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# ANADIAN CONTRACT RECORD

A WEEKLY JOURNAL  
OF THE PUBLIC WORKS AND MUNICIPAL PROGRESS

EVERY

PUBLIC WORKS • TENDERS •  
ADVANCE INFORMATION •  
AND MUNICIPAL PROGRESS

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. 10.

JULY 12, 1899

No. 24

## THE CANADIAN CONTRACT RECORD, PUBLISHED EVERY WEDNESDAY

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

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so, give both old and new address. Notify the  
publisher of any irregularity in delivery of paper.

## To Contractors

Tenders will be received until JULY 18TH, for the  
several works required in connection with the erection  
of a

### LARGE OFFICE BUILDING

to be built on the northwest corner of Queen and  
Terauley Streets, Toronto, for Alexander Manning,  
Esq., in accordance with plans and specifications prepared  
for that purpose, which may be seen and all other  
information obtained at the office of the undersigned.

E. J. LENNON, Architect.

## TENDERS FOR DEBENTURES

Sealed tenders will be received by the undersigned  
until Tuesday, the twenty-fifth day of July next, at six  
o'clock p.m., for Four Thousand Dollars Town of  
Paraboro DEBENTURES, payable thirty years,  
interest four per cent., payable here half yearly.

J. H. UPHAM,  
Town Clerk and Treasurer.

Paraboro, N.S., June 25th, 1899.

## CITY OF FREDERICTON, N.B.

## DEBENTURES FOR SALE

Sealed tenders will be received at City Clerk's Office,  
Fredericton, N.B., up to noon on TUESDAY, THE  
16TH JULY, INSTANT, for the purchase of the  
following Debentures, viz:

\$6,000.00 "FREDERICTON CITY DEBT DE-  
BENTURES," bearing date the 20th July, A.D. 1899,  
payable in eight years from date of issue, with coupons  
for interest at the rate of four per cent per annum,  
payable half-yearly.

\$14,000.00 "FREDERICTON SHOE FACTORY  
BONUS DEBENTURES," payable in thirty annual  
instalments, with coupons for interest at four per cent.  
per annum, payable semi-annually.

The above debentures are issued under the authority  
of Acts of Legislature of the Province of New Brun-  
swick.

By Order of the City Council,

CHAS. W. BECKWITH, City Clerk.

Dated July 5th, 1899.

## TENDERS

Tenders will be received by the undersigned up till  
noon, JULY THE 14TH, NEXT, for Tile Flooring,  
Plumbing, etc., required in the remodelling of Grand  
Central Hotel of St. Thomas, Ont. Specifications and  
all particulars can be seen at the office of Architect,  
over 352 Talbot Street, St. Thomas, Ont.

The lowest nor any tender not necessarily accepted.

N. R. DARRACH,  
Architect.

St. Thomas, Ont., July 5th, 1899.

## City of Brantford

## NOTICE TO CONTRACTORS

Sealed tenders, addressed to W. G. Elliott, Esq.,  
Chairman of the Board of Works, in care of the City  
Clerk, Brantford, Ont., will be received till 12 o'clock,  
noon, on

TUESDAY, JULY 18, 1899,

for about 54 cords of Rubble Stone, average thickness  
4 inches, no stone to contain less than one-half a cubic  
foot.

And 27 cords of Rubble Stone, average thickness 6  
inches, no stone to contain less than one cubic foot  
F.O.B. cars at Brantford.

Specifications may be seen at the City Engineer's  
office, Brantford.

A marked cheque, payable to the order of the City  
Treasurer, to the amount of 5 per cent. of the contract  
price, must accompany each tender.

The lowest or any tender not necessarily accepted.

T. HARRY JONES, M.C. Soc. C.E.,  
City Engineer.

Brantford, July 12, 1899.

## Tenders Wanted

## WATERLOO WATERWORKS

Proposals will be received by the Town of Waterloo,  
Ont., for the construction of Pump House and Smoke  
Stack; Pumping Well, Pumps and Boilers, and a  
separate bid for a Stand Pipe or Elevated Water  
Tower. Those tendering for an Elevated Tank will  
furnish plans and specifications for one with capacity of  
100,000 U.S. gallons, with top of tank 140 feet above  
ground.

Bids will be received for the whole work or for each  
part thereof.

Plans and specifications can be seen at the office of  
the Town Clerk, on and after July 12th, 1899.

Each bid must be accompanied by a certified cheque,  
payable to the Town of Waterloo, or order, for an  
amount equal to five per cent. of the amount of the bid.

Bids must be enclosed in a sealed envelope, marked  
"Proposals for Waterworks," and addressed to David  
Bean, Chairman of Fire and Water Committee.

Bids will be received up to 6 o'clock p.m. of July  
17th, 1899.

The right is reserved to reject any or all bids.

DAVID BEAN,  
Chairman Fire and Water Committee.

GEO. DIEBEL, Mayor.

Waterloo, July 8th, 1899.

## STRATFORD SEWERS

Sealed tenders, addressed to the Chairman of Sewer  
Committee, will be received until 6 p.m. on

Friday, the 14th Day of July, 1899,

for building about 6,000 feet of SANITARY SEWERS,  
including Manholes, House Drains to Street Line, etc

Plans and specifications and forms of tender can be  
seen at the office of the undersigned.

W. F. VANBUSKIRK, A.M. Can. Soc. C.E.,  
City Engineer, Stratford

## City of Brantford

## NOTICE TO CONTRACTORS

Sealed tenders, addressed to W. G. Elliott, Esq.,  
Chairman of the Board of Works, in care of the City  
Clerk, Brantford, Ontario, will be received till 12  
o'clock noon, on

Saturday, July 22nd, 1899,

for the construction of

Sec (a) About 29,000 square feet of concrete sidewalk.

Sec (b) About 10,000 square feet of plank sidewalk

Separate tenders required for Sections (a) and (b).

Specifications may be seen and form of tender  
obtained at the City Engineer's Office, Brantford

A marked cheque payable to the order of the City  
Treasurer, to the amount of 5 per cent. of the contract  
price, must accompany each tender.

The lowest or any tender not necessarily accepted

T. HARRY JONES, M. C. Soc. C. E.,  
City Engineer.

Brantford, July 12th, 1899.

## Notice to Contractors

### ENLARGEMENT OF ISOLATION HOSPITAL

Separate tenders, addressed to the undersigned, will  
be received through registered post at the City Clerk's  
office, up to noon of THURSDAY, JULY 20TH, 1899,  
for each of the following works and services in connec-  
tion with the enlargement of the Isolation Hospital: -

1. Excavation, Masonry and Brickwork.
2. Cut Stone Work.
3. Lathing and Plastering
4. Painting and Glazing
5. Plumbing, Gas Fitting and Electric Wiring.
6. Slatting and Galvanized Iron Work.
7. Steel and Cast Iron Work.
8. Steam Heating and Ventilation.

Plans and specifications may be seen, and forms of  
tender, with endorsed envelopes, together with all in-  
formation, obtained at the office of Mr. George R.  
Harper, Architect, Room 5, Canada Life Building,  
King Street West.

Each and every tender must be on the form supplied  
by the architect, and be accompanied by a marked  
cheque, made payable to the order of the City  
Treasurer, or cash deposit, equal to 2 1/2 per cent. of the  
amount of the tender, which deposit will be forfeited to  
the city in the event of the party whose tender is  
accepted failing to execute the necessary contract and  
bond.

The lowest or any tender not necessarily accepted

JAMES CRANE (Chairman),  
Local Board of Health.

City Hall, Toronto, July 12th, 1899.

**TENDERS WANTED**

Up to JULY 22ND INST., inclusive, for the several trades required for the completion of an Oddfellows' Hall in Dunnville, Ont. Plans and specifications at J. H. SMITH'S, Dunnville.

**TENDERS WANTED**

Sealed tenders, marked "Tenders for Sidewalks," will be received up to 8.30 p.m. on JULY 24TH, for the construction of about 45,000 square feet of

**CEMENT CONCRETE WALKS**

in Dunnville, Ont. Specifications may be seen at the office of the undersigned on and after the 14th inst. Tenders to be accompanied with a marked cheque for \$500, which will be returned to the unsuccessful tenderer. Contractors will be required to furnish bids. No tender necessarily accepted. Address

J. W. HOLMES,  
Clerk of Dunnville.

**To Contractors**

Sealed bulk or separate tenders will be received by the undersigned up to 4 p.m. on FRIDAY, JULY 21ST, 1899, for the several works required in making additions and alterations to the Kent County Gaol, including Steam Heating, Plumbing, Ventilation, Drainage, Mason Work, Carpenter Work, Slating, Steel Cages, etc.; also heating the Gaoler's Residence by steam, according to plans and specifications prepared by T. J. Rutley, Architect, Chatham, Ont.

Plans and specifications may be seen at the office of the Architect.

Tenders must be accompanied by a certified cheque or ten per cent. of the amount of tender.

The lowest or any tender not necessarily accepted.

J. C. FLEMING,  
Clerk County Kent.

Chatham, July 10th, 1899.

**Electric Light System****TOWN OF LIVERPOOL, N.S.**

Sealed tenders, marked "Light Tenders," will be received by the undersigned up to noon on FRIDAY, JULY 23RD, 1899, for the installation of an

**Arc and Incandescent Light Plant**

for the Town of Liverpool, according to specifications on file at the office of the Town Clerk. No tender necessarily accepted.

D. C. MULHALL (Mayor),  
Chairman of Water and Light Committee

Liverpool, N.S., June 27th, 1899.

**WANTED.**

The publishers will pay 25 cents each for a limited number of copies of the February number of the CANADIAN ARCHITECT AND BUILDER. Address, the C. H. Mortimer Publishing Co., Confederation Life Building, Toronto.

**CONTRACTS OPEN.**

SUSSEX, N.B.—A condensed milk factory may probably be built here.

WALLACEBURG, ONT.—The council have selected a site for proposed fire hall.

PRESTON, ONT.—The council will spend \$4,500 on pavements and bridges.

SIMCOE, ONT.—Simcoe county council has voted \$2,000 for a gaoler's residence.

ACTON, ONT.—Excavating is in progress for new buildings for Beardmore & Co.

BARRIE, ONT.—The town council has decided to borrow \$25,000 to meet current expenses.

BRACEBRIDGE, ONT.—Plans of new court house to be built here are on view at the sheriff's office.

DURHAM, ONT.—The Furniture Company will shortly ask for tenders for erecting proposed factory.

CHATHAM, ONT.—J. L. Wilson & Sons, architects, are taking tenders on residence for W. J. Twohey.

THURSO, QUE.—The township council of Lochber have decided to build a number of roads and bridges.

SARNIA, ONT.—Plans have been prepared and tenders will be invited at once for an addition to the Fourth ward school.

ST. LAMBERT, QUE.—The town council has decided to purchase the old Protestant school property and convert it into a town hall.

DUNDAS, ONT.—On Friday, July 23th, the ratepayers will vote on a by-law to raise \$3,800 by debentures for building granolithic and plank walks.

VICTORIA, B. C.—Ald. P. C. MacGregor has accepted the plans of A. C. Ewart, architect, for a block to be erected at corner of Broad and View streets.

SMITH'S FALLS, ONT.—The council has made application to the Provincial Board of Health for approval of plans for new waterworks and sewerage systems.

RENFREW, ONT.—G. W. McDonald desires tenders by 15th inst. for building brick addition to public school and a wood and glass partition in High school.

YARMOUTH, N.S.—The town clerk has been instructed to advertise for tenders for construction of engine house, to be brick, two stories, with tower and basement.

STRATHMORE, ONT.—Roxborough township council is about to undertake about \$10,000 worth of drainage work. T. H. Wiggins, of Cornwall, engineer in charge.

OTTAWA EAST, ONT.—There is a project on foot to secure a waterworks and sewerage system by making connection with the Ottawa system. The cost is estimated at \$25,000.

FRANKFORD, ONT.—The Trent River Paper Co., with capital stock of \$50,000, has been incorporated, to manufacture pulp, paper, etc. J. S. Lovell and Wm. Bain, of Toronto, are interested.

HULL, QUE.—Mr. Farley, city engineer, has reported the cost of extension of waterworks system to be \$3,200. A by-law authorizing the expenditure will be submitted to the ratepayers.

ARNPRIOR, ONT.—J. P. McLaren, architect, of Ottawa, has submitted to the Arnprior Rink Co. plans for their proposed rink.—The C.P.R. are taking steps to commence their new station.

PORT ARTHUR, ONT.—Estimates are being made of the cost of the Current river power project. It is said that the work will cost about \$5,000, and will include four turbines of 75 h. p. each.

NIAGARA FALLS, ONT.—Mr. Suess, architect, has prepared plans for the new building to be erected here by the Ontario Silver Co. The building will be of brick, and is to be completed by August 15th.

WINDSOR, ONT.—E. Girardot & Co. have purchased the sanitarium property and the Cameron estate, and are making arrangements for the construction of wine vaults, tunnels, a casino and wharfage.

TORONTO JUNCTION, ONT.—Negotiations are under way for purchase of the vacant lot on south-west corner of Dundas and Keele streets. Should the deal go through, a fine business block will be erected.

KINGSTON, ONT.—Arthur Ellis, architect, is this week taking tenders for additions and alterations to store and warehouse for A. F. Chown.—Contracts have not yet been awarded for restoring the Oddfellows' hall.

ALMONTE, ONT.—A by-law to raise \$30,000 by debentures for the purpose of installing a civic electric light plant has been given its second reading in council. The ratepayers will vote on the question on September 25th.

ORILLIA, ONT.—The Engineering Contract Co., of New York, through their Canadian agency, have been figuring on the proposed power transmission scheme, with a view to taking over the contract

abandoned by the Central Construction Co.—The council are still in negotiation with the Imperial Wall Paper Manufacturing Co., of Toronto, regarding the erection of a factory here.

ST. JOHN, N.B.—R. C. John Dunn, architect, is preparing plans for temperance hall at Millerton, Northumberland county.—The Cushing Sulphite Fibre Co. want tenders by 17th inst. for erection of buildings and chimney.

LONGUEUIL, Que.—The council is considering the question of granting a bonus to Vinette & Co., of Montreal, to establish a boot and shoe factory here. They agree to erect a large building and put in machinery to the value of \$100,000.

FORT WILLIAM, ONT.—Mr. Willis Chipman, C.E., of Toronto, will make his report on a sewerage system for the town at an early date.—The C. P. R. are about to undertake improvements to their station here. One of the elevators will also be improved.—E. S. Jennison, C.E., hopes to commence work at an early date on his power scheme.

HALIFAX, N. S.—Herbert E. Gates, architect, has prepared plans for two shops, with lodge rooms above, to be built on Water street, Dartmouth, for Allan McDonald. Same architect is superintending the erection of a large residence on Young ave., this city, for F. H. Green, from plans prepared by a firm of Toronto architects, cost about \$7,000.—A movement is on foot looking to the erection of a new school building on Summer street.

KAMLOOPS, B.C.—Mr. Willis Chipman, C.E., of Toronto, has reported to the council regarding the waterworks system, and has also made recommendations for improvements thereto. He recommends that a new power house be erected, with brick walls on stone foundation, laid in Portland cement mortar to above high water, the whole including mains, reservoir, valves, etc., to cost about \$30,000. Mr. Chipman also points out the necessity of a proper sewerage system.

PORTAGE LA PRAIRIE, MAN.—Plans are being prepared by H. S. Griffith, architect, of Winnipeg, for a large hardware store, solid brick, two storeys, for T. & W. Millar, also for extensive alterations to the old post office building for the municipality.—Tenders are being called for large brick store 32 x 85 ft., two storeys high, for D. McKillop, furniture dealer, also for a solid brick residence for Mr. John Ferriss, on Portage Plains, for which H. S. Griffith, of Winnipeg, is architect.

WELLAND, ONT.—Ellis & Clarke, architects, of Toronto and Niagara Falls, have been authorized to prepare plans for a new school and a town hall. The school will have eight class rooms and will cost, exclusive of plumbing, about \$9,000.—A by-law to raise \$1,453 by debentures for the construction of a sewer on Burgar street has passed its third reading in council.—The Street Committee has been instructed to engage an engineer to lay out proposed concrete walks.

HAMILTON, ONT.—Building permits have been granted as follows: John Billings, three-story brick store on James street, cost \$8,000; R. & J. Poag, alterations and additions, 41 Macnab street north, for J. G. Davis, cost \$2,000; C. F. Webb, brick addition to Canada Screw Co.'s factory, Wellington street north, cost \$1,400; W. A. Edwards, alterations to Collegiate Institute, cost \$2,000.—J. W. Jardine, county clerk, invites tenders up to noon to-day (Wednesday) for cement work. Specifications at office of W. W. Lachance, architect, court house.

STRATFORD, ONT.—W. F. VanBuskirk, city engineer, has been instructed to ask for tenders for an iron and wooden

bridge between Stratford and North East-hope. Mr. Van Buskirk has submitted to council the following estimate for proposed bridge on St. John street, Stone abutments, \$1,600; putting in roadway, \$150; steel superstructure, \$800; debentures to provide funds will probably be issued. The Sewer Committee will recommend to council that a small sewage disposal plant be put in, consisting of screening tank 25 x 5 ft., and two coke filter beds 25 x 60 ft.

WINNIPEG, MAN.—Robert Watson, Minister of Public Works, has taken tenders on the erection of chapel and recreation hall at the Asylum for the Insane, Selkirk.—Joseph Greenfield, architect, is taking tenders this week for alterations to five pairs of house.—The city has taken tenders on the construction of sewers.—It is expected that work will be commenced shortly on the proposed Northern Pacific extensions in the Portage district.—The Manitoba Public Works Department will shortly call for tenders for the excavation of a number of drains in St. Andrew's municipality; amount of earth excavation, 5,500 cubic yards.—Plans are being prepared by H. S. Griffith, architect, for solid brick residence at Portage la Prairie for J. R. McDonald, also for a bank at Minnedosa for V. H. Pickering.

LONDON, ONT.—Over fifteen miles of stone walks will be constructed this year.—A special committee appointed to consider the most suitable method of sewage disposal for the city presented its report at last meeting of council. This report favors the septic tank system, and recommends that the whole of the system be not constructed at once, but that tanks, beds, etc., for one half of the daily flow be constructed immediately. It is further recommended that before plans are prepared and tenders called for that a committee should visit Mountain Grove and Champaign, with a view of obtaining all necessary information on the subject.—The Board of School Trustees have decided to take legal proceedings to compel the council to issue debentures for \$20,000 for school purposes.—H. C. McBride, architect, wants tenders by 15th inst. for erection of addition to double brick residence.—The Board of Education desires tenders by 14th inst. for kalsomining and painting.—A number of London capitalists have applied to the council for a franchise for a street railway.

TORONTO, ONT.—E. J. Lennox, architect, invites tenders up to Tuesday, 18th inst., for erection of large office building, north-west corner Queen and Terauley streets, for Alexander Manning.—The Board of Management of the Young Women's Christian Association have decided to finish the top story of the building at 18 Elm street at once.—The Ontario Department of Public Works invites tenders up to July 15th, for the construction of a court house at Bracebridge and large chimney to boiler house of Ontario Agricultural College, Guelph.—Dr. Sheird, Medical Health Officer, recommends that the proposed smallpox hospital be erected in rear of the Isolation hospital.—The city wants tenders by 19th inst. for the annual supply of oil, and for lumber for repairing bridges; also, until the 14th inst., for erection of machinery building in the Exhibition grounds, from plans by Mark Hall, architect, 61 Victoria street. The building will be frame, with brick foundations, brick piers for inside supports, galvanized iron roof and outside walls; cost, \$16,000.—Property owners on William street have petitioned against a cedar block pavement.—The council will construct an asphalt pavement on King street, from Simcoe to Spadina, cost \$24,420, on Madison ave., Bloor to Dupont, cost \$24,820, and on Dovercourt road, Dundas to Churchill, cost \$6,470.

OTTAWA, ONT.—Ottawa capitalists, including Messrs. Geo. Perley and Fred. Avery, are reported to be negotiating for

the establishment of a large pulp mill, at Calumet.—It is again stated that the Ottawa Electric Railway Co. will build a branch line to Rockcliffe ranges.—Some changes and alterations are to be made to the court house.—E. F. E. Roy, Secretary Department of Public Works, wants tenders by July 21st., for construction of telegraph line from River Roumine eastward to Baie Chateau, Strait of Belle Isle. Plans at above department.—The Canada Atlantic Railway Co. will this fall commence the erection of larger car shops, consisting of wood-working, drying and painting shops, operated by electricity.—Walter Shanley, C.E., of Montreal, has gone to Nipissing to direct a government survey of the route of the proposed Ottawa and Georgian Bay canal.—The Dominion supplementary estimates will include an appropriation of \$50,000 towards the construction of a national museum on the Parliament buildings grounds.—Charles McNab, clerk, will receive tenders on behalf of Carleton county council up to Thursday, July 20th, for the construction of a wrought iron or steel bridge over the river Jock, six miles from Stittsville station; bridge to be 100 ft. long, with 16 ft. clear roadway. Plans at county clerk's office, this city.—E. F. E. Roy, secretary Department Public Works, wants tenders by 26th inst. for reconstruction of Ross's wharf at Englishtown, Victoria County, N. S., and until the 27th inst. for the construction of a new wharf at same place. Plans of both works at above department, at Antigonish, and at Englishtown, N. S.

MONTREAL, QUE.—It is announced that the Pittsburg Reduction Co., of Pittsburg, Pa., have decided to locate extensive works at Shawenegan Falls, Que., for the manufacture of alluminum.—It is understood that the Montreal Rolling Mills Co. will erect a plant at Sydney, C. B., as soon as the Dominion Steel Co.'s works are completed.—The building committee of the new French Methodist Church have decided to build a parsonage at once, and to commence work on the church as soon as the parsonage is completed. Both structures will be constructed of brick, with stone fronts, estimated cost \$10,000. The site will be at corner of Delisle and Atwater ave.—At the last meeting of the council of the municipality of Westmount, the proposed electric railway to the mountain was discussed. Mr. D. Williamson read a communication in which he proposed that a private syndicate should build the road.—At a meeting of the St. Jean Baptiste Association held last week, it was decided to request Vanier & Hutchison, architects, to report on the merits of the plans submitted for converting the large hall of the Monument National into

a concert hall.—Prominent Montreal men have made application for a charter for the Wire and Cable Company, with a capital of \$500,000. C. F. Sise and L. B. McFarlane, of the Bell Telephone Co., are interested.—The Bank of Montreal have purchased property facing on Craig street, between the Montreal Street offices and the Gazette building, with a view to enlarging their head offices. The plans for extensions are not yet completed.—It is said to be the intention of Sir William Macdonald to complete the set of buildings he has already given to McGill University by the erection of a biological building.—The Montreal Street Railway Co. have decided to equip their cars with fenders.—L. O. David, city clerk, is this week taking tenders on repairs to police stations.—Jos. Sawyer, architect, has prepared plans for improvements to four houses for M. H. Gougon, Selkirk st., forming 8 dwellings.—Gamelin & Huot, architects, are preparing plans for a house for M. A. Weir, to be built on Sherbrooke street.—W. E. Doran, architect, is asking for tenders for improvements to house on Ontario street, for Scottish American Investment Co.—The Lachine Rapids Hydraulic & Land Co. purpose building a dam from the intake of the present headway of their power plant out to the natural shoal, 1,000 feet away. They will also build about 1,000 feet of crib-work and excavate about 20,000 feet of reef. It is also said to be their intention to provide against all contingencies by installing a large steam plant in a fire-proof building on Chenneville street, and also a steam plant at Cote St. Paul, the latter for furnishing light to the suburbs of the city.

**FIRES.**

Shirt and overall factory of Max L. Schloman & Co., 481 St. Paul street, Montreal, badly damaged; owner of building, James Corestine.—Labatt's brewery at London, Ont., partially destroyed, loss \$35,000, covered by insurance.—Buckley & Co.'s furniture store at Cornwall, Ont., insurance, \$2,900.—H. F. Eaton & Son's sawmill, and John Andrews' axe factory at St. Stephen, N.B., totally destroyed, loss, heavy.—The Winnipeg box factory at Winnipeg, Man., completely gutted on July 5th.—Conroy Bros. extensive sawmills at Deschenes, near Aylmer, Que.; loss, \$135,000; insurance, about \$60,000.—C. Lang's cider factory at Clifford, Ont., loss \$2,000.

Thos. Brethour, contractor, 146 Peel street, Montreal, is reported to have assigned, with liabilities of \$10,000.

**Pumping Machinery  
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*Built Specially for Municipalities*

**The Smart-Eby  
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199 Barton Street East, HAMILTON, ONT.

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**CONTRACTS AWARDED.**

STOUFFVILLE, ONT.—New town hall : M. Forsyth, contractor, \$3,490.

NELSON, B.C.—\$60,000 of debentures : J. F. Gross, of Welland, Ont., purchaser, at \$64,200.

ROSSLAND, B.C.—\$25,000 of debentures : Bank of British North America, purchasers, at 102.

VICTORIA, B. C.—The steel beams required for alterations to court house will be supplied by John Robertson.

GREENWOOD, B.C.—\$30,000 of debentures : Manufacturers Life Association, of Toronto, purchasers, at 101.

ST. JOHN, N.B.—Four storey brick warehouse for T. Rankine & Son : Mason work, John Flood ; carpenter work, E. Bates.

WINNIPEG, MAN.—H. S. Griffith, architect, has let the contract for large frame, house to be built near Portage la Prairie for J. Fulton to Mr. Winton.

PEMBROKE, ONT.—Alterations to High School building: Walter Beatty, contractor, \$4,500.—Two tenders were received for construction of main sewers, as follows. A. Foster & Son, \$11,400 ; Russell & Fortin, \$9,850 (accepted.)

GUELPH, ONT.—Residence for A. E. Shuttleworth: Stone and brick work, J. H. Redwood.—Residence for John McKinnon. Stone and brick work, T. Matthews ; carpenter work, John Hawes ; plastering, Peter Martin ; other contracts not let. Geo. R. Bruce is architect.

LISTOWEL, ONT.—\$13,000 of debentures : Ontario Life Insurance Co., of Waterloo, purchaser, at bonus of \$370. Other tenders. G. W. Woods & Son, Toronto, \$13,305 ; Bank of Hamilton, \$13,145.60 ; Andrew Drummond, Kingston, \$13,156 ; Imperial Bank, \$13,101 ; A. M. Stinson, Toronto, \$13,312.

OTTAWA, ONT.—Sheds, etc., at public schools : J. & C. Low, contractors, \$5,367.—Only two tenders were received by the council for the construction of permanent pavements. The contract for Wellington street has been awarded to Bellhouse, Dillon & Co., of Montreal, at \$23,938, and that for McLaren street to the Warren Scharf Co., at \$15,885. It has been decided to use granite for the asphalt.

NIAGARA FALLS, ONT. Factory in Stamford township for the Niagara Wine Co. Stone work, John Blair ; carpenter work, Waugh & Robertson ; Mr. White, of Niagara Falls, N. Y., architect.—Following tenders were received for purchase of \$6,000 permanent sidewalk debentures: H. O'Hara & Co., Toronto, \$5,847.00 ; Geo. A. Stimson & Co., Toronto, \$5,872 ; O. E. Fleming, Windsor, \$5,700.00 ; G. W. Wood & Son, Toronto, \$5,805.00 ; A. T. Drummond, Kingston, \$5,547.50. The tender of G. A. Stimson & Co. has been accepted.

MONTREAL, QUE.—Jos. Venne, architect, has awarded the contract for wrought iron stair-case and fire escape for the Laval University to E. A. Manny. The Dominion Steel Co., at a meeting held last week, awarded contracts for new power house, McDonnell & Moffatt, of Sydney, securing the excavation and foundation, a Pugwash, N. S., company the brick work, and a Montreal firm the contract for cement.—Building permits have been granted as follows: J. N. Dupuis, alterations to three stores, 1575-81 St. Catharine street, cost \$15,000 (A. Raza, architect ; O. Lemay, mason ; Labrecque & Mercure carpenters) ; W. Hodgson, pressed brick house, 391 Avenue des Pins, cost \$12,000 (Hutchison & Wood, architects ; J. Hutchison, mason ; W. Lavers, brick ; L. Pa-

ton & Son, carpenters) ; Wm. H. Edge, tement house, 261 St. Denis street, cost \$4,200 (Joseph Sawyer, architect ; I. Bouchard, mason ; Emile N. Quet, carpenter) ; W. W. Ogilvie, five brick buildings, eight stories, corner Notre Dame and St. Martins street, cost \$4,000 each (Joseph Sawyer architect ; Labelle & Payette, masons ; Louis Trundle, carpenter.—Stone and brick work for Greenshield's new residence ; Wyton & Morrison, contractors. There will be three freight and one passenger elevators in this building: Hutchison & Wood, architects.

TORONTO, ONT.—Only two complete tenders were submitted for the tower clocks and bells for the new city hall, as follows: Gillett & Johnston, Croydon,

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England, \$19,750; J. E. Ellis & Company, Toronto, amended tender, \$23,000; J. E. Ellis & Company, original tender, \$27,046. The board of control has accepted the tender of Gillett & Johnston.—The following contracts were last week awarded by the City Council: Two pig pens in the Exhibition grounds, building, Mr. Hamlyn, \$1,279; iron work, Metallic Roofing Company, \$343; painting, Mr. Faircloth, \$78. Asphalt pavements—Brunswick avenue, Sussex to Bloor, \$5,000; Mariot street, Landsdowne to O'Hara avenue, \$3,400; Prince Arthur, Huron to Saint George, \$2,215, to the Fruin, Barnbrick Paving Company. Cedar block pavements—Beatty avenue, King to Queen, \$1,811; Adelaide, Bay to York, \$1,945; Sackville, Gerrard to Carlton, \$1,495; Oxford, Augusta to Lippincott, \$1,419, Dominion Paving & Construction Company. Brick pavements—Concord avenue, Bloor to 180 Hepburne, \$5,231, Burns & McCormack; Fraser avenue, King to 269 feet south, \$1,558, City Engineer; Lippincott, College to Ulster, \$5,913, Dominion Paving & Construction Company. Macadam road—Sword st., Gerrard to Spence, \$850, City Engineer. Concrete sidewalks—Queen, north, Gywnne to 450 O'Hara, \$2.35 per foot, Gardner & Co.; Adelaide, south, Yonge to Bay, \$2.35 per foot, Gardner & Co.; Front, south, 100 west, York to 52 east Simcoe, \$1.68 per foot, Mr. Payne.

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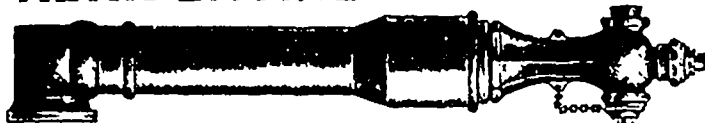
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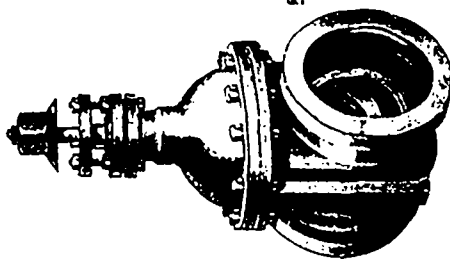
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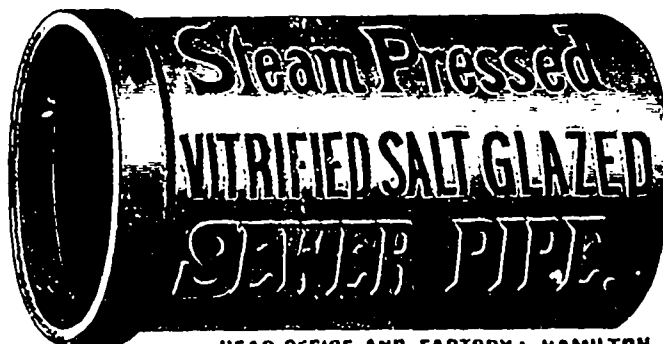
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# MUNICIPAL DEPARTMENT

## SEWER GAS.

For dealing with foul gas in sewers the following directions have been prepared by Mr. Joseph Corbett, the borough engineer, for use in the county borough of Salford, Eng. Whenever men have to go down into an old and foul sewer or cesspool the following precautions must be taken:

1. Open the lids of two adjacent manholes so as to provide a down-cast and an up-cast shaft; or if only one manhole is available and there is no other outlet by an open sewer or ventilation pipe, place a wooden tube about a foot square down the one manhole for use as a down-cast shaft.

2. Use one manhole, or the wooden pipe above described, as a down-cast shaft, by means of a heavy shower of water from a large watering can with a rose jet or else from a rose jet on a hose pipe from the town's water mains.

3. Where there are two manholes near together, use one for the down-cast shaft by means of the shower of water above described, and use the other for the hoisting and working shaft.

4. Test the air in any shaft before men go down it by lowering a lighted candle down it. If the light burns dull, even without going out, the shaft must not be entered. Ventilate the shaft as before described and test it again; and do not enter it until a light will burn brightly in it.

5. Beware of any mixture of combustible or explosive gas in the sewers: their manholes, and if any signs of such gases are found, obtain skilled men and safety lamps from some colliery, and let those men direct the work, giving them the help of ventilation, &c., as before described.

6. When a man has to descend a risky manhole or shaft he must have a strong

rope properly tied about his shoulders, so that he could be lifted by it, and the rope must be kept in hand ready to lift him up if he becomes overpowered by the gas.

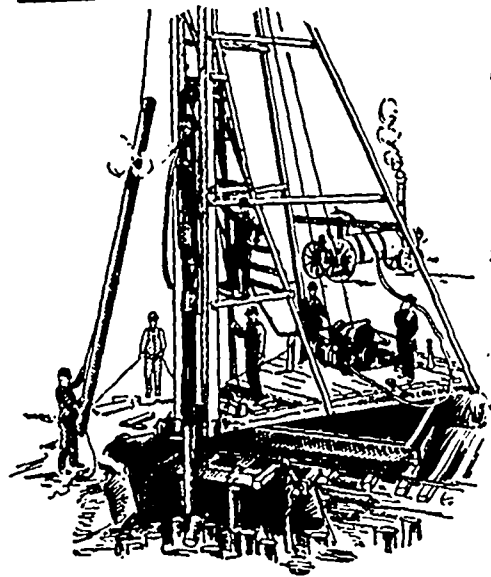
When a man has to crawl along a risky sewer he must have a short rope securely tied to his ankles, and a rope from it to hand so as to draw him back if he becomes overpowered by the gas.

7. In any case of special difficulty or danger, report the case immediately to the borough engineer, so that he may take the responsibility of the work.

## ADVANTAGES OF STREET PAVING IN SMALL CITIES.

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ing that the corporation using the street shall help pay for the paving. In Iowa, for example, street railroads pay for a strip of seven feet wide. This is an important aid in fixing the principle of compensation for public franchises.



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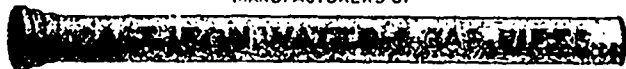
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" 2.....	13 07	18 50
Brown.....	20 00	25 50
Roman Red.....	21 00	30 50
" Buff.....	28 00	33 50
" Brown.....	35 00	40 50
Hard Building.....	6 00	11 50
" Sewers.....	6 00	11 50
Roofing Tiles, \$20 00 per 1,000, \$25 00 Montreal.		

**DON VALLEY FIRE-SEED BRICK W MKS.**

	F.O.B. Don Valley.	P.O.B. Montreal.
Red A.....	18 00	24 00
Red B.....	16 00	20 00
Red C.....	13 00	17 00
Trojan and Corinthian.....	21 00	28 00
Pompeian.....	22 00	29 00
Athenian and Egyptian.....	25 00	31 00
Tyrian.....	35 00	41 00
Sicilian.....	40 00	45 00
Roman.....	35 00	40 00
Carthaginian.....	40 45	45 00
Ornamental.....	30 00 100 00	30 00 10 00
Common insides.....	6 00	
Hard sewers.....	7 50	
Vitrified pavers, 18x18.....	16 00	22 00
" " and.....	1 00	15 00

**COMMON BRICK, Per M.**

	F.O.B. Toronto.	F.O.B. Montreal.
Common Walling.....	7 00 8 00	7 50 8 50
Good Facing.....	8 00 9 00	8 50
Sewer.....	8 00 9 00	8 50 0 00

**STONE.**

Common Rubble, per touce, delivered.....	10 0	11 0
Large flat Rubble, per touce, delivered.....	14 0	18 00
Foundation Blocks, per c. ft. Granite (Stanstead) Ashlar, 6 in. to 12 in., rise 0 in., per ft. Amherst Red Sandstone. Amherst, N.S., per cub. ft. Kent Free stone Quarries, Moncton, N. B., per cu. ft. River John, N. S., brown Freestone, per cu. ft.....	1 00	95
Port Philip, N. S. Brown Sandstone.....	95	95

**"Scoria" Paving Blocks, 8"x3 1/2"x5"..... 50**

**"Scoria" Paving Blocks, 8"x3 1/2"x4"..... 45 00**

**Masilion..... 30 00**

Quebec and Vermont rough granite for building purposes, per c. ft. f.o.b. quarry for ornamental work, cu. ft. Granite paving blocks, 8 in. t. 12 in. x 6 in. x 4 1/2 in. per M. Granite curbing stone, 6 in. x 20 in. per lineal foot..... 70

**CREDIT VALLEY STONE, F.O.B. Quarries.**

Rubble, per car of 25 tons.....	7 00
Brown Coursing, up to 10 in., 1st sup. yard.....	1 50 1 75
Brown Dimension, per cub. ft. Grey Coursing, per sup. yard.....	1 00
Grey Dimension per cub. ft.....	45

**LONGFORD STONE.**

Rubble, per 30 M. car.....	5 00
Ashlar, per cub. yd.....	2 00
Dimension, per cub. ft.....	18

**SLATE.** Toronto. Montreal.

Roofing (1/2 square) red.....	17 50	20 00
" purple.....	8 50	10 00
" untading green.....	8 50	7 00 8 00
" black.....	7 50	6 50
Terra Cotta Tile, per sq.....	20 00	25 00
Ornamental Black Slate Roofing.....	8 80	6 80

**CEMENT, LIME, etc.**

Portland Cement -

German per M.....	2 90 3 10	2 55 2 65
London ".....	2 95 3 00	2 25 2 45
Newcas le ".....	2 70 3 00	1 95 2 10
" Joseph Bra Portland ".....	3 25 3 25	2 70 2 80
" Dyckerhoff ".....	3 05 3 25	2 75 2 90
North's "Condor".....	2 95 3 10	2 65 2 80
English, artificial, per bbl.....	2 85 3 00	2 35 2 45
Belgian, natural, per bbl.....	2 50 2 75	2 00 2 20
Canadian, artificial, ".....	2 85 3 00	2 60 2 70
Roman ".....		2 10 2 25
Parian ".....	5 25 5 25	5 75 5 75
Superfine ".....	1 25 7 40	8 25 9 00
" Karlstadt" (German).....	3 05 3 25	2 75 2 90
" Germania" (German).....	3 25 3 25	2 75 2 90
" Rooster" (Belgian).....		2 15 2 20
" Keystone" (Belgian).....		2 15 2 20
" Anvil" (Belgian).....		1 95 2 05
" Burham" (English).....	2 95 3 00	2 25 2 45

**Hydraulic Cements.**

Thorold, per bbl.....	1 50	1 65
Queenston, ".....	1 50	1 50 1 60
Napanee, ".....	1 50	1 50
Hull, ".....	1 50	1 50
Ontario, ".....	1 25	

Keene's Coarse "Whites".....	5 50	6 00	5 00	5 50
Fire Bricks, Newcastle, per M.....	30 00	35 00	16 00	21 00
Scotch.....	30 00	35 00	19 00	21 00
Lime, 100 lbs., Grey.....		25		
" White.....		30		30
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, 50 & 60d, per keg.....	2 25	1 85
Steel " " ".....	2 25	1 95

**CUT NAILS, FENCE AND CUT SPIKES.**

40d, hot cut, per 100 lbs.....	2 15	1 85
10 to 12d, hot cut.....	2 25	1 95
8d, 9d, " ".....	2 30	2 00
6d, 7d, " ".....	2 40	2 15
4d to 5d, " ".....	2 55	2 25
3d, " ".....	2 80	1 85
2d, " ".....	3 15	2 85

Cut spikes, 10 cents per keg advance.  
Steel Nails, 1 c. per keg extra.  
Wire nails, 250 base, rice.

**Iron Pipe:**

Iron pipe, 1/2 inch, per foot.....	6c.	6c.
" " 3/4 " " ".....	7	7 1/2
" " 1 " " ".....	8 1/2	8 1/2
" " 1 1/4 " " ".....	12	12
" " 1 1/2 " " ".....	17	17
" " 2 " " ".....	24	24
" " 2 1/2 " " ".....	30	30
" " 3 " " ".....	43	43

Toronto, 65 per cent. discount.  
Montreal, 70 per cent. discount.

**Lead Pipe:**

Lead pipe, per lb.....	7c.	25 per cent. dis.
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.	4 1/2
26 gauge, ".....	4 1/2	5	4 1/2
28 ".....	5	5	4 1/2
Gordon Crown—			
16 to 24 gauge, per lb.....	4 1/2	4 1/2	4 1/2
26 gauge, ".....	4 1/2	4 1/2	4 1/2
28 ".....	4 1/2	5	4 1/2

Note.—Cheaper grades about 1/2c. per lb. less.

**Structural Iron:**

Steel Beam, per 100 lbs.....	2 75	2 10
" channels, ".....	2 85	2 30
" angles, ".....	2 50	2 60
" tees, ".....	2 80	2 65
" plates, ".....	2 55	2 00
Sheared steel bridge plate.....		2 30