Esq., Proprietor, Thamesville, Ont



#### Notice to Contractors

### TENDERS

Tenders will be received, by registered post only, addressed to the Chairman of the Board of Control, City Hall, Tomoto, up to noon on WP DNFSDAY, THE STH OF JULY, 1899, for the following works:

#### **ASPHALT PAVEMENTS:**

Brunswick Avenne, from Sussex Avenue to Bloor

Street.
Marion Street. from Lansdowne Avenue to O'Hara

Hay Street, from Esplanade to Front Street.
Prince Arthur Avenue, from Huron to St. George.

#### **BRICK PAVEMENTS:**

ncord Avenue, from Bloor Street to 180 feet south

Concoru Avenue, ....
of Hepbourne.
Fraser Avenue, from King Street to a point 239 feet

south.

Lippincott Street, from College Street to Ulster

#### CEDAR BLOCK PAVEMENTS:

Beatty Asenue, from King Street to Queen Street.
Adelaide Street, from Bay Street to York Street.
William Street, from Queen Street to Caer-Howell,
Sackville Street, from Gerrard to Carlton Street.
Oxford Street, from Augusta Avenue to Lippincott
treet.

#### MACADAM ROADWAY:

Sword Street, from Gerrard Street to Spruce Street.

#### CONCRETE SIDEWALKS:

Queen Street, north side, Gwynne Avenue to 43½ et east of O Hara Avenue feet east of O Hara Avenue
Adetaide Street, south side, Yonge Street to Bay

Street. Street, south side, from it o feet west of Y.rk.
Street to a point 52 feet east of Simcoe Street.

Street to a point 52 feet east of Simcoe Street.

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

Specifications may be seen and forms of tender obtained at the office of the City Engineer on and after Wednesday, June 27th.

A deposit, in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 2½ per cent, on the value of the work tendered for, must accompany each and every tender, otherwise they will not be entertained.

Tenders must bear the bona fide signatures of the contractors and their sureties, or they will be ruled out as informal.

Lowest or any tender not necessarily accounts.

Lowest or any tender not necessarily accepted.

JOHN SHAW (Mayor), Chairman Board of Control. City Hall, Toronto, June 23rd, 1899.

#### **CEMENT WALKS**

Tenders will be received by the undersigned up to six oclock, p.m., on MONDAY, JULY and, 1859, for the construction of CEMENT WALKS in the Town of Waterloo during the year 1959. Specifications and forms of tender may be obtained from the undersigned.

A. B. McBRIDE, Waterloo, June 22nd, 1855 Town Clerk,

#### TENDERS

#### Concrete Walks

Sealed tenders, marked 'Tenders for Walks, will be received up to 7 p.m. on TUESDAY, JULY axtu, for the construction of about 16,000 square feet of CLMENT-CONCRETE WALKS in Renfrew, Ont. repetition. Tender to be accompanied with marked seeine for \$100, which will be required to furnish bonds to amount of contract price. The lowest or any tender not necessarily accepted. Address

W. E. SMALLFIELD, Ch. Streets Committee, Renfrew, Opt.

### TENDERS

Scaled tenders will be received by the undersigned up to 5 o clock jum. on WEDNESDAY, JULY 5TH, 1899, for

One 60 k.w. Generator and Necessary Supplies.

Also tenders for one 200 h.p. Engine.

Specifications can be obtained from the Town Clerk, oderich.

The lowest or any tender not necessarily accepted.

D. CANTELON, Chairman Water and Light Committee. Goderich, Ont., June 20th, 1899.

#### TOWN OF LINDSAY

Separate tenders, addressed to the Chairman of the Board of Works, will be received up to 12 o clock, noon on FRIDAY, THE 20TH OF JUNE NEXT, for supply of materials in the construction of the following, viz.:

- Supplying Sewer Pipes in all sizes up to 18 inches.
- Construction of about 918 feet of 12-inch Tile Sewer on Lindsay Street and about 1027 feet of 9-inch Tile Sewer on Glereig Street, together with the necessary side and cellar drains. Tenders are requested both for doing the work complete (supplying all material, etc.) and for doing all work with material supplied by the Town.
- Construction of a 12-foot Granolithic Walk along the south side of Kent Street for a dis-tance of about 210 feet.

Each tender must be accompanied by a deposit in the form of a marked cheque for 5.. of the tendered price, which will be returned upon a contract being entered

which will be returned upon a second for June 26th Into.

Plans and specifications may be seen after. June 26th next, and forms of tender obtained at the office of the Town Clerk, or at the office of the Engineer, W. T. Ashbridge, C.E., Temple lluilding, Teronto.

The lowest or any tender not necessarily accepted.

GEORGE INGLE.

GEORGE INGLE, Chairman Board of Works

#### STONE ABUTMENTS

Tenders will be received by the undersigned up to a o'clock p.m. on

#### TUESDAY, JULY 11TH NEXT.

for Stone Abutments for Ran's bridge in the Village of New Hamburg: For all information, specifications and forms of tender, apply to the undersigned, HERBERT J. BOWMAN,

Civil Engineer

Berlin, Ont., June 26th, 1899.

#### Steel

#### Gombination Bridge

Tenders will be received up till JULY 3RD AT NOON for building a BRIDGE over the Sangeen River in the Township of Brant; Span one hundred and fifty feet, Roadway 14 feet, Load one hundred and twenty pounds per square foot. Floor of superstructure to have a grade of two feet in length of Bridge. Bridge to be set on piles or masonry and concrete per cubic yard or foot. Bridge is about two miles from Cargill Station on the 8th Concession. Further information can be had from Jas. Brocelbank, Maple Hill, or Jas. Warren, Engineer, Walkerton. The lowest or any tender not necessarily accepted. necessarily accepted.

JAS. BROCELBANK.

### London Waterworks TENDERS FOR DAM

Sealed tenders will be received, addressed to O. Elwood, Secretary Waterworks, London, Ont., up to 4 p.m., MONDAY, JULY 10TH NEXT, for the construction of a Concrete Dam, Flume and Sluiceway at Springbank, for the Waterworks Commissioners of the City of London. Each tender to be accompanied by a certified cheque for five per cent. of the amount of the work tendered for. Plans and specifications may be seen at the office of Moore & Henry, C.E., Albion Building, London, Ont. Lowest or any tender not necessarily accepted.

JOHN M. MOORE, Chief Engineer, L.W.W. WILLIAM JONES, Chairman.



#### **Nottce to Contractors**

Separate tenders, addressed to the undersigned, will be received at the City Hall, through registered post only, up to noon on

Wednesday, July 5th, 1899,

for the erection of three buildings on the Exhibition Grounds, to be used for the swine exhibit.
Plans and specifications may be seen and all information regarding the same obtained upon application at the office of Mr. Mark Hall, Architect, 6: Victoria

Street.

Each and every tender must be accompanied by a marked cheque, made payable to the order of the City Treasurer, or a cash deposit equal to 2½ per cent. of the amount of the tender if over \$1,000, and 5 per cent. thereof if under that amount.

The lowest or any tender not necessarily accepted.

JOHN SHAW (Mayor) Chairman Board of Control.

City Hall, Toronto, June 24th, 1899.

#### CONTRACTS OPEN.

OWEN SOUND, ONT .-- Grey county council has defeated a motion to establish a House of Industry.

UDORA, ONT.—It is reported that a new hotel will be erected on the site of the Northern hotel, by Mr. Clelland.

BRANTFORD, ONT. — The Board of Directors of the Y. M. C. A. purpose expending \$1,200 on improvements.

TERRA COTTA, ONT .- Miss Smith, storekeeper, has purchase I property on which to build a store and dwelling.

CHATHAM, N.B.—There is an agitation to have the waterworks and sewerage systems proceeded with this season.

VERNON, B. C.—The ratepayers have

approved of a by-law to borrow \$30,000 for construction of waterworks system

GUELPH, ONT.—Tenders close July 1st, at 5 p.m., for erection of brick and stone residence for Prof. Shuttleworth.

RAT PORTAGE, ONT .- The town engineer has been instructed to prepare a plan for a sewerage system for the town.

BILLINGS BRIDGE, ONT.—The town-ship authorities are calling for tenders for erection of a bridge over Finley's creek.

INWOOD, ONT.—Ait. Dobbyn, hardware merchant, has purchased property on which to erect a \$3,000 store and resi-

REGINA, N.W.T.—D. Smith, inspector of public works, has prepared plans for improving the police barracks here, cost \$4,000.

MANITOU, MAN.—On July 7th the ratepayers will vote on a by-law to provide funds for purchasing a chemical fire

ARNPRIOR, ONT.—The new C. P. R. station will be of grey stone and lighted by electricity. Work will be commenced

ALMONTE, ONT.—Mr. Ritchie is said to be considering the question of installing a 500 light incandescent electric light plant.

FREDERICKSBURG, ONT.—It is probable that a steel bridge will be built to replace the wooden structure known as Forshee's bridge.

COLLINGWOOD, ONT .- The council intends to construct cement sidewalks on south Second street and Hurontario street, cost \$906.70.

SARNIA, ONT. — Tenders closed on Monday of this week for laying granolithic sidewalks and street crossings. Stewart is town clerk.

WALKERTON, ONT .- The town council, at last meeting, confirmed the by-law to raise \$6,8000 for improvements, including granolithic sidewalks.

LONDON, ONT.—John Barled, of South London, has purchased the Riverview property and intends erecting several brick residences thereon.

RENFREW, ONT.—On July 17th the ratepayers will vote on by-laws to provide funds for waterworks and sewerage extension and for temporary loans.

MOUNT FOREST, ONT.—A by-law has been introduced in council providing for the construction of a cement sidewalk on Birmingham street, cost \$1,117.49.

LENNOXVILLE, QUE,-The town will borrow \$5,000 for construction of sewers and sidewalks. J. Morkill will make a survey for proposed sewers at once.

CHALK RIVER, ONT .- Tenders for building school house here are invited by C. M. Copps up to July 15th. Plans at office of J. L. Morris, C.E., Pembroke.

WELLAND, ONT.—The Frost Wire Co.

expect to make large additions to their factory shortly.—D. Tuft & Son will likely build a large wharf and elevator.

NELSON, B.C.—The city engineer has prepared specifications for water pipes required by the city, and manufacturers have been asked to submit tenders by July 3rd.

OSHAWA, ONT.—Ontario county will build a House of Refuge, Messrs. John and W. F. Cowan, of this town, having offered \$5,000 cash and 45 acres of land for the purpose.

VICTORIA, B.C.-W. S. Gore, Deputy Commissioner of Lands and Works, invites tenders up to July 7th for erection of school buildings at Greenwood, Ashcroft, Slocan, Revelstoke and Fernie.

SANDON, B.C.—Plans are being pre-pared for the new Payne bunkhouse, which will be 140×14 feet, divided into

ter, rooms and fitted with steam heating and modern plumbing apparatus.

WOODSTOCK, N.B.—The trustees of Hartland school district No. 3, county of Carleton, invite bids for the purchase of thirty debentures of \$100 each. Particus lars from E. C. Morgan, secretary.

RIDGETOWN, ONT.—D. Cochrane desires tenders by July 3rd for alterations and additions to Mount Zion Ptesbyterian church here, from plans prepared by Spier & Rahns, architects, Windsor.

EDMONTON, N. W. T.—Plans are being prepared by F. Deggendorfer, architect, for a \$6,000 brick block for Chas. Sandison; 30 x 75 ft., two stories, plate glass front, iron columns and concrete facing.

ONT .- The Royal Electric Co, are said to have made application to the council for a franchise for an electric railway between this town and Allandale, with the privilege of extending it to other

HALIFAX, N.S.—John Snow & Co. are about to make additions to their premises on Argyle street, including mortuary and receiving chapel.—The Imperial estimates contain a vote of \$200,000 for fortifications for this city.

GODERICH, ONT .- D. Cantelon, chairman Water & Light Committee, desires tenders by July 4th for the supply of one 60 k.w. generator and one 200 h.p. engine, together with necessary supplies. Specifications from town clerk.

ORANGEVILLE, ONT.—Tenders are invited by W. H. Hunter up to July 4th for steam heating of the county court house and gaol. Plans at court house, this and gaol. town, and at office of John Ritchie Plumbing & Heating Co., Toronto.

BIRCHTON, ONT .- Tenders are invited up to June 30th, for the repairs to school house in district No. 9 of the township of Eaton. Specifications can be seen at A. C. Williams', Bulwer, or at the office of

A. F. Swan, sec-treas., this place.

KAMLOOPS, B. C.—T. Armstrong will probably build a business block, corner Victoria street and Second ave.—The Kamloops Hotel Co. have accepted the plans submitted by G. Tiarks, architect, for the proposed hotel. C. W. Ward has been chosen as manager. been chosen as manager.

CALGARY, N.W.T.—Information is to hand from Ottawa that negotiations are under way for the immediate construction of the Red Deer Valley Railway from Calgary to Knee Hill, and that in all probability the road will be built this year for a distance of 55 miles.

MEAFORD, ONT. — Improvements to harbor are proposed, including the extension of the G. T. R. tracks.—The Botsford Jenke Co., of Port Huron, have submitted a proposition to erect a million bushel grain elevator here. The town will be asked to grant a bonus of \$25,000.

LONDESBORO, ONT. — The Hullett council has decided to build a steel bridge, with stone or concrete abutments, on the base line near Govier's. Tenders for same close at 2 p. m., June 30th. The council is also considering the building of a new bridge over the Maitland river.

BRANDON, MAN.—Mr. Millican, C.E., of the Provincial Public Works Department, is taking levels for certain proposed works, including two bridges over the Assinibone river. Mr. Dancer, of the same department, is making surveys for proposed roads and bridges in the Kildonian district donian district.

BROCKVILLE, ONT.—The county council has granted \$400 to assist the municipality of Augusta in building a new bridge over the Rideau river in Augusta township.—Plans have been prepared by B. Dillon, architect, for improvements to the registry office, including one storey and basement addition; probable cost, \$2,700.

Hersall, Ont.—Tenders will be received until July 3rd for the construction of the Shepard drain, in the township of Tuckersmith, county of Huron; estimated cost, over \$5,000. Plans and specifications may be seen at office of F. W. Farn-Conto, C. E., London, or A. G. Smillie, clerk of Tuckersmith, this place.

IN.ERSOLL, ONT.—Tenders are invited by W. D. Francis, clerk of West Oxford township, for the construction of the Wilson drain and branch, also for supply of material and construction of two bridges on said drain. The date limit is July 1st. Plans at office of the clerk and F. J. Ure, engineer, Woodstock.

SYDNEY, C. B.—The Whitney Iron & Steel Co. have had plans prepared for their proposed works. It is said that they have given a contract to a Nova Scotia firm for six million bricks. It is also rumored that the Nova Scotia Steel Co. will remove their plant to North Sydney, where they have been making surveys during the spring.

KINGSTON, ONT.—Applications are invited for the Chair of General Engineering in the School of Mining, this city. An instructor in Mechanical Drawing and Mechanical Engineering for next session is also wanted.—H. P. Smith, architect, wants tenders by 29 h inst. for erection of two dwellings, corner Wellington and West streets, for G. S. Oldrieve.

ROSSLAND, B.C.—J. A. Turner, government agent, has been instructed to call for tenders for erection of land registry office, corner of Vernon and Stanley streets, to cost about \$10,000.—The corporation has been granted permission by the Provincial Board of Health to discharge the city sewage into the Columbia river, subject to the approval of the plans by the board.

VANCOUVER, B. C.—T. Veitch will build a brick block on Alexander street.

—An addittion to the east end school is proposed, cost \$1,750.—The Canadian Pacific and the Great Northern railways are said to have decided to join in the building of a line to connect the Boundary Creek mining camp and the Washington camp. The line will be about 85 miles long.

ST. JOHN, N.B.—R. C. John Dunn, architect, is preparing plans for a brick warehouse for T. Rankine & Son.—The Board of Works have recommended the city council to borrow \$50,000 for permanent street improvements.—The departmental engineer has submitted to the council a statement asking for \$19,000 for necessary sewers and \$2,000 for water mains.

PEMBROKE, ONT.—Tenders will be received up to Monday, July 3rd, for the proposed enlargement of the high school, according to plans and specifications which will be furnished. Address, J. H. Burritt, chairman special committee.—Tenders have been invited for the construction of sewers.—The council has finally decided to construct an iron bridge over Mary street, and a by-law will be prevared to provide funds for the purpose.

HULL, QUE.—On July 20th the rate-payers will vote on a by-law to raise \$4,000 to erect a bridge over Brewery creek, and \$3,500 for a fire-hall.—The council will offer Mr. H. J. Beemer a bonus of \$30,000 for the establishment of railway yards and to assist in the erection of the Interprovincial bridge.—The city is without electric lighting, the council having not yet awarded the contract for a civic plant, although tenders were invited some months ago. On account of the pending law suit between the Hull and Ottawa electric companies, the council has been slow in taking action.

HAMILTON, ONT.—The Fire and Water Committee has concurred in the recommendation of the city engineer to construct a main on Hess street, cost \$770, and a 20-inch main on Barton street, cost \$4,500.—The Cataract Power Co. is reported to have finally secured control of the Hamilton Street Railway. This acquisition will in all probability hasten the construction of proposed electric roads to Guelph, Galt, Berlin, St. Catharines and other points, but it is reported that, owing to the large demand for iron, it will be impossible to secure rails before next spring.—W. A. Edwards, architect, has been granted a building permit for alterations to 169 King street west, for S. O. Greening, cost \$2,000.—The city engineer has recommended that another road roller be purchased by the city.

OTTAWA, ONT.—A sub-committee of the city council have recommended that no bonus be granted to the Ottawa Abattoir Co. to establish an abattoir near the city. - James Davidson, chairman Board of Works, invites tenders up to noon July 7th, for construction of asphalt pavements on Wellington and McLaren streets. Specifications at office of city engineer.—The Minister of Justice, in his annual report, points out the necessity of a woman's department in connection with St. Vincent de Paul penitentiary, and recommends the installation of an electric light plant and the introduction of a binding twine industry.-The Doof a binding twine industry.—The Dominion government purposes erecting buildings at Dawson, Selkirk, Bennett, Atlin and other points.—Surveys are being made by Mr. Hibbert, C. E., and others, for a line of railway from Shawville to Portage du Fort, Que.—E. E. Perrault, formerly assistant city engineer, has been instructed to prepare plans for a brick school for the French Committee of the Separate School Board to be built on the Separate School Board, to be built on the site of St. Anne's girls' school.—The Bronson & Weston Co. purpose building a spur line of railway from the Canada Atlantic line to their calcium carbide factory.—Ottawa contractors are figuring on alterations to York street school and new sheds at Kent street school, from plans by Arnoldi & Ewart, architects.—It is stated that a new company has made arrangements to commence the construction of the Lindsay, Bobcaygeon and Pontypool railway, which has been subsidized by the Dominion government. The length will be forty miles. W. C. T. The length will be forty miles. W. C. T. Royd, of Bobcaygeon, H. J. Wickham, of Toronto, and Senator Dobson, of Lindsay, are interested.

MONTREAL, QUE.—The building at 877 Dorchester street has been purchased by the Canadian Society of Civil Engineers, who will erect an assembly hall in the rear, with improved heating, lighting and ventilation. There will be plate glass

windows and skylight, and the three floors of the man: building will be completely refitted and refurnished.—The Dominion Coal Co. is erecting in this city a coal storage shed of steel, 500 feet long and 30 feet wide, to cost about \$100,000. It is understood that the company will shortly erect a similar building in Boston. The city invites tenders up to July 15th for the purchase of the whole or part of an issue of \$222,000 of 4 per cent. forty year debentures.—The Board of Trade have adopted resolutions asking the government to take some action to enable the St. Lawrence route to compete with the American waterways, by providing elevators at Port Colborne, lighting the Welland and St. Lawrence canals by electricity, and equipping the port of Mon-treal with elevators, warehouses and modern facilities for the handling of freight.—Plans are under consideration for additions to the class rooms and labratories of the medical building of Mc-Gill University, estimated cost \$30,000.-Chas. Reeves, architect, is preparing plans for three stores for M. T. Dudevor, to be built at the corner of Notre Dame and Maisonneuve streets. Tenders will be invited this week .- Building permits have been granted as follows : Alterations have been granted as follows: Anterations to four houses, 340 to 346 Craig street, 109 x 30 ft., three stories, brick, cost \$5,000 each, proprietor, L. H. Archambault, architect, T. M. Picard, carpenter, T. Bernard; alterations to dwelling, corner Sherbrooke and Aylmer streets, for J. Joseph, cost \$13,000, J. F. Despatie, architect; four houses, corner Sherbrooke and Shuter streets, for S. K. Macfarlane, three stories, brick, cost \$15,000, David Brown, architect.

TORONTO, ONT.—Mr. E. F. Clarke, M. P., has called the attention of the government to the need of increased accommodation at the post-office in this city.—Messrs. Hodge & Forster, 70 Victoria street, desire to arrange with a contractor with capital to build working men's homes on property near a large factory.—Henry Simpson, architect, has invited tenders for tearing down and removing stores, corner of Broadview ave. and Queen street.—A deputation from the Piano and Organ Manufacturers' Association have memorialized the Board of Control to erect a building on the Exhibition grounds for the exhibit of musical instruments.—It is expected that the city council will call for tenders immediately for the proposed St. Lawrence market improvements. This work, previously referred to in these columns, will cost \$150,000, the plans being by J. W. Siddall, architect.—It is proposed to construct a 24-foot pavement on St. Patrick street, from Spadina ave. to Denison ave., cost \$8,100, and a cement

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concrete sidewalk on Wilcox street, from Huron street to Spadina ave., cost \$961. -A petition is in circulation for an asphalt pavement on Spadina ave., from Knox College north to Bloor street.—Building permits have been granted as below: D. R. Wilkie, two-storey and attic brick dwelling, east side Homewood ave., near Wellesley, cost \$2,500; Wm. Wilson, four-storey brick factory, 80 Wellington street west, cost \$4,000; G. S. McConkey & Son, three-storey brick addition to restaurant, 31 and 33 King street west, cost \$18,000; John McIvor, three-storey brick store and dwelling, 1458 Queen west, cost \$1000; Geo. Manton. one-storey rough. \$3,000; Geo. Manton, one-storey rough-cast addition to 101 and 103 Elizabeth street, cost \$800.—Plans for the steam heating of Dufferin county court house and gaol are on view at the office of the John Ritchie Plumbing & Heating Co., Adelaide street east.—The trustees of the Macpherson estate, comprising Cresent road between Yonge street and Rosedale road, have a number of houses under con-templation, designed by Mr. S. H. Townsend, architect. Contracts for five have already been given. The trustees have a special scheme on foot for roadway, boulevards, etc.

WINNIPEG, MAN.—Plans have been prepared by J. Greenfield, architect, for three houses on Cumberland ave., fronting Central Park, stone foundation, brick front walls, frame structure; also for solid brick and stone hotel in the town of Yorkton, containing over 30 bed rooms. S. Hooper & Son, architects, have just called for tenders for a new presbytery for St. Mary's church, and for large store and brick building. — Arthur Stewart, manager of the Manitoba Trusts Co., is taking tenders this week for grading a road.—J. H. G. Russell, architect, will award contracts this week for a brick and frame residence on Roslyn road.—Walter Chesterton, architect, has in hand improvements to a building on Main street adjoining the Imperial Bank.—The council will advertise for tenders for 400 tons of asphalt.—The cost of a block pavement on Notre Dame ave., from Nena street to Brookside cemetery, is estimated by the city engineer at \$32,000.—It has been de-cided to construct the sewer on Toronto and Ellis streets by day labor; estimated cost, \$7,154.—Tenders are asked by J. D. McArthur up to 28th inst. for erection of brick and stone warehouse, corner Princess and McDermott streets, from plans by J. H. Cadham, architect.—The manby J. H. Cadham, architect.—The management of the Merchants Bank are cost \$800,000. It is also stated that the plans include a subway to avoid the necessity of vehicles crossing the tracks on Main street.—D. S. Curry, city solicitor, invites proposals up to July 28th, for the purchase of \$150,463.70 4 per cent. local

improvement debentures and \$60,000 3½ per cent. electro light debentures.— The council has given notice of its intention to construct the following works. Block pavement on Main street, between William and Elgin ave., cost \$1,460, and on Main street, south of Portage ave., cost \$850; macadam pavement on Lombard street, cost \$1,000; Osborne and Pembina streets, cost \$9,850; Bell ave... cost \$994; asphalt pavement on Mc-Dermott ave., cost \$1,650.

#### FIRES.

Residence of Dr. J. W. N. Baker at Centreville, Carleton County, N.B.; insurance \$4,500.—The Tichbourne House at Napanee, Ont., owned by Mrs. Davy.
—Shingle mill of the Cambridge Lumber Co. at McDonnell's Siding, Ont., three miles west of South Indian; loss \$3,000, miles west of South Indian; no insurance. It is the intention to rebuild. — Residence of A. Speers at Griswold, Man., totally destroyed.—About thirty-five houses in the village of St. Raymond, Que., were burned on the 25th inst., at a loss of \$100,000.—Shingle mill of Duff Bros. in Beckwith, Ont.—Grist mill of John Tooze at Mount Vernon, Ont.; loss \$5,000, partially insured.

#### CONTRACTS AWARDED.

ST. JOHNS, QUE.—Residence for W. B. Smith: Neil & Kent, contractors.

BRANTFORD, ONT .- Improvements to court house: Schultz Bros. Co., \$1,063.

VANCOUVER, B.C.—Drill hall: Viau & Lachance, of Hull, contractors, price \$70,000.

STRATFORD, UNT.—Store for J. A. Duggan (H. J. Powell, architect): Masonry, E. H. Causey; carpenter work, J. L.

Young; pillars and metal ceilings, plate

glass, etc.

New Westminster, B. C.—Central
Methodist church: Smith & Marshall, contractors, price about \$7,000.

ST. JOHN, N. B.—Hot water heating system in F. E. Hannington's dwelling: P. Campbell & Co., contractors.

LENNOXVILLE, QUE.—Sewer pipe for the town: C. B. White, representing Hamilton Sewer Pipe Co., successful tenderers.

BRUSSELS, ONT.—The Royal Artificial Stone Paving Co., of Guelph, have been awarded the contract for laying 34,000 feet of concrete sidewalk, at the price of to cents per foot.

BERLIN, ONT. - Steel bridge over Conestego river at Wallenstein: Superstructure, Hamilton Bridge Co.; stone work, Rowan & Elliott Co., St. Catharstone

work, Rowan & Elliott Co., St. Catharines, \$7.15 per cubic yard.

WINNIPEG, MAN.—Council has accepted the following tenders for supplies: One 100 h.p. engine, E. Leonard & Sons, London, \$1,246; shafting, pulleys, etc., Dodge Manufacturing Co., Toronto, \$1,700; belting, Sadler & Haworth, Toronto, \$4.90 per lineal foot for 42 inches wide, and \$1.45 for 14 inches; wiring city hall, H. Ross, \$319.44; electrical supplies, Canadian General Electric Co., Toronto, \$140.20.

FERGUS, ONT.—The county council have awarded the contracts for bridges at Fergus and Bosworth as follows: Fergus

Fergus and Bosworth as follows: Fergus superstructure, Hunter bridge -– Steel Kincardine, \$1,881. Bros., bridge—Steel superstructure, Hamilton Bridge Works, Hamilton, \$1,350; con-crete abutments, Smeaton & Patterson, Inglewood, \$5.60 per cubic yard. Tenders

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were received for steel superstructures from the King Bridge Co., Cleveland, Ohio; Imperial Bridge & Iron Works, Montreal, the Hamilton Bridge Works Co., Hamilton, and Hunter Bros., Kin-Co., Hamilton, and Flunter Bros., Kincardine; and for the stone or concrete abutments, from Rowan & Elliott, St. Catharines; Smeaton & Patterson, Inglewood; the Gueiph Pavement Co., Guelph; Fallows & Lewis, London; George Bulmer, Elmira, and Otto Rappolt, Morreston.

TORON TO, ONT.—The Property Committee of the Public School Board last week awarded contracts for repairs to schools as awarded contracts for repairs to schools as follows. Carpenter work—A. Coyell, Bathurst st., \$225; Dewson st., \$393; Huron street, \$375; Rose avenue, and Rosedale, \$209; Phoebe street, \$430; Borden street and Lansdowne, \$235. Frank Armstrong, Bolton avenue, \$94; Brant Street, \$249; Cottingham street, \$225; Dufferin street, \$109; George street, \$135; Niagara street, \$286; Park, \$199; Victoria street, \$586; Clinton street and Grace street, \$127. I. W. Butchart, Brock avenue, \$75. M. linton street and Gueco .... \$75. M. W. Butchart, Brock avenue, \$75. M. J. W. Butchart, Brock avenue, \$75. M. Huchinson, Church street, \$328; Duke street, \$475; Hamilton street, \$138; John street, \$219; Parliament street, \$100; Sackville street, \$487. T. Phillips, Crawford street, \$223; Dovercourt, \$201; Manning avenue, \$145; Palmerston avenue and Perth avenue, \$155. A. Batho, Givens street, \$95; Orphans' Home, \$96; Wellesley, \$183; Fern avenue and Howard, \$207; Parkdale, Oueen Victoria and Shirley street, \$324. Oucen Victoria and Shirley street, \$324.

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T. Cratchley, Gladstone avenue, \$264; Louisa street and McCaul, \$363. W. Williamson, Leslie street, \$175; Morse street, \$243. W. Moss, Ryerson, \$265. Masonry—R. Clayton, 13 schools, \$620; J. Bulley, 13 schools, \$388. Painting—J. A. Berridge, Manning avenue, Niagara street, Parkdale and Queen Victoria, \$163; W. Rycroft, Leslie street, \$22. Plumbing—L. Legrow, Borden street, Givens street and Niagara street, \$114; J. Sherlock, Parkdale and Queen Victoria, \$157. Roofing, H. Williams & Co., Bathurst street, \$90; G. Duthie & Son, Brock avenue, \$75; W. D. Hutson & Co., Mc-Caul and Sackville street, \$63. White-washing—E. Warren, 32 schools, \$419. Metal ceilings—Metallic Roofing Company, Brant street, Clinton street and Cottingham street, \$114. Grading and sodding—J. Peeler, 11 schools, \$47. J. Taylor's tender of 13 cents per square yard for liquid slate blackboards, and James Ivory's tender for unsmith's stove W. Rycroft, Leslie street, \$22. Plumb. James Ivory's tender for tinsmith's stove and furnace work, were accepted. The contracts will amount to about \$1,000 and

\$200 respectively.

MONTREAL, QUE.—McKenzie & Mann have awarded to Ryan & McDonnell the contract to build 60 miles of the Inverness railway, from Tupper Point, on the Strait of Canso, northward, and including grading, track laying and ballasting; thirty miles to be completed this year.—Hutchison & Wood, architects, have awarded contracts for the following work: School, 3 stories, corner Oliver and Westmount avenues, Westmount-Masonry, Heggie & Stewart; carpentry and joinery, J. Shearer & Co.; blinds, J. W. Reid; plumbing, J. W. Hughes; heating,

Smead, Dowd & Co.; brickwork, W. Lavers; plastering, Knott & Gardiner, Westmount; steel work, Dominion Bridge Co. Two warehouses on Craig street for J. H. Garth, five stories—Masonry, Wil-J. H. Garth, five stories—Masonry, Wilson Bros.; carpentry and joinery, J. Shearer & Co.; plumbing and heating, Garth & Co.; brickwork, Wilson Bros.; steel work, Garth & Co. Warehouse, corner Victoria square and Craig street, for J. McIntyre, 8 stories—Masonry, Wighton, Morrison & Co.; carpentry and tonery. Paton. Laird & Son; plumbing. joinery, Paton, Laird & Son: plumbing, J. Atchison; heating, Garth & Co.; brickwork, Wighton, Morrison & Co.; plastering, John McLean; steel work, Dominion Bridge Co.-W. M. Perrin, architect, has awarded contracts for two houses on Columbia avenue, Westmount, as follows: Masonry and brickwork, Hood & Co.; Masonry and brickwork, Hood & Co.; carpentry and joinery, D. Long; plumbing and heating, John Gordon; steel work, D. Long; Henderson Bishop, proprietor.—J. A. Morin, architect, has accepted tenders as follows for two buildings cepted tenders as follows for two buildings on St. Lawrence street, St. Louis du Mile End: Masonry, J. Charest; carpentry and joinery, Wilf. Mongeau; blinds, Marier & David; plumbing, Marier & David; brickwork, J. A. Legault; plastering, I. Gosselin; painting & glazing, W. D. Rufrange. A. Bourdon, proprietor.—Gamelin & Huo, architects, have let the contract for a house on Grand Allee, Quebec, 3 stories, to M. Gosselin; prop., Hon. Judge Choquette.—R. P. Barnes, Board of Trade building, has let contracts as of Trade building, has let contracts as below for alterations to synagogue on McGill street: carpentry, Bacon & Scott; painting, E. T. Houghton; masonry, C. O. Lamontague.

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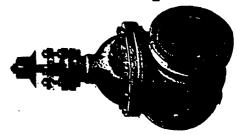
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# MUNICIPAL DEPARTMENT

### NOTES ON SPECIFICATIONS FOR CAST IRON AND GAS PIPES.\*

C. A MRISSNER, Londonderry, Nova Scotia.

Another point which is equally uncalled for is the weight limit. You will note that the specification submitted calls for a variation of 5 per cent., which is a fair, honest limit, yet we constantly meet with those which allow only 2 per cent. up or sometimes 2 to 2½ per cent. variation up or down. This is, perhaps, practicable in a large works having a wide scope of customers of all different descriptions, but for the work that is demanded in these provinces, it is unjust, unfair, and unwise, as it forces the manufacturer to charge a higher price or to loose on a large per-centage of the pipe made for this particu-lar town. Every engineer who has any practical knowledge of manufacturing castings or pipe, knows how difficult it is to cast such work within such narrow limits; and where is the use of it? What difference does it make to the town to give the pipemaker a little more leeway, when the average is sure to be the same, as there will always be as many pipe above as below the average figure? And surely a few lbs. weight more or less with the average water pressure of the a small systems, is not going to make the slight-est practical difference in strength, par-ticularly on a fairly heavy pipe. If a town goes in too closely for economy and orders too light a pipe, then it does not want the variation below what is probably the safety limit, but then it should allow a little more leeway upwards. This thing always reacts on the town, as it will ulti-

\* Paper Read before Canadian Mining Association.

mately have to pay a higher price for such unnecessary restrictions.

Another point that I would warn against is putting in too small a pipe for economy's sake. This is a very natural error and one frequently indulged in by small towns, and yet it is one that has invariably caused trouble and ultimately much greater expense to the citizens than would have been the case had a larger pipe been put in at first. A town should always look ahead. It is not only the present or certain individuals that have to be taken into account, but the general good, and I think there is a tendency to exaggerate individuality and to forget that it should subserve to public good, for if not, then that which is praised as strong individuality and insistence on personal rights, may become a nuisance and a serious detriment to the public good.

ment to the public good.

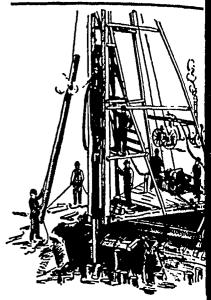
This question of too small pipe at the start is beginning to be fully appreciated, and when carefully considered will no doubt be avoided by future systems.

The question of testing pipe is also one

The question of testing pipe is also one that frequently is misunderstood by towns and engineers, and hence looked upon with suspicion. Pipe manufacturers, as a rule, try to honestly give their parons good and reliable pipe; it is their interest to do so. For their own protection, therefore, they adopt a certain system, arrange all their labor and appliances accordingly, and in any well managed plant this system is followed out until it becomes mere matter of routine. So it is with testing pipe. There is a certain number of men employed to clean, tar, test and weigh the pipe. They have a certain routine to go through, and there is no reason for them to shirk any part of the work, in fact they must follow the various steps rigidly or they at once confuse their work of the department. All the work is recorded and regulated so that it soon becomes an almost automatic action to put the pipe into the hydraulic press, apply proper pressure, tap the pipe with the hammer and take it out. Each man has his station, and their fellow-labourers would see to it that each one did his particular share of the work, aside from the head

tester's, and superintendent's, constant supervision. Besides, the men picked out for testing are usually employed for their special rehability.

(To be Continued.)



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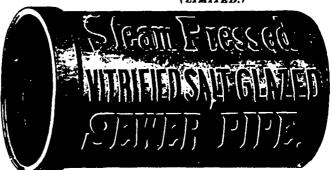
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n purple	8 50	7 00	800
u black	7 50	,	6 50
Tena Cotta Tile, per sq Orramental Black State Roofing	20 00		25 00
Orrationtal Black State Roofing	7 A 80		6 60
CEMENT, LI	ME, etc.		
Portland Cements -			
German perili 2	90 310	2 55	2 65
London " 2	95 3 00	2 25	2 45
London 2 Newcas le 2 Joseph Bra Portland 3	70 3 CO	1 95 2 70	2 80
" Livekethen	104 724	2 75	200
North's "Condor" English, artificial, per bbl	95 3 10	265	2 80
English, artificial, per bbl :	85 300	2 35	2 45
Belgian, natural, per bbl. : Canadian, artificial, "	50 275	2 00	2 20
Canadian, artificial, ":	85 3 20	2 70	2 70 2 25
Parian "	5 2 5 2 5	5 75	5 75
Superfine "	125 710	8 25	900
"Karlstadt" (German) 3 "Germania" (German) 3	05 3 25 05 3 25	2 75	2 90
"Germania" (German) 3	oi 3 25	2 75	2 90
"Rooster" (Belgian) "Keystone" (Belgian)		2 (5	2 20
"Apvil" (Belgian)		1 95	2 05
"Burham" (English) 2	95 3 00	2 25	
Hydraulic Cements.—		•	
Thorold, per bbl	1 50		z 65
Queenston, !! Napanee, !!	1 50 1 50	1 50	2 60 2 50
Lieli	- 20		± 20

<u>'</u>	BIRE CLAY	GO01	28					
		Toronto.	Montreal.					
	Keene's Coarse "Whites"	K 50 600	500 £ 60					
	Fire Bricks, Newcastle, per M Scotch	30 00 35 00	16 00 21 (0					
	" Scotch "	30 00 35 00	19 00 EI CO					
	Lime, 100 lbs., Grey	25						
	Plaster, Calcined, N. B	30	30					
	" N.S	200	2 50					
	Hair, Plasterers', per bag	80 100	1 50					
	HARDW							
	The following are the quots at Toronto and Montreal:		lers for nails					
	at Toronto and Montreal:							
	Cut nails, sod & 6od, per keg Steel 11 11 11	2 25	z 85					
	Steel 11 11 11 11	2 25	1 95					
	cut nails, yence a	ND CUT SPIK	ES.					
	40d, hot cut, per 100 lbs	2 15	± 85					
	io to 12d, ho: cut	2 25	1 95					
	8d, 9d,	2 30	2 60					
	001,701	2 45	2 15					
	3d, " "	2 55 2 80	# 75 2 85					
	ad. " "	3 15	<b>2 8</b> 5					
	Cut spikes, to cents per keg	advance.	- •3					
	Steel Nails, 100, per keg e.	ttra.						
	Wire nails, 250 base price.							
	Iron P	ipe:						
		- 6c.	6c.					
	Iron pipe, 1/2 inch, per foot	7	7					
		834	834					
		(3	12					
		17	17					
	11 11 136 11 F .	24	24					
	11 1 2 11 11 11	. 43	30 <b>43</b>					
	Toronto, 65 per cent. disco	int.	43					
	Montreal, 70 per cent. dis-	count.						
	Load P	ipe:						
	Lead pipe, per lb	7C.	25 per					
	Waste pipe, per lb	734.	25 per cent. dis.					
	Galvanico	I Iron:						
	Adam's-Mar's Best and Que		d Opollo:					
	16 to 24 guage, per lb	4%c. 4%c.						
	26 guage, "	4%	4%					
	20	5 5%	4%					
	Gordon Crown—	.17 .17						
	16 to 24 guage, per lb	4% 4% 4% 4%	424					
	26 guage, "	12 7	10					
	Note.—Cheaper grades about	Xc. per ib. le	. T/4					
Structural Iron:								
	Steel Beum, per 100 lbs	= 75	20					
	"channels. "	2 85	3 30					
	" angles. "	<b>2</b> 50	* 63					
	" tees, "	<b>z</b> 80	# 65					
	ff plates ff	<b>= 55</b>	2 00					
	Sheared steel bridge plate		₹ 30					

CORRECTED UF TO JUNE 97TM.