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# THE CANADIAN CONTRACT RECORD

A WEEKLY JOURNAL OF PUBLIC WORKS, TENDERS, ADVANCE INFORMATION AND MUNICIPAL PROGRESS

EVERY WEDNESDAY

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

VOL. 10.

JUNE 21, 1899

No. 21

## THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY WEDNESDAY

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Advertising Rates on application.

Subscribers who may change their address should give prompt notice of same. In doing so, give both old and new address. Notify the publisher of any irregularity in delivery of paper.

## Steel OR Combination Bridge

Tenders will be received up till JULY 3RD AT NOON for building a BRIDGE over the Saugeen 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.

JAS. BROCELBANK.

## 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 30TH OF JUNE NEXT, for supply of materials in the construction of the following, viz.:

1. Supplying Sewer Pipes in all sizes up to 18 inches.
2. Construction of about 918 feet of 12-inch Tile Sewer on Lindsay Street and about 1027 feet of 9-inch Tile Sewer on Glebeig 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.
3. Construction of a 12-foot Granolithic Walk along the south side of Kent Street for a distance 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 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 Building, Toronto.

The lowest or any tender not necessarily accepted.  
GEORGE INGLE,  
Chairman Board of Works,

CONTRACTORS RESPECTFULLY INFORMED that undersigned is prepared to assist in preparing estimates, any department, carpenter in particular. W. FRASER, 21 Clinton Street, Toronto

## FOR SALE

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

## SEALED TENDERS

Will be received until FRIDAY, JUNE 23RD, 1899, for all trades required in the carrying out of certain ALTERATIONS AND ADDITIONS to premises No. 100 Bay Street, Toronto. Plans and specifications may be seen and all other information obtained at the offices of the Architects, to whom tenders are to be addressed. The lowest or any tender not necessarily accepted.

GOUINLOCK & BAKER, Architects,  
714 Temple Building, Toronto.

## SEALED TENDERS

Will be received by the Town of Prescott up to JUNE 30TH, 1899, for an ENGINE to run their electric light plant, capacity of 125 h.p. or thereabouts. Further particulars can be obtained from Watt & Speakman, Engineers, Canada Life Building, Toronto, Ont. The Corporation do not bind themselves to accept the lowest or any tender.

JOSEPH STEEL,  
Mayor.

## CITY OF CALGARY DEBENTURES FOR SALE

Sealed tenders will be received by the undersigned, and marked "Tender for Debentures," up to noon, SATURDAY, 8TH 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-yearly.

The highest or any tender not necessarily accepted.

CHAS. McMILLAN,  
City Treasurer.

Calgary, June 7th, 1899.

## CONTRACTS OPEN.

STAFFA, ONT.—J. Worden will erect a residence.

COLDWATER, ONT.—Dr. Harvey proposes to erect a residence.

RENFREW, ONT.—The council propose to purchase a steam road roller.

SHANTY BAY, ONT.—Mr. Geo. Brooks, sr., will shortly erect a residence.

PORTAGE LA PRAIRIE, MAN. A large addition is to be built to the Cowan block.

GOLDEN LAKE, B. C. A project is on foot for the erection of an hotel at Attieau Creek.

KEARNEY, ONT.—Mr. Le Hay proposes to rebuild his mill recently destroyed by fire.

WALKERVILLE, ONT. It is reported that a convent to cost \$7,000 is to be erected here.

DARLINGTON, MAN.—Mr. E. Jordan has purchased a site on which to erect a store building.

ORILLIA, ONT.—Mr. Wm. Todd is making arrangements to erect a store

building and to enlarge the old Goffatt building.

WATERLOO, ONT.—The Diamond Furniture Co. will erect a two-storey brick addition to their factory.

NANAIMO, B. C.—A by-law appropriating \$4,000 for the purchase of two fire engines has been passed.

YARMOUTH, N. S.—A committee of the council has been authorized to obtain tenders for fire engine house.

TWEED, ONT. The erection of a heading mill and the installation of a system of electric lighting are in project.

CARLETON PLACE, ONT.—The School Board propose to install a heating and ventilating system in the high school.

PETERBORO, ONT.—The town council of Ashburnham are enquiring into the cost of constructing new water mains.

BARRIE, ONT.—The town council at its last meeting recommended the construction of a number of new sidewalks.

ST. CATHARINES, ONT.—The authorities of Ridley college have commenced the erection of a new building for junior boys.

COBOURG, ONT.—W. J. Maher, will receive tenders until 6 p. m. of the 24th inst. for construction of 1,600 feet cement sidewalk.

WINGHAM, ONT.—The council have decided to purchase the water power privilege of Carr Bros. and to rebuild the dam.

GASPE, QUE.—The Oil Development Company will cover the well district with pipe lines and erect refineries on the wharves.

WESTON, ONT.—T. E. Elliott will receive tenders after 5 p. m. each day up to the 24th inst. for the erection of a brick residence.

AMHERST, N. S.—The Board of Trade have received a letter from a gentleman who proposes, to establish a condensed milk factory here.

THAMESVILLE, ONT.—Mr. Geo. Watt will erect a residence, plans for which are being prepared by Messrs. Wilson & Son, architects, Chatham.

NIAGARA FALLS SOUTH, ONT.—Town clerk invites tenders till 8 p. m. 26th inst., for \$6,000 worth of 20 year debentures, interest 3½ per cent.

GREENWOOD CITY, B. C.—This municipality has just been organized and a by law has been introduced to raise necessary funds for civic work.

NIAGARA FALLS, ONT.—The ratepayers have approved of a by-law for the expenditure of \$6,000 on the construction of permanent side walks.

MONTREAL WEST, QUE.—The by-law authorizing a loan of \$60,000 for local improvements has been approved by the ratepayers.

RIDGETOWN, ONT.—Mr. D. Cockburn will receive tenders until July 3rd at noon for alterations and additions to Mount

Zion Presbyterian church. A certified cheque for \$500 must accompany each tender. Messrs. Spier & Rollins, Windsor, Ont., are the architects.

TILSONBURG, ONT.—Messrs. Gauld & Ensign, of London, are said to be looking for a location for a factory.

FERNIE, B. C.—The Crow's Nest Pass Coal Co. invite tenders for the erection of a coal bin 500 feet long, 30 feet wide and 60 feet high, cost about \$10,000.

HARTLAND, N. B.—It is expected that the New Brunswick Paper and Pulp Mill Company will shortly commence the construction of dam and mills at Tobique Narrows.

SYDNEY, CAPE BRETON.—The Dominion Coal Co. propose to erect extensive iron smelting works near their mines here and establish in this locality extensive ship building works.

ORRVILLE, ONT.—D. F. Malloy will receive tenders until the 30th inst. for the erection of a frame school building. Plans and specifications may be had from the secretary school trustees.

FENELON FALLS, ONT.—W. R. Jenkin, village clerk, invites tenders until noon of the 25th inst., for the erection of a town hall. Specifications at office of W. L. Robson, village treasurer.

BROCKVILLE, ONT.—W. H. Comstock, M.P. states that in the supplementary estimates to be submitted to Parliament shortly, there will be an appropriation for the construction here of a drill hall.

SACKVILLE, N. B.—Mr. Edmund Burke, architect, of Toronto, is here to consult with Mount Allison University authorities with regard to the rebuilding of the University residence recently destroyed by fire.

MAGOG, QUE.—The mayor and councillors Gilburt and Martin have been appointed a committee to report on tenders for a chemical fire engine.—The Light Committee have in view improvements at corporation dam.

FREDERICTON, N. B.—The New Brunswick Telephone Co. have decided to construct at an early date a double circuit between this city and St. John, also to extend the trunk line to Chatham and along the north shore.

STRATFORD, ONT.—Council will issue debentures to cover the cost of opening up of Romeo creek, and the Health and Relief Committee will report regarding proposed sewers on Downie, Cobourg and Inverness streets.

CHATHAM, ONT.—The county council have instructed Mr. W. W. McGeorge to prepare plans and specifications for a new bridge over Fancher creek.—A by-law was also passed authorizing a loan of \$12,000 for the Moravian bridge.—Alex. Gordon, Baldoon, invites tenders until noon 24th inst., for brick veneered residence. Rev. J. J. Haylock, of the same place wants tenders for putting down 1200 feet of tile drain.

ARNPRIOR, ONT.—It is reported that the C.P.R. have definitely decided to build a new station here.—The council have appointed a committee to learn on what terms the Electric Light Co. will dispose of their plant to the corporation.

BERLIN, ONT.—The county council propose to let contracts for a steel bridge with stone or concrete abutments to be erected on the site of what is known as the Wallenstein bridge, and to make repairs to piers at Hespeler bridge.

PASPEBIAC, QUE.—The Canadian Steamship Co. announce their intention to make considerable improvements to the terminal facilities at this port. The Minister of Public Works is said to have promised government assistance.

BRANTFORD, ONT.—A report of the proposed flood prevention works has been received by the council from Mr. Hillman, C.E., of Hamilton.—It is said to be the intention of Messrs. Wood Bros. to erect a mill building on Colborne street.

VICTORIA, B. C.—A substantial brick block is about to be erected on Johnson street by Mr. Geo. Snider.—The Dominion Parliament will be urged to revoke at the present session the appropriation of \$6,000 for the construction of rifle ranges.

KAMLOOPS, B. C.—Mr. C. W. Waid will erect a four storey building.—The council will employ an expert to report on the advisability of purchasing an entirely new plant for electric lighting purposes, the one in use at the present being of insufficient capacity.

BELLEVILLE, ONT.—The city treasurer invites tenders until July 20th for 3½ per cent. 30 and 20 year city debentures, amounting to \$237,000.—The county council have appropriated \$12,000 for road improvement purposes, including the purchase of a rock crusher, also \$4,000 for bridges.

ROSSLAND, B. C.—Application has been made to the council by two companies for the privilege of operating gas works.—The Registrar of the Supreme Court is said to have been notified of the purpose of the provincial government to erect a court house for this city, to cost about \$27,000.

NELSON, B. C.—The city clerk will receive tenders until 5 p. m. July 3rd, for the purchase of \$60,000 worth of twenty year debentures, bearing interest at 5 per cent.—Reports from Victoria state that the erection of a new registry office here at the estimated cost of \$10,000 will be proceeded with.

HALIFAX, N. S.—Alderman McDonald proposes to erect tenement houses on Brunswick street.—Messrs. H. P. Mutch and Samuel LePaige of Boston, have had plans prepared for the erection in this province of extensive smelting works and are now looking about for a suitable site for the same.

LONDON, ONT.—Mr. E. N. Cowan has been given a permit to erect a brick veneer cottage on Wellington street.—Herbert Mathews, architect, will receive tenders until 5 p. m. 22nd inst., for the erection of additions to the factory of McCormack Manufacturing Co.—H. C. McBride will receive tenders until 5 p. m., 22nd inst., for erection of a Sunday school building and alterations to St. Andrew's church.

PENBROKE, ONT.—W. E. O'Meara will receive tenders until 9 p. m. of July 1st for the construction of 690 feet 12 inch cast iron submerged outlet, 242 feet 10 inch ditto, 150 feet 12 inch outlet, 1650 feet 12 inch sewer, 2615 feet 10 inch sewer, 3345 feet 8 inch sewer, 1450 feet 6 inch sewer, 20 manholes, 3 flush tanks, etc. Plans at town clerk's office.—The ratepayers will be asked to approve of a by-law to authorize a loan for the construction of an iron bridge on Mary st.

DUNDAS, ONT.—Mr. Stevenson, the projector of the new hotel building has had plans and specifications prepared, and has advertised for tenders for the construction of the building, which will be a brick structure, 70 x 74 feet and 51 feet high, containing fifty-four rooms, plate glass front, improved plumbing and furnishing. The estimated cost is \$10,000.

RAT PORTAGE, ONT.—Messrs. Warren & Ironsides will build an abattoir.—The town council have decided to convey to the C.P.R. the necessary lands for right of way to enable the company to carry out extensive improvements to their yards and buildings. The town engineer has been instructed to have plans of the proposed building and subway prepared immediately.

GUELPH, ONT.—W. McLaren will receive tenders until the 22nd inst., for supply of coal and wood for the public schools and collegiate institute.—Geo. R. Bruce, architect, will receive tenders until 7.30 p. m. of the 22nd inst., for the erection of a building in the rear of the

city hall.—The same architect invites whole or separate tenders until the 24th inst., for the erection of a brick residence on College Heights.

NEW WESTMINSTER, B. C.—A two-storey brick block is to be erected at the corner of Sixth street on Front street on what is known as the Ellice property.—C. P. R. it is said propose to lay double tracks on Front street, which will involve extensive filling in, piling etc., and the construction of a sea wall. The estimated cost of these improvements is placed at \$40,000.

St. JOHN, N. B.—The Board of Management of the general hospital have instructed W. M. Barber, of the Smith & Anthony Co., of Boston, to prepare plans and specifications for a steam heating plant and steam ventilating system at an estimated cost of \$7,000. The plans are to be submitted on or before July 15th.—Mr. W. M. Turnbull, formerly a leading merchant here, has placed in trust \$100,000 to establish a home for incurables.

SAULT STE. MARIE, ONT.—The owners of the large pulp mill here will at once commence the erection of an extensive sulphite pulp mill and also engage in the manufacture of nickel steel, for which purpose one of the greatest metallurgical reduction plants in the world is to be installed. The management of this company is urging upon the Ontario government the necessity for the construction of a railway to connect the main line of the C.P.R. with the Soo.

COLLINGWOOD, ONT.—Steps are being taken by the council to secure the erection here of the proposed Home for Aged Oddfellows. The estimated cost of the building is \$20,000. Inducements will also be given Mr. N. Donovan, who proposes to build an evaporator.—The council has engaged Messrs. Galt & Speakman, civil engineers, of Toronto, to prepare plans for a complete system of sewerage.—The Finance Committee of the council have appropriated for the use of Board of Works, \$2,500, and \$600 for extension of the intake pipe.

WINNIPEG, MAN.—Two blocks of land adjoining the Merchants' Bank on Main street have recently been sold for \$30,000, and a block north of the corner of McDermaid ave. has been sold for \$60,000.—Tenders are being invited for electric wiring of the various municipal buildings.—The Exhibition Association will endeavor to have an appropriation placed in next year's estimates for the erection of a press building.—Jas. McDiarmid has prepared plans for a 4 storey block for Mernek, Anderson & Co., cost from \$25,000 to \$30,000; a 3 storey warehouse for E. Nicholson, cost \$18,000 to \$20,000; dwelling for M. Fortune, cost from \$5,000 to \$6,000; also a stone dwelling at Emerson for Geo. Pocock, cost \$5,000 to \$6,000.—H. S. Griffith, architect, is calling for tenders for a brick school to be erected at Yorkton, Man., cost \$8,000. Same architect is preparing plans for a business block at Portage la Prairie for T. B. Mills, to cost about \$10,000; also a double house in Winnipeg for W. Wilmore, to cost \$3,000; a single house for H. Radford, Winnipeg, cost about \$3,000. He will later on call for tenders for all trades, except carpentry and masonry, for new school, this city, costing about \$25,000.—F. H. McMillan, provincial treasurer, invites tenders until the 20th of July for the purchase of guaranteed debentures to the amount of \$200,000, payable in thirty years, bearing interest at 4½ half yearly.—The Northern Pacific Railway authorities announce their decision not to build the Manitoba hotel recently destroyed by fire, but to erect on the site a passenger station.—N. Bawlf has purchased thirty feet of land on the right side of Princess street.—A. M. Fraser has purchased thirty-two feet on same street.—Merrick Anderson & Co. will erect a warehouse on Bannantyne street.

—E. Nicholson & Co. will also erect a warehouse on this street.—Gurney Foundry Company will expend a considerable amount in improving the building recently purchased on Lombard street.—Capt. Allen will erect a residence on Roslyn road, cost about \$7,500.—Work on the University building to cost \$30,000 will be commenced shortly.

VANCOUVER, B.C.—Mr. W. S. Hoffar, architect, is preparing plans for a business block for Messrs. Thos. Dunn & Co.—The city solicitor has been instructed to prepare a by-law for the approval of the ratepayers to borrow money for the construction of two septic sewer tanks as recommended by the mayor and engineer.—The city clerk will receive tenders until 2 p.m. to-day for laying a submerged main across the Narrows.—The Vancouver Gas Co. will make extensive additions to their works and system. The works on Keefer street will be practically rebuilt.—A three-storey stone fronted building will be erected on Gleason street near the Bank of British Columbia for the C.P.R. telegraph office.—A new brick building is to be erected on Cranville street opposite post-office. Particulars obtainable from Mr. J. J. Banfield.

HAMILTON, ONT.—The council has been petitioned to construct cement sidewalks on the west side of Bay street, on Cannon street and on Hughson street.—Building permits have been granted as follows: Wm. & Walter Stewart, architects, factory building, Florence and Inchbary streets, for Semmens & Evel, cost \$12,000; Wm. C. Lucas, brick dwelling, Pearl street, cost \$11,000.—The Merriden Britannia Co. will build an addition 100 feet long to their factory.—It is reported that the Cataract Power Co. have secured control of the Hamilton Street Railway, and that this will insure the construction of electric railways to Guelph, Galt, Berlin and Niagara Falls.—The plans for the extension of the proposed Merriden Britannia Co.'s factory are being prepared by A. W. Peene.—William & Walter Stewart, architects, are preparing plans for alterations to the Y. M. C. A. building, also for remodelling of the court house at Guelph.

MONTREAL, QUE.—The Commercial Exchange will petition the Dominion government to erect elevators at Montreal, Quebec and Port Colborne.—The council of St. Louis de Mile End have decided to grant exemption from taxation to the Alaska Feather & Down Co., who have decided to build a factory.—The Canadian Society of Civil Engineers have decided to erect an assembly hall at the rear of their building No. 877 Dorchester street.—The Superintendent of Water-works has presented to the council a detailed statement of repairs required at the reservoir. It has been decided to expend the following sums for this purpose: For division wall, \$17,875; for exterior walls, \$10,000; for meters, \$5,000; for elevators, \$1,000.—The building inspector has been asked to prepare new plans for improvements to St. Lawrence market, to cost within \$3,000.—An agreement has been reached between the harbor commissioners and the city authorities, under which the harbor improvements will be carried out under the direction of the commissioners. The estimates of the work include \$66,840 for filling and raising wharves, \$332,870 to remove ramps and extend wharves outwards and to widen Commissioners street; \$41,125 for macadamizing this street; \$179,071 for revetment wall; \$13,413 for contingencies—a total of \$613,352.—The Minister of Public Works recently visited the central portion of the harbor with a view to selecting a suitable site for a government grain elevator.—The Lachine Rapids Hydraulic & Land Co., Limited, invite tenders until the 26th inst., for crib work and excavating.—The city council will call for

tenders for debentures to the amount of \$3,000,000 for public improvement purposes.—The Montreal Belt Line Railway Company are applying to parliament for power to issue securities to the amount of \$4,000,000 for the construction of the Montreal section of the company's proposed railroad system, also to issue bonds to the extent of \$300,000 for each bridge which it has authority to construct across the Ottawa and Prairie rivers, also debentures for \$1,000,000 for docks, elevators, buildings, etc. The company also ask power to construct the following extensions: An extension of the main line from Ste. Anne de Bellevue in the county of Jacques Cartier, to a point on the Canada Atlantic Railway at St. Justine; an extension of the main line from Bout de l'Île in the parish of Point aux Trembles, to the town of Joliette, to a point on the Great Northern Railway at Joliette; a branch line from a point on the St. Justine extension to the town of l'Assomption; a branch to the village of Rawdon in the county of Montreal, passing the village of St. Jacques.

TORONTO, ONT.—Tenders for repairs to city Separate Schools, invited until 5 p. m. 28th inst., by M. Walsh, 28 Duke street.—The Caledonia Society have undertaken to raise \$3,000 for a monument to Robert Burns.—The Sunlight Soap Co. will proceed with the erection of extensive office and factory building as soon as terms regarding site can be adjusted with the city council. Meanwhile the plans are being proceeded with by Mr. Sprout, architect, Bank of Commerce Building.—Messrs. Darling & Pearson, architects, have been instructed by the Canada Life Assurance Co. to prepare plans for the remodelling of the offices on the fourth and fifth floors of the company's building on King street.—The residents of Brunswick ave. have petitioned for an asphalt pavement between Ulster and Harbord streets.—The city engineer recommends the erection of modern stables on the city's land on the west side of Yonge street at Tannery Hollow; the construction of a macadam roadway on Spadina road, from Bloor street to Bernard ave., estimated cost \$9,260; concrete sidewalks on Colborne street and Mad son ave.; reconstruction of sewer on Dowling ave.; brick sewer on Spadina road north; brick pavement Bellevue place; macadam roadways, Parliament street, from King street to G. T. R. track. Asphalt pavements—Dovercourt road, from Dundas street to Chu-chill ave., estimated cost \$6,470; King street, Simcoe street to Spadina avenue, estimated cost \$24,430; Jameson avenue, from G. T. R. tracks to a point 722 feet south, estimated cost

\$5,400; Church street, Queen street to Bloor, estimated cost \$72,050; Albert street, Yonge to James street, cost \$4,100. Concrete sidewalks—Pembroke street, east side, Shuter street to Wilton ave., and on north side Shuter street from Jarvis to George street; north side Queen street, Bay street to York street.—Mr. Siddall, architect, will shortly invite tenders on his plans for the reconstruction of St. Lawrence market.—Building permits have been granted as follows: S. F. McKinnon, seven-storey brick and stone warehouse at the north-east corner of York and Wellington streets, to cost \$40,000; J. S. Lowry, two-storey brick residence on the west side of Maynard ave., near King street, to cost \$4,500; J. W. Walker, four att. 2 storey and attic bk. dwellings, 235 to 239 Markham st., cost \$7,500; Diamond Glass Co., 1 storey bk. office near Arnour st., w. side Dovercourt rd, cost \$1,300; Kain Bros., pr. 2 storey and attic bk. dwelling, Cawthra square, cost \$4,000.—The Toronto Vinegar Co. are said to have secured a warehouse on Wellington street, which they propose to convert into a pickling factory.—C. J. Gibson, architect invites tenders until the 24th inst., for the erection of three stores on Yonge street.—The Richeleu & Ontario Navigation Co. have had plans prepared for a new steamer for the Montreal route, also for a steamer for service on the St. Lawrence alone.

OTTAWA, ONT.—The sum of \$9,680 is asked as a final appropriation to complete the construction of the west block.—Tenders will be invited for the paving of Wellington street and McLaren street.—Parliament has been asked to vote \$7,000 for a photographic establishment for the Agricultural Department.—The city engineer has been instructed to prepare plans and specifications and advertise for tenders for the extension of the water-works pump-house.—A petition is being signed by lumbermen urging the directors of the Ottawa & Gatineau Railway to extend immediately their line to Eagle Bay on Great Victoria Lake.—It is proposed to expend from \$3,000 to \$4,000 on improvements to the Carleton General Hospital.—The directorate of the Protestant Hospital is considering the advisability of installing an electric light plant. A committee has been appointed to report on the question.—Supplementary estimates have been introduced by the government amounting to upwards of \$1,000,000. Large expenditures are proposed in the Militia Department, \$60,000 additional is required for the St. Lawrence ship channel, \$30,000 for heating and lighting government buildings here, and \$103,000 for

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river improvements and telegraph lines in the Yukon district.—A resolution has been introduced by a member of the Dominion Cabinet providing for the expenditure by the government of \$60,000 per annum for twenty years in beautifying and improving the city of Ottawa. It is proposed to make this grant to the city in consideration of the municipality providing adequate fire protection for the property of the government in this city.—The Separate School Board have authorized a loan of \$40,000, a large part of which will be expended for the erection of new buildings.—The chief of the Fire Department has expressed the opinion that the city should have larger water mains, higher water pressure and an additional fire engine to give adequate fire protection.—The Senate have reduced to two years the time allowed the Ottawa Electric Railway Co. to extend its line to Bell's Corners.—A sub-committee of the Railway and Lighting Committee will report on systems of underground conduits for electric wires.—The city clerk gives notice of the intention of the council to construct sidewalks on a number of streets on the local improvement plan.—Subscriptions are being secured to a fund for the enlargement of the Maternity Hospital.—The Board of Works will apply to the council for an additional grant of \$5,000.—The property committee of the Protestant Hospital have decided not to undertake the proposed improvements until the autumn.—Building permits have been issued as follows: A. F. Henney, addition to the Windsor Hotel, \$5,000; J. H. Putman, dwelling on Rideau Terrace, \$1,000; Richard Tobin, brick veneered house, King street, \$1,000; James Wallace, brick veneered dwelling, MacLaren street, \$2,000; Albert Dunn, frame dwelling, Henderson ave., \$1,200; Mr. Lamb, brick addition to biscuit factory on Murray street, \$1,000; Thos. Cleary, brick veneered house, Somerset street, \$3,000; Grey Nuns' convent, alteration to roof on Rideau street convent, \$2,800.—The Maria street bridge is said to be in an unsafe condition.—The Toronto members of Parliament are urging upon the government the necessity of extending the armouries building.—The trustees of Hartland school district No. 3, parish of Brighton, county of Carleton, invite tenders for debentures to the amount of \$3,000, the money to be used for the erection of a new school building.—Wm. Rea, secretary of Public School Board invites tenders from contractors residing in Ottawa until 27th inst., for school alterations and additions. Messrs. Arnoldi & Stewart are the architects.—Ald. Hasteley will receive tenders until 4 p. m. of the 26th inst., for firemen's clothing.

**FIRES.**

Salmon cannery, Lulu Island, B.C. : loss \$70,000, fully insured.—Dalton Bros.' spice mill, east Front street, Toronto ; loss \$4,000, fully insured.—Stores and

dwellings, village of Ste. Anne de Prescott, Ont., burned on the 12th inst.; little insurance.—Cambridge Lumber Co.'s mill near South Indian, Ont.; loss \$3,000, no insurance.—Moose Head Gold Mining Co.'s stamp mill, Truro, N.S.; loss \$5,000, will rebuild immediately.—Toronto Glass Co.'s factory, damaged to the extent of \$5,000; loss covered by insurance.

**CONTRACTS AWARDED.**

- ALBERNIE, B. C.—Anglican church, Geo. Forest.
- KINGSTON, ONT.—Additions to cotton mill : Geo. Wilson.
- BROCKVILLE, ONT.—Granolithic sidewalks : B. D. Steacy.
- NELSON, B. C.—Bank of Montreal building : Hillier & Co.
- GRANBY, QUE.—Construction of sewers: Wm. Foster & Co., Cornwall.
- MONTREAL, QUE.—Sheds at Eastern abattoir ; Joseph Thibault, \$4,900.
- COLLINGWOOD, ONT.—Cement sidewalks : W. G. Wynes, 11 1/2 cents per foot.
- MCLEOD, N. W. T.—Public school building, Saskatchewan : T. E. Baker, \$9,800.
- ST. JACOBS, ONT.—The township of Woolwich have accepted the tender of B. Bear & Co., for two bridges across the Conestogo river, price \$4,921.
- VANCOUVER, B.C.—Drill shed: Messrs.

Viau & Lachance, Ottawa ; price about \$65,000.

BRACEBRIDGE, ONT.—\$5,000 water-works debentures : G. W. Wood & Son, Toronto.

PARIS, ONT.—Dundas street bridge : masonry, Torrance & McKay, \$2,570; iron work, Hamilton Bridge Co., \$2,575.

TORONTO, ONT.—Plumbing to residences of Dr. William Wilmot, College street, R. C. Clute, Bloor street west, W. K. George, Glen road, McGaw & Wilmott, Rosedale : Purdy, Mansell & Co.

MONCTON, N. B.—Corporation supplies : Winter & Co., pig lead, 40 cents a pound, waste, 7 cents, lime, \$1.07 cents a cask ; T. McAvity & Sons, hydrants, \$45 for 4 inch and \$60 for 6 inch, gate valve, \$20 for 4 inch, \$30 for 6 inch, \$55 for 8 inch.

HAMILTON, ONT.—Duplex sludge pump for city sewage disposal works : Smart-Eby Machine Co., Hamilton.—Addition to Westinghouse works : Mason and brickwork, Wm. Hancock ; carpenter work, W. Halliday ; slating, W. Findlay ; painting, Holcomb Bros.

OTTAWA, ONT.—Fourth section main drain : Robert Grant, Toronto, \$83,653.81 ; five foot circular sewer (part of fourth section same contractor, \$73,484.31. The tenders for these works were as follows : M. A. Pigott, Hamilton, for five foot sewer, \$73,678 ; section 4 complete, \$89,

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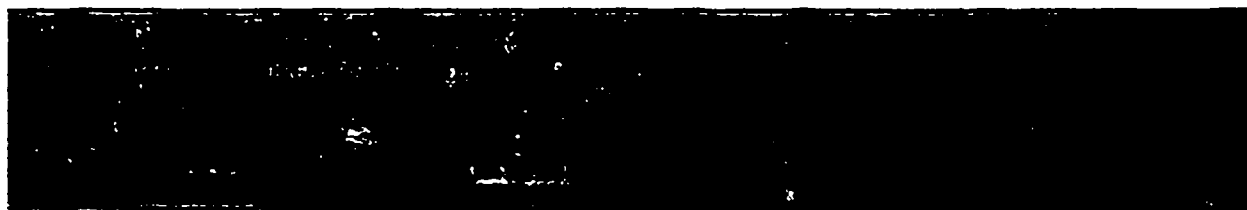
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103; Robert Grant, Toronto, five foot section, \$73,484.31; complete, \$88,653.81; Clark & Connolly, Toronto, five foot section, \$91,900; complete, \$109,100; George Woodwin, Ottawa, five foot section, \$78,500; complete, \$91,500; O'Leary & Robillard, Ottawa, five foot section, \$97,500; complete, \$113,700; Poulin & Bourque, Ottawa, five foot section, \$82,900; complete, \$99,635; William Stewart, Ottawa, five foot section, \$77,177; complete, \$91,177.

MONTREAL, QUE.—Messrs. Saxe & Archibald, architects, have awarded contracts for Mr. Foley's house on Metcalf street, fronting Dominion Square, as follows: Steel work, Dominion Bridge Co.; masonry and brick work, Higgin & Stuart; flooring, the Roebing Construction Co., New York.—C. B. Patterson, architect, has awarded contract for Mr. Hupion's house, to be built on Springfield ave., Westmount, as follows: Masonry and brickwork, Isaac Lewis, Westmount; carpentry and joinery, D. M. Long; plumbing, T. O'Connell; roofing, A. F. Powell; steel work, Dom. Bridge Co.; plastering, Knot & Gardiner, Westmount; electric wiring, Dockrill & Sawyer. Also contracts for Mr. H. Gatehouse, alterations and additions to two stores and dwellings: Masonry and brickwork, Higgin & Stuart; carpentry, Robt. Neville; balance of contracts still open.

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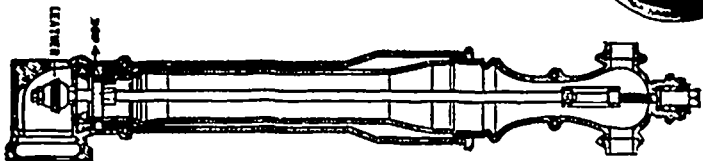
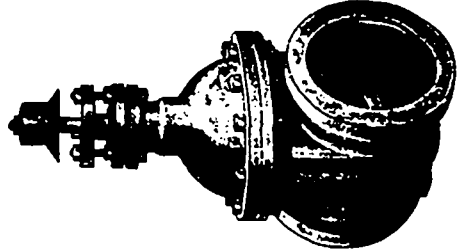
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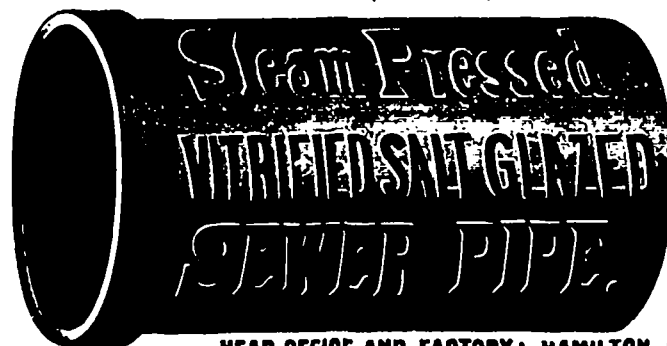
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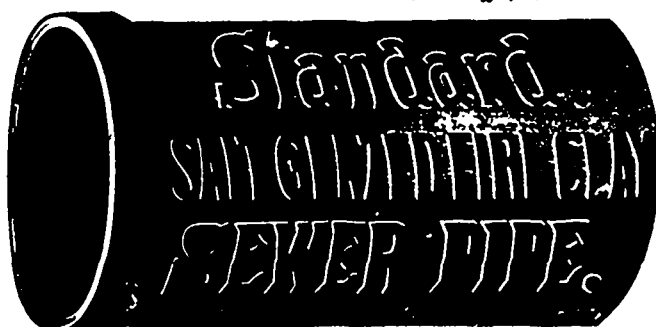
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## NOTES ON SPECIFICATIONS FOR CAST IRON AND GAS PIPES.\*

C. A. MESSNER, Londonderry, Nova Scotia.

It is my purpose to submit some data on water and gas systems which may prove of interest, not only to the members of this Society, but also to the officials and citizens putting in or contemplating to put in such systems.

This is a subject which has not yet received much general attention here, outside of the larger towns and cities, and comparatively few engineers or town officials have had any extensive experience in these matters; yet as a whole you will find the systems existing doing good service and showing that they are well put in, giving proof of the ready adaptability of the people here to entirely new and unknown conditions.

Practically this whole subject is still in its infancy in the provinces, and hence many towns hesitate to put in water or gas systems just because they are unacquainted with the details, and there are not many authorities whom they may consult or get at easily. Perhaps the good canny Scotch trait of wanting to get information for as little as possible has something to do with this, and keeps some from consulting engineering authorities. This, coupled with a perfectly correct conservatism and "make sure before you leap" frequently causes the projects for supplying water or gas systems to languish.

The difficulties are often magnified owing to lack of information, and yet there is not a town in the provinces that could not and should not have a water

\* Paper Read before Canadian Mining Association.

system. The practical and moral benefits are so apparent that I will not enlarge on the same.

One thing I have often noticed is that the average specification, which is submitted to a town, is a document of such formidable proportions and contents, that it is likely to scare many a councillor and make him defer the consideration from time to time until he has screwed his moral courage to the proper sticking point.

There is really no need for this verbosity and enlarged detail, and as a proof I submit to-day a short, concise specification which is used, among others, by the British Admiralty, and which certainly covers all points in very much less space than many others do. Of course, in large cities and for large contracts when great sums are involved, a particularly detailed specification is often necessary, but for the average small system, this one now submitted answers all practical purposes; and if adhered to will give a good reliable system.

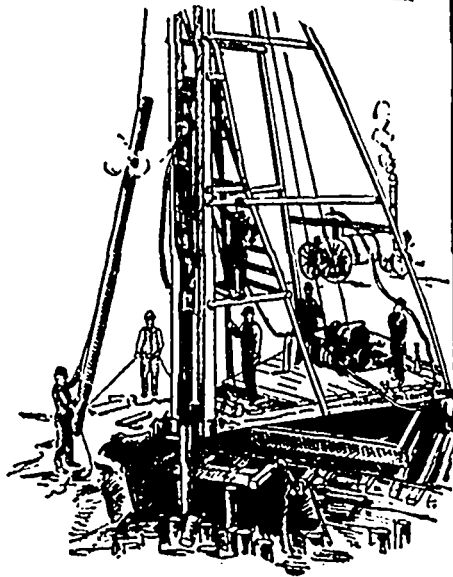
I now want to call your attention to a few points which, in the average specification, strike me as unnecessary and indicate a lack of practical knowledge, which at times may cost the town additional expense through the efforts of the manufacturers to comply with them.

One of these is simply not applicable at all, and is probably the result of copying without thought some engineer's specification who is not acquainted with the detail of pipe manufacture. It refers to testing with a hammer 3 to 4 lbs. and a "6 in. handle!" Now to test pipe under 300 lb. pressure with a 6 in. handle hammer simply means suicide or murder, as the tester must walk along the length of the pipe striking his blows, and if it bursts there is very likely a funeral in prospect at the company's expense, and perhaps a sorrowing family on the conscience of the engineer who insisted on the clause.

You will note that the specification submitted to you does not specify this point. The usual system is to have a 10 ft. handle on the hammer, and tap the pipe under pressure from behind the

tester's screen at the end of the pipe, or by a hammer suspended and having a certain fall, as well as a lateral movement, so as to strike all along the entire length of the pipe.

(To be Continued.)



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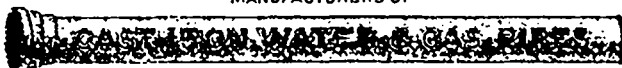
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Red C	13 10	17 00
Trojan and Corinthian	21 00	25 00
Pompeian	22 00	29 00
Athenian and Egyptian	25 00	31 00
Tyrian	35 00	41 00
Sicilian	40 00	45 00
Roman	35 00	40 00
Carthaginian	40 45	45 00
Ornamental	30 00	100 00
Common insides	6 00	10 00
Hard sewers	7 50	
Vitrified pavers, 18 1/2	16 00	22 00
" 2nds	15 00	15 00

#### COMMON BRICK, Per M.

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

#### STONE.

Common Rubble, per tonse, delivered	10 0	11 00
Large flat Rubble, per tonse, delivered	14 00	18 00
Foundation Blocks, per c. ft.	30	50
Granite (Stanstead) Ashlar, 6 in. to 12 in., rise on, per cu. ft.	25	
Amherst Red Sandstone	1 00	75
Kent Free stone Quarries, Moncton, N.B., per cu. ft.	1 00	95
River John, N. S., brown Freestone, per cu. ft.	95	95
Port Philip, N. S. Brown Sandstone	90	

"Scoria" Paving Blocks, 8" X 3 1/2" X 5"	55	
"Scoria" Paving Blocks, 8" X 3 1/2" X 4"	45 00	
Masilon	30 00	
Quebec and Vermont rough granite for building purposes, per c. ft. f.o.b. quarry	40	1 00
For ornamental work, cu. ft.	40	
Granite paving blocks, 8 in. x 12 in. x 6 in. x 4 1/2 in. per M.		50 00
Granite curbing stone, 6 in. x 20 in. per linear foot		70

#### CREDIT VALLEY STONE.

Rubble, per car of 12 tons...	F.O.B. Quarries.	7 00
Brown Coursing, up to 10 in., per sup. yard	1 50	1 75
Brown Dimension, per cub. ft.		60
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.

Roofing (per square)	Toronto.	Montreal.
" red	17 50	20 00
" purple	8 50	10 00
" unfasting 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 bl.	2 90	3 10	2 55 2 65
London	2 95	3 00	2 55 2 45
Newcas le	2 70	3 00	1 95 2 10
" Jossan Bra Portland	3 05	3 25	2 70 2 80
" Dyckerhoff	3 05	3 25	2 75 2 80
North's "Condor"	2 95	3 10	2 65 2 60
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 70 2 25
Parian "	5 25	5 25	5 75 5 75
Superfine "	1 25	7 10	8 25 9 00
" Karlstadt" (German)	3 05	3 25	2 75 2 90
" Germania" (German)	3 05	3 25	2 75 2 90
" Rooster" (Belgian)			2 15 2 20
" Keystone" (Belgian)			2 05 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, "			2 25

Keene's Coarse "Whites"	5 50	6 00	5 00	5 00
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	
Plaster, Calcined, N. B.			2 00	1 50
" " N. S.			2 00	1 50
Hair, Plasterers', per bag	80	1 00		00

#### HARDWARE.

The following are the quotations to builders for nail at Toronto and Montreal:

Cut nails, 50d & 60d, per keg	2 25	1 50
Steel " " "	2 25	1 50

#### CUT NAILS, FENCE AND CUT SPIKES.

40d, hot cut, per 100 lbs	2 15	1 50
10 to 12 1/2, hot cut	2 25	1 90
8d, 9d, " "	2 30	2 10
6d, 7d, " "	2 45	2 10
4d to 5d, " "	2 55	2 10
3d, " "	2 80	2 20
2d, " "	3 15	2 20

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

#### 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
Waste pipe, per lb.	7 1/2	cent. dis

#### Galvanized Iron:

Adam's—Mar's Best and Queen's Head and Opolo:		
10 to 24 gauge, per lb.	4 1/2c.	4 1/2c.
20 gauge, " "	4 1/2	5
28 " " "	5	5 1/2
Gordon Crown—		
10 to 24 gauge, per lb.	4 1/2	4 1/2
20 gauge, " "	4 1/2	4 1/2
28 " " "	4 1/2	5

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

#### Structural Iron:

Steel Beams, per 100 lbs.	2 75	2 00
" channels, "	2 85	2 30
" angles, "	3 50	2 60
" tees, "	2 80	2 60
" plates, "	3 55	2 00
Sheared steel bridge plate		2 50