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

Vol. 8.

SEPTEMBER 2, 1897

No. 31.

THE CANADIAN CONTRACT RECORD.

PUBLISHED EVERY THURSDAY

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

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Architectural practice of Hewitt & MacLaren, including office fixtures and good will, in the City of Brattord (18,000 population) Splendid opportunity for a young man. Hewitt & MacLar: N, Box 417, Brantyoung mar ford, Ont.

SEALED TENDERS

Addressed to the Architects, will be received up to 12 o'clock, noon, on SATURDAY, SEPTEMBER 11th, for the erection of a Brick and Stone Reside ce in St. George Street.

The plans and specifications may be seen at the office of the Architects.

The lowest or any tender not necessarily accepted.

CURRY, BAKER & CO., Architects.

TENDERS FOR SEWER

Tenders will be received, by registered post only, addressed to Alex Mennies, Mayer, Walkerton, up to 4 o'clock MONDAY, SEPT. 12TH, for the construction of the following work, viz. About 460 feet 9-inch and about 800 feet 18-inch of salt glazed pipe sewer on Durham Street, Walkerton, from milli-race to connect with sewer on Jackson Street.

The lowest or any tender not necessarily accepted.
Specifications may be seen and information obtained at the office of the Mayor, or Fred Lippert, Chairman of Drainage Committee.

TENDERS FOR DEBENTURES

Sealed tenders, addressed to the Town Council, Niagara Falls, Ont., and marked "Tenders for Debentures." will be received up to 1 p.m. on MONDAY, SEPTEMBER 6711, 1892, for the purchase of \$59,625 63 Sever Debentures, bearing interest at 5% per annuar payable in from mue to thirty years from date of issue, vir. January 1th, 1896.

Tenders to include accru-d interest from date of Debentures to September 6th, 1897. Interest accuring thereafter upon Debentures until delivery of same to be paid by tenderer in addition to amount of tender.

Lowest or any tender not necessarily accepted.

JOHN ROBINSON, Town Clerk.

Niagara Falls, Ont., Aug. 17th, 1897.

Lenders will be received by registered post only, addressed to the Chairman of the Board of Control, City Hall, Toronto, up to

Noon on Wednesday, Sept. 8th, 1897

for the construction of the following brick walks:-

Bloor Street, north side, Yonge Street to Sherbourne, Oxford Street, south side, Augusta to Bellevue, 4 feet

wide.
Parliament Street, east side, Carlton to Winchester,

4 feet wide.
Adelaide Street, north side, York to Bay, 12 feet wide, stone kerbs.

John Street, west side, King to Adelaide, 6 feet wide.

Specifications may be seen and forms of tender obtained at the office of the City Engineer, Toronto, on and after Wednesday, Spentmebr 18, 1897.

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 contractor and his sureties, or they will be ruled out as informal.

Lowest or any tender not necessarily accepted.

JOHN SHAW (Mayor), Chairman Board of Control-

City Hall, Toronto, Aug. 25th, 1897.

CONTRACTS OPEN.

HESPELER, ON1 .- Building operations in this town are particularly brisk.

MORDEN, MAN .- The C.P.R. are erecting a station building at this point.

ESSEX, ONT .- Improvements to the waterworks system are contemplated.

THORNBURY, ONT.—The council has resolved to build several new bridges.

ST. MARYS, ONT .- The town has decided to construct granolithic sidewalks.

IROQUOIS, ONT .- A by-law to purchase the waterworks system has been defeated.

PETERBORO', ONT - The Dickson Co. will erect a new saw mill here or at Lakefield.

St. Stephen, N.B .- The town authorities contemplate constructing a number of sewers.

VICTORIA, B. C.-A by-law has been adopted to provide funds for road improvements.

BARR'S SETTLEMENT, ONT. - The Good Templars purpose building a hall at an early date.

BARRIE, ONT .- A suitable site for the proposed House of Refuge has not yet been selected.

TILBURY, ONT.—The Grand Central hotel will in all probability be rebuilt in the near future.

GUELPH, ONT.—It is said to be the intention of Charles Raymond to erect a

large double house on the American tenement plan.

SHERBROOKE, QUE .- The city will probably arbitrate for the purchase of the waterworks system.

SAULT STE. MARIE, ONT .- Steps will be taken at once to improve the sewerage system of the town.

SHAWVILLE, QU.L. The question of constructing a system of waterworks is under consideration by the town authorities.

SARNIA, ONT .-- The Sarnia Observer states that a project is on foot to construct an electric railway from Sarnia to Weisbeach.

STOUFFVILLE, ONT.—A by-law has been carried by the taspayers to raise \$25,000 for a gravitation system of water-

BROCKVILLE, ONT .- G. A. Allan, architect, is receiving tenders this week for alterations to store building for Newton Cossitt.

SUMMERSIDE, P. E. I. - It is probable that the construction of a waterworks and sewerage system will be undertaken at an early date.

PORT DALHOUSE, ONT. — A by-law has been carried granting a bonus of \$6,500 to the Toronto Rubber Shoe Co., to establish a factory here.

VERNON, B.C.—By-lawsto raise \$53,000 for waterworks, \$12,000 for an electric light plant and \$10,000 for a city hall have been carried by the ratep wers.

AMHERST, N.S.—The town authorities have decided to invite plans for a new town and fire hall and police station, and also to purchase a road machine.

MIDGIC, N.B .- The corner-stone of the new Baptist church was laid last week. The building will cost \$3,000, and will seat in the vicinity of 400 persons.

KILMARNOCK, ONT.—In response to a request from the county councillors, the government has decided to build a bridge across the Rideau river at this place.

MONTREAL, QUE. - W. E. Doran, architect, is calling for tenders for three tenements to be built on St. Hypolite street, St. Louis ward, for Mrs. P. M. Groome.

REVELSTOKE, B.C. - The Halcyon Hot Springs Sanitarium Syndicate has been incorporated to operate the Halcyon Springs. The sum of \$21,000 will be expended in improving the property.

Kamloops, B. C.—Tenders are being taken for the new Dominion hotel, which will be a brick structure, to cos. \$20,000.

—Building operations in this town are brisk, and brick is coming into favor.

NEWMARKEI, ONI. Proposals are wanted by Charles Wright, town treasurer, until noon of Tuesday, 7th inst, for the parchase of \$2,000 of debantures, bearing interest at 5 per cent, and payable in ten years.

BURKS FALLS, ONT .- It is the inten-

tion of the Ontario government to construct an iron bridge across the Magnetawan river at this place Further particulars may be obtained from E. Bazett, county clerk.

CLINTON, ONT.—The Collegiate Institute Board have decided to improve the ventilation of the building and put in new furnaces, at a cost of \$600.

MONCTON, N. B.—Tenders will be received by David Grant, Chairman Board of School Trustees, until Wednesday, the 15th inst., for the purchase of \$20,000 worth of debentures, issued for the erection of a brick school building.

CORNWALL, ONT.—The plans for a bridge to be built by the New York & Ottawa Railway Co., across the St. Lawrence river, from this town to Hogansburg, have been adopted by the United States and Canadian authorities.

RAT PORTAGE, ONT.—It is reported that the Canadian Pacific Railway officials have decided to build a new depot here.—Peters & Head, architects, are receiving tenders this week for the erection of a brewery, residence, two cottages and a stable.

RENFREW, ONT — B. Dillon, architect, is receiving tenders this week for a stone and brick Methodist church. Plans at Mr. Dillon's office.—The proposed power house in connection with the waterworks system will be located on the Barnard property.

HULL, QUE.—The by-law is being prepared for submission to the taxpayers to raise \$53,000 for the extension of the waterworks—The \$8,000 loan recently negotiated by the School Roard will be expended in out-buildings around St Mary's school and other improvements.

VANCOLVER, B.C. - It is reported that the London syndicate which has under consideration a proposal to erect a smelter here, has secured the necessary capital and will commence work at once. Besides a smelter of 350 tons capacity daily, it is intended to build a refinery.

ALMONTE, ONT.—W. P. McEwen, secretary North Lanark Agricultural Society, wants tenders before 6 p.m. of Saturday, September 4th, for building a stone and gravel road on the grounds of the above society.—The construction of a system of waterworks is advocated by the Gazette.

STRATHROY, ONT — A joint stock company has been formed, composed of H. McColl, John C. Scott, A. Reed, F. N. Saylor and G. M. Haldane, for the purpose of extending the electric lighting business. The present building and plant will be enlarged and improved, and a new generator installed.

FORT WILLIAM, ONT.—At a recent meeting of the Board of Trade, it was agreed that the erection of a large hotel should be undertaken at once, and a committee was appointed to further the scheme.—It is probable that the construction of a waterworks system will be commenced at an early date.

CARLETON PLACE, ONT.—A public meeting was held here last week to discuss the proposed electric railway from Carleton Place to Lanark. Dr. Preston, M. P. P., was appointed chairman. It was finally agreed to take steps to secure, if possible, the construction of the road, and a committee to further the scheme was named.

CHATHAM, ONT — N. J. Bogart has had plans prepared for a new residence to be built on Adelaide street.—The Chatham City and Suburban Railway Co. desire the enlargement of its powers by the right to run north from the city through the township of Dover to Mitchell's Bay, thence to Wallaceburg and Petrolea. George C. Rankin is one of the chief promoters.

HALIFAX, N. S.—Mr. W. S. Gage, representing a syndicate of New York

capitalists, has been in the city for some time. It is understood he will visit the Labrador coast, where it is intended to erect a large saw mill, probably at Hamilton Inlet.—The city has under consideration the question of purchasing an electric light plant. An estimate of the cost of a plant of 250 lights has been given as \$43.

FERGUS, ONT.—A public meeting will be held this week to consider the advisability of building a new High school, at a cost of \$3,000.—Regarding the proposal to erect a new church, the Town Clerk writes: "Some time ago a committee of Melville church congregation was appointed to obtain information as to cost, site and plan of a suitable building. This committee have obtained a plan, which is now ready for submission, but as yet no meeting has been called."

QUEBEC, QUE.--Robert Ritchie will elect a three-story brick residence on D Auteuil street.—The members of the Christian Bros. school intend erecting a college at Ste. Marie, Beauce, to cost \$20,499.—It is said to be the intention of Mr. Charles Baillairge, C.E., to build a residence a the corner of Maple avenue and Grande Allee.—It is stated that an effort will be made to secure the extension of the Quebec and Lake St. John Railway from St. Alphonse to Chicoutimi.

NELSON, B. C.—Crane & Co., of Portland, having refused to accept the contract for valves, valve boxes and fire hydrants in connection with the waterworks system, new tenders will be invited.—Three sets of plans for waterworks and sewerage systems, submitted by Messrs. Cummings, Coyle and McCulloch, have been adopted by the council. The reports favor Anderson creek as a source of water supply. Mr. A. L. McCulloch has been appointed engineer in charge of construction.

ST. THOMAS, ONT. — The Ontano Radiator Co., of Toronto, have requested the city to grant them a bonus of \$10,000 to assist in establishing a factory here.— Seventeen sets of plans were received by the Board of Education for the proposed twenty-room school building, for which three prizes of \$50, \$35 and \$25 were offered. Awards have been made as follows: 1st, E. T. McDonald, St. Thomas, estimated cost of building, \$32,000; 2nd, Neil Darrach, St. Thomas, cost \$30,000; 3rd, Mr. Ogilvie, Toronto, cost \$28,000.

ST. JOHN, N.B.—The provincial lunatic asylum is to be supplied with water from a well 500 feet deep, and the necessary pump and tanks will be put in at once.—The construction of several pulp mills in this province is contemplated. B. Mooney & Son have in contemplation the erection of a mill at Mispec, and Cushing & Co. will build a mill of 20 tons daily capacity at Union Point. It is also reported that an English syndicate have purchased property at St. George on which to erect a pulp mill, while still another mill is talked of at Grand Falls.

Winnipeg, Man.—Mr. L. A. Hamilton, C. P. R. land commissioner, is having surveys made of the portages between Lake Wabigoon and Lake Manitou and also from Pickerel lake to Rainy lake by way of the Manitou river, with a view to the construction of steam tramways so that the series of water courses from Wabigoon on the C. P. R. main line to the Lake of the Woods could be made available.—A deputation from Stonewall and Selkirk waited on the Minister of Public Works last week and urged the extension of the drainage of the St. Andrew's marsh.

LONDON, ONT.—John Chapman, photographer, has had plans prepared for two frame cottages to be built on the Wharncliffe road, in London West.—George Cox has been granted a building permit for a story and a half frame building on Colbome street.— William Sadler will erect a brick residence on Byron avenue.

-No. 3 Committee of the City Council has been authorized to call for tenders for twelve fire alarm boxes. - Thomas Mitchell, 778 Grey street, has taken out a permit for a two story brick veneer residence, south side Grey street, between Adelaide and Rectory, to cost \$1,300.

KINGSTON, ONT.—About 30 brick residences are being erected in this city at the present time.—Power & Son, architects, have been instructed by the city council to prepare specifications for the necessary repairs to the city building.—A scheme is spoken of to construct an electric railway on Wells' Island, connecting Thousand Island park, Fine View and Westminster park. The distance would be seven miles.—Work will be commenced at once on the new oil sheds for the Queen City Oil Company. A one story building, 40 × 100 feet, will be built, together with the necessary tanks, machinery and equipments.

OTTAWA, ONT.—Mr. Jennings, C.E., and a staff of assistants have left Vancouver to explore and report on the construction of a narrow gauge railway from Telegraph Creek to Teslin Lake, B. C. Mr. Jennings is acting under instructions from the Department of the Interior.—The Department of Railways and Canals invites tenders until the 14th inst. for the construction and setting up in working order of 16 pairs of lock gates at the Soulanges canal. Plans may be seen, after the 6th inst., at the office of the chief engineer of the above department, this city, and tenders are to be addressed to L. E. Jones, secretary.—E. L. Horwood, architect, has been granted building permits for two brick residences on Maclaren street for W. F. Mason.—Negotiations have been completed for the purchase of a block of property near the canal basin. It is thought that the purchasers are the C. P. R., who intend erecting a central station.

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HAMILTON, ONT.—The Hamilton & Toronto Sewer Pipe Co. have not yet reached a decision regarding the rebuilding of their factory. They have made application to the city for exemption from taxation for five years on that portion of the value of the new premises which is in excess of the present assessment, but this concession the council have not yet granted.—Building permits have been granted as follows: E. B. Patterson, two story brick dwelling on King street, between Hess & Caroline streets, for Dr. A. G. Langdrill, cost \$3,000, Thos. Allen, three 2-story brick dwellings on O'Reilly street, between Catherine and Walnut streets, cost \$4,200, and a 2-story brick dwelling on Market street, between Queen and Bay street, cost \$1,300; James A. Mercer, two-story brick dwelling on Grant avenue, between Main and Stinson streets, cost \$1,700. — Work on the new premises for the Sun Life Assurance Co. will be commenced at once. It is the mention to have the ground floor fitted up for a bank.—The city clerk has invited tenders for constructing a pipe sewer on Picton street, between John and Catherine streets. A. W. Peene, architect, is receiving tenders this week for alterations to a factory building.

TORONTO, UNT.—The City Engineer has been instructed to report upon the possibility of utilizing garbage for developing heat and electricity. The construction of a cedar block pavement on Queen street west, from the subway to Roncesvalles avenue, will be proceeded with at once.—The British Association for the Advancement of Science have voted a sum of money for the purpose of biological study on the lakes of Ontario, and it has been decided to erect a station for the purpose near Algonquin Park. It is also intimated that the Ontario government will be approached with a view of obtaining a tract of land adjoining said park upon which the professors of the Univer-

sity of Toronto intend erecting summer residences.—The residents on Bellevue avenue, between Bellevue place and Ox ford street, propose to petition against the construction of a brick pavement on gravel foundation on that street. - A petition has been received by the city against a brick sidew.ilk on Princess street, from King to Duke. The University of Toronto will be asked to make alterations and repairs to the Technical School building in the Queen's Park, to cost \$25,000.—Building Queen's Park, to cost \$25,000.—Building permits have been granted as follows: Smith & Geminell, architects, alterations at 203½ Yonge st., cost \$1,200; Strickland & Symons, architects, 2-story bk. addition to dwelling, s. e. cor. Bloor and Spadina ave., cost \$3,000; John Beatty, pr. s.d. 2-story and attic bk. dwellings, n. side King st., near Triller ave., cost \$5,000; P. Ridout, Rosedale, alteration and addition to dwelling "Rosedale House," cost \$1,100; M. T. Sheard, alterations and 3-story bk. didition to store, 146 Yon, e st., cost \$9,000.—Mr. W. J. Gage has offered to erect a suitable building for has offered to erect a suitable building for a free public swimming bath provided the city will furnish a suitable site in a central portion of the city.—The officers of the Women's Methodist Missionary Society state that new hospitals for medical mission work are required at Edmonton, N. W. T., and Upper Skena, also a new home at Bella Bella.—Beaumont Jarvis, architect, has prepared plans and will shortly take tenders for a chapel to be built in connection with Loretto Abbey, to cost \$30,000.

FIRES.

The sash and door factory of W. M. Roberts, at Renfrew, Ont., was burned on the 27th ult. The loss on buildings and machinery is estimated at \$4,000.—Mc-Mally's butter bowl factory and Mrs. Moss' brick residence at Walkerton, Ont., were destroyed by fire last week.—Griffith's boot and shoe factory on St. Vallier street, Quebec, was badly damaged by fire recently. The loss is estimated at \$75,000.—The fire hall and town stable at Galt, Ont., have been burned. Loss \$1,000, covered by insurance.—A saw mill belonging to M. Fortier at Thetford Mines, Que., was recently burned. Loss partially covered by insurance.—T. Turgeon's saw mill, situated between St. geon's saw mill, situated between St. Joseph and St. Francis, in Beauce county, Que., has been destroyed by fire. No msurance.—A building at Massassaga Park, owned by H. Corby, M.P., of Belleville, was burned on Monday last.—J. B. Coate's stave and heading factory at Bilderium Corb, has been gutted by fire Ridgetown, Ont., has been gutted by fire.
The building was owned by T. P. Watson.
—A. H. Davidson's saw mill at Colpoy's Bay, Ont., was burned on Tuesday last.—C. C. Raven's residence at Deseronto, Ont., was destroyed by fire a few days ago.

CONTRACTS AWARDED.

NELSON, B. C The contract for the pipes for the water system has been given to H. J. Evans, of Nelson.

HULL, QUE.—Joseph Bourque has re-ceived the contract to build a new church at.St. Thomas d'Aquin, Que.

BALDUR, MAN.—The contract has been

let for a brick church for the Church of England congregation, to cost \$2,000.

DEPOT HARBOR, ONL-Mr. Tomlinson, of Ottawa, has the contract for rebuilding the notel here recently burned.

CHATHAM, ONT.—The tender of R. Stevens, of \$119.50, has been accepted for the construction of a sewer on Park street.

ST. JOHN, N. B.—The contract for galvanized iron and copper work of the street railway power house has been let to John E. Wilson.

THREE RIVERS, QUE.—The following contracts have been awarded for convent for the Ladies of the Precious Blood: Masonry, F. X. Nobert; carpenter and joiner's work, Isidore Pothier. The building will be of brick, estimated cost, \$25,

ST. MARYS, ON1. -- Contracts for James Story's residence have been let as below. Stonework, James Clyde; carpenter work, W. W. Haynes.

Ollawa, Onl. The contract for the last ten miles of the Ottawa & New York Railway, extending into this city, has been let to Mr. McNaughton.

LENNOXVILLE, QUE.-The contract for a new gymnasium and head master's house at Bishop's College has been let, and work is now in progress.

DESERONTO, ONT.— The Deseronto Car Works have secured the contract for a sample dump car for the Asbestos & Asbestic Co., of Danville, Que.

Belleville, ONT.—The contract for building granolithic walks from Pinnacle street to the court house has been given to Frank Dolan, at the price of \$197.

LONDON, UNT.—The Central Bridge & Engineering Co., of Peterboro', are making arrangements to commence work on the King street bridge. The structure will cost \$10,009. The approach on the east side will be 350 feet long, and on the west side 145 feet, while the span will be 163

WINNIPEG, MAN. - Davidson Bros. have been awarded the contract for the whole work in connection with a brick laundry building at Selkirk Asylum for the provincial government. Mr. J. Greenfield is the architect. The same architect has let a contract for stone foundations to eight houses.

QUEBEC, QUE. - The contract for two Railway has been let to the Kingston Locomotive & Engine Co. The Mulson Bank will erect a branch office corner St. Peter and St. James streets. A. T. Taylor, F.R.I.B.A., Montreal, architect; S. Peters, contractor, probable cost, \$5,-500.

KINGSION, ONI .- W. Newlands, architect, has accepted tenders as follows for a pressed brick and terra cotta wing to James Campbell's residence, comer Earl and West streets. Masonry, George New-lands, carpentry, Thomas Brooks; heat-ing, plumbing and gas-fitting, Elliott Bros., painting and glazing, T. Milo.

TORONTO, ONT .- The Board of Works have awarded contracts for pavements as Cedar block on gravel, Charles Maloney, \$975; gravel roadway, Close avenue, from Queen to Springhurst avenue, Constructing & Paving Co., \$3,-373, gravel, Lansdowne avenue, from Queen to Union street, Constructing & Paving Co., \$3,325.

COLLINGWOOD, ONT. - The Bryan Mfg. Co. have secured the contract for the Oddfellows Hall, the new post-office, and several residences at Parry Sound.—Wilson Bros. are erecting a large blick store for the Ceylon Tea Co. This firm are also rebuilding a residence for T. Long.-Keith & Fitzsimmons, of Toronto, have the contract for heating the public school here. - The Bennett & Wright Co., of Toronto, have the contract for heating a residence in this town.

HAMILTON, ONT .- Trinidad asphalt will be substituted for brick for the McNab street pavement. The contract has been given to the Kramer-Irwin Co., at \$2.08 per square yard. The Sewers Committee have accepted the following tenders for works in connection with the Ferguson works in connection with the Ferguson avenue sewage disposal works. Masonry, G. F. Webb, \$5,699, carpenter work, R. & J. Poag, \$1,639, painting, D. Kemp, \$198, roofing, J. E. Riddell, \$897; plumbing, Fairley & Stewart, \$633, steam boilers, R. Quinn, \$1,050, machinery, A. J. Nye, \$5,480, elevators, Lench & Turn-

(Continued on Page 4.)

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THE PROTESTANT INSANE ASYLUM, Verdun, near Montreal.

THE GRAND HOTEL, St. Hyacinthe, Que.

THE NEW CUSTOMS-APPRAISERS STORES, NEW YORK, now building, which will consume 5,000 tons

THE PARLIAMENT BUILDINGS, OTTAWA, portion of which was recently destroyed by fire and rebuilt.

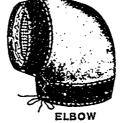
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bull, \$475; electrical work, Lowe & Far-rell, \$130. The contract for machinery will be awarded at a later date.

will be awarded at a later date.

RAT PORTAGE, ONT.—The following were the tenders received for sewer construction: A. S. Horswell & Jas. Kelly, \$8,790; W. H. Rourke (Winnipeg), \$8,990; J. Chalmers, \$6,793; Walter Ross, without excavation and timbering, \$6,148.60; H. W. Kennedy & Co. \$9,965; H. W. Kennedy & C cepted.

GUELPH, ONT .- G. R. Bruce, architect, has accepted the following tenders for a two story addition, 36 × 33 feet, to D. R. Rowen's store: Masonry, H. Benallick; carpentry, E. Mulrooney; tinsmithing, A. Rumford; painting, J. S. Moffat; plastering, Shaw & Dunbar.—G. R. Bruce, and the control of th tering, Shaw & Dunbar.—G. R. Bruce, architect, has accepted the following tenders for a two story red brick residence for Charles Raymond, to cost \$4,000: Masonry, John Chubb; carpentry, Mahoney; painting, W. Scriven; plumbing, Mahoney Bros., tinsmithing, John Sevan.

MONTRLAL, QUE A'fred Gravel is the successful tenderer for water closets and successful tenderer for water closets and sheds on the mountain for the Mount Royal Park Commutee. Contract price, \$1,390.—The masonry and carpenter work of a pressed brick tenement building on Delorimer ave., for Mde. Cardinal, has been given to N. Lavore. J. A. Karch, architect.—Building permits have been granted as follows: Two houses on Rivard street, wood and brick, for Anselme granted as follows: Two houses on Rivard street, wood and brick, for Anselme Bertrand. Seven houses on Resther street, stone and brick, for R. Archambault—masonry contractor, Nap. Guilbault; carpentry, Nap. Deslaurier; brick, J. Brouillet; painting, J. D. Vaillancourt.—Turgeon & Lafreniere, architects, have accepted tenders as below for nine tenements to be erected on Marie Anne street for Wand & Brosseau: Masonry, Picotte & Son; brickwork, Marsau & Co.; carpentry, L. O. Bernard; doors, sashes, etc., D. Gagne; roofing and plumbing, T. Charette; painting, Perrault Bros.; plastering, Beauchamp & Labelle.—Contracts have been let as follows by Chas. Chausse, have been let as follows by Chas. Chausse, have been let as follows by Chas. Chausse, architect, for four houses on Mount Pleasant avenue, Westmount, for Felix Mercier: Masonry, Louis Ouimet; carpentry and joinery, T. Benard.—Joseph Venne, architect, has awarded contracts as follows for additions to St. John Baptist church: Masonry, Latreille & Bros.; carpenter and joiner's work, Urgel Pauze & Son; panting, Rollin, Parizeau & Co.; roofing. Pelletuer & Brosseau: benches. son; panning, Ronni, Parizeau & Co., roofing, Pelletier & Brosseau; benches, S. Parizeau; altats, F. Mesnard.—R. M. Rodden, architect, has let the contract for alterations to dwelling and O'Brien's Hall, corner of Wellington and Sebastopol

streets, for the Point St. Charles A. A. A., to Bulmer & Bulmer, general contractors.

James Burns, builder, Hamilton, Ont., has assigned to W. Ambrose, of that city.

The firm of Briggs & Edwards, carpenters and joiners, Montreal, has been dis-

solved. The Forsyth Granite & Marble Co., of Montreal, is seeking incorporation, with a capital stock of \$50,000.

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DEPARTMENT

THE LAYING-OUT OF PARKS, RE-CREATION GROUNDS AND OPEN SPACES.

BY FRANCIS SMYTHE.

The subject of this paper might not, perhaps, be considered of an engineering character, but the duties of a municipal engineer of the present day are of such a multifarious nature that the laying-out and care of public open spaces in most instances come under his supervision and management, and there is no doubt his work under this head will, in many cases, be increased by reason of the Queen's Diamond Jubilce.

It was the author's first intention to confine his remarks to the selection and planting of shrubs; but in most cases, if a local nurseryman were consulted, the advice obtained in regard to selection of trees and shrubs suitable to the locality would be most valuable, but generally the ideas and artistic tastes of the ordinary nurseryman are not of a very high order, and therefore a paper embodying general principles of laying-out open spaces would perhaps be of more utility to municipal engineers.

It is impossible to lay down any fixed rules to follow, as no two sites are alike in the character of their surroundings or background, in their elevation, in the configuration of their surfaces, or their size. Except in a few instances the area would be limited, and where this is the case the size can to a certain extent be disguised, and the site apparently enlarged by the disposition of the paths, and the position of shrubberies and trees so arranged that when standing on one side of the site elongated views can only be obtained of the grass on the other side, either over the shrubs or between patches of shrubberies. All objectionable contiguous and distant objects, such as the backs of houses, walls, chimney shafts, etc., should be shut out of view from the interior of the site as much as possible by the planting of quick-growing trees and shrubs, and caremust be taken that suitable distant scenery is not obliterated from view.

The building of walls, either of stone or brick, to enclose a site, is most objectionable, as they never harmonize with trees or shrubs, and if there exist any such walls which cannot be interfered with, strong-growing ivy should be planted to quickly cover their surfaces. No doubt a wall would be required for the frontage line of a street, but in this case it should be a dwarf one surmounted with iron palings. On those sides of the site which are exposed to cold winds, a screen of quick-growing, hardy trees, such as pines, sycamores, poplars, etc., should, if possible, be planted; the former are to be preferred, as they are not deciduous, and therefore offer protection when most re-

quired-viz., during winter months-and if a deep soil can be obtained, either naturally or artificially, they grow very quickly, and the object in view is soon attained. The sombie appearance of some of them may be avoided by either planting two or three varieties, or intermixing with deciduous trees, in order to obtain a combination of greens to prevent a monotony. A screen of this kind is essential where the site is an exposed one, as cold winds have far worse effect upon plant growth than frost; indeed, the latter has a beneficial effect upon all but tender plants unless very severe, by retarding growth during a period of required rest.

The first thing to be considered would be the approaches to the site, which should be made as bold as possible, and the streets in which they are situated, if not of sufficient width, widened to at least 50 ft. or 60 ft., and the entrances made opposite to the intersection of any street. If lodges are required, and have two floors, the upper story might be preferably built with half-timber work, and have a high-pitched tiled roof, with a backing from the street of tall growing trees, and with one or two dwarfer intervening trees (standard fruit trees answer admirably for this purpose) between the lodge and the street, the idea being that the tops of the tall trees will form a backing for the roof of the lodge, and the intervening trees form a foreground, with the half-timber work showing through the branches, so that care must be taken that if more than one is planted the trees should have ample space between them, so that they do not hide the half-timber work entirely. If the lodge is a two-story one the space between it and the street should not be less than, say, 60 ft., but if only one story a minimum distance of, say, 30 ft. may be adopted. In the former case a small garden might be attached to the lodge, surrounded with a border of shrubs planted closely; in the latter case the whole of the space filled up with shrubs, and if a garden were required it would be placed at the back or side of the lodge. In each case it adds to the effect of the lodge if either roses, clematis, ivy, or other climbing plants are allowed to grow up the front and sides of the lodge. In the case of a one-story lodge, the trees planted for a background should be of a dwarf nature-fruit trees, for instance-so that the foliage may not overhang the roof, but form a contrast to it.

If a refreshment or shelter kiosk or arbour-houses are required, the former should be erected at an equally accessible point from every part of the site; the position, however, must be subservient to effect. A good plan would be to have the kiosk constructed with two floors, the lower story utilized for refreshments, or a shelter, perhaps, enclosed and glazed, and the upper story, of a less floor area, roofed, having open sides with an ornamental wood or iron railing, for the location of the band, as by this means the sound would be better blended and distributed; or small arbour-houses might be erected here and there over the site, their positions being again controlled by the effect they will have upon the other details of the site. These arhours might be made very mexpensive, and certainly very effective, by constructing a brick or concrete foundation, with a framework of hardwood fixed thereon, covered with matchboarding stained a warm color and varnished, and a tiled roof; or, better and cheaper still, a boarded roof thatched preferably with heather, or a light framework of iron might be substituted for wood, covered with strong galvanized netting, and ivy planted round the outside of the arbour.

lvy is not used so much as it ought to be for this purpose, perhaps on account of its slow growth as it is usually planted; if, its slow growth as it is usually planted; if, however, the ground is properly prepared and quick-growing varieties obtained, such as the Irish try (Hedera Helix Canariensis), the toothed try (H. dentata), or the Algerian ivy (H. Helix Algeriansis), it would only be a couple of years before such a structure was covered. A trench 4 ft. wide should be first dug where the try is required to be planted to the death. ivy is required to be planted, to the depth of the surface soil, but no deeper. The subsoil should be then dug over with a long fork and disintegrated, and have at least a barrowful of rotten manure to every yard of trench incorporated with it; this should be well trodden down and the surface soil replaced upon the top and again well trodden down. should have previously been grown in pots at least 40's in size, and have at least 4 st. of stem, and be planted 4 st. apart, well trodden in, watered, and if the weather is dry, mulched with manure. As soon, as growth starts the leader should be pinched out, in order to allow lateral shoots to break and form low growth. Ivy is a gross feeder, and if planted as nurserymen generally do, by simply digging a whole and putting the roots into it and covering them up, it is a long time before any result is obtained, but if planted as the author advises growth soon commences. (To be Continued.)

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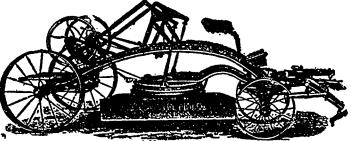
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per cu. ft., f.o.b. River John, N. S., brown a cu. ft., f.o.b. Quebec and Vermont roug building purposes, per c.ft For ornamental work, cu. ft.	recestone, per 95 95 th granite for 1.6.0.h.quarry. 40 1 00	Hydraulic Cements.— Thorold, per bbl. Queenston, " Napance, " Hull, "	175 125 150 175 150 160 175 150 150 175 150
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per cu. ft., f.o.b	reestone, per 95 95 th granite for 1. f.o.b.quarry. 40 1 00 1. to 12 in.x6 in.	Hydraulic Cements.— Thorold, per bbl	175 125 150 175 150 160 175 150 150 175 150 175 150 110 450 475 500 550 2700 3500 1500 2100
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per co. ft., f.o.b. River John, N. S., brown a cu. ft., f.o.b. Quebec and Vermont roug building purposes, per c.ff For ornamental work, cu. ft. Granite paving blocks, 8 in. x4½ in. per M. Gran te curbing stone, 6 ir lineal foot. **SLA* Rocfing (** square*). " red	freestone, per b granite for t. fo.b. quarry. to 12 in.x6 in. 70 TE. TOPONTO. MONTOAL,	Hydraulic Cements.— Thorold, per bbl	175 125 150 175 150 160 175 150 160 175 150 175 150 170 150 270 350 150 2100 270 350 190 2100 40 50 80 200 150 200 150 80 100 103
per co. ft., f.o.b. River John, N. S., brown a cu.ft., f.o.b. Quebec and Vermont roug building purposes, per c.ft For ornamental work, cu. ft. Granite paving blocks, 8 in. x4% in. per M. Gran te curbing stone, 6 ir lineal foot.	recestone, per 1 00 95 ch granite for 95 95 ch granite for 40 100 to 12 in. x6 in. 50 co 1. x 20 in. per 70 TF TOPONTO. MONTPSAL.	Hydraulic Cements.— Thorold, per bhl	175 125 150 175 150 160 175 150 160 175 150 175 150 170 150 170 150 2700 3500 1500 2100 40 50 80 200 150 200 150 80 100 100 VARE.
Roer floh, N. S., brown a cu. ft., f.o.b	freestone, per 1 00 95 th granite for 1 00 1.60.h. quarry, 40 1 00 1.60.h. quarry, 40 1 00 1.00.h. x 20 in. per 70 T.F TOPONTO. MONTPORI, 18 00 10 00 18 00 7 00 8 00 18 00 5.50 25 00 25 00	Hydraulic Cements.— Thorold, per bhl	175 125 150 175 150 160 175 150 160 175 150 175 150 170 150 170 150 270 3500 1500 2100 40 50 80 200 150 200 150 200 150 80 100 100 80 100 80 100 100 80 100 100 80 100 100 80 100 100 80 100 100 80 100 100 80 100 100 80 100 100 80 100 100 80 100 100 80 100 100 80 10
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per co. ft., f.o.b. River John, N. S., brown a cu.ft., f.o.b., S., brown a cu.ft., f.o.b. Quebec and Vermont rou building purposes, per c.ft For ornamental work, cu. ft. Granite paving blocks, 8 in. x, 1/2 in. per M. Gran te curbing stone, 6 ir lineal foot. SEA Roofing (@ square). " red " purple " purple " purple " black Terra Cotta Tile, per sq Ornamental Black Slate Roof. PAINTS. White lead, Can., per 100 lib	Creestone, per 1 00 95 Creestone, per 95 95 Ch granite for 1 00 TFE. 70 TOPONTO. MONTPOAL. 18 00 20 00 10 00 7 00 8 00 10 00 6 50	Hydraulic Cements.— Thorold, per bbl	175 125 150 175 150 160 175 150 160 175 150 177 150 170 150 170 150 2700 3500 1500 2100 2700 3500 1500 2100 40 50 80 200 150 200 150 200 150 80 100 103 8ARE. ations to builders for nails 225 175 235 186
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River John, N. S., brown a cu. ft., f.o.b. Quebec and Vermont rought and the culture of the cul	TE. TOTONIO. MONIFORI. 18 00 20 00 18 00 70 80 18 00 25 00 18 00 70 80 18 00 25 00 18 00	Hydraulic Cements.— Thorold, per bbl	175 125 150 175 150 160 175 150 160 175 150 177 150 170 150 170 150 270 350 150 2100 270 350 150 2100 200 150 200 150 200 150 200 150 200 150 200 150 201 150
Rover John, N. S., brown a cu. ft., f.o.b. Quebec and Vermont rough building purposes, per c.ff For ornamental work, cu. ft. Granite paving blocks, 8 in. x4½ in. per M. Gran te curbing stone, 6 ir lineal foot. **Roofing (** square*). " red. ** purple. ** purple. ** in adding green to the store of th	TE. TOPONTO. MONTFOAL. 18 00 20 00 10 00 00 00 00 00 00 00 00 00 00 00	Hydraulic Cements.— Thorold, per bhl	175 125 150 175 150 160 175 150 160 175 150 160 175 150 175 150 170 150 150 2700 3500 1500 2100 40 50 80 200 150 200 150 200 150 80 100 100 8ARE. ations to builders for nails 2 25 175 AND CUT SPIKES. 2 30 185 2 40 100 2 45 105 2 70 2 20 3 305 2 45 3 325 2 75 g advance.
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River John, N. S., brown a cu. ft., f.o.b. Quebec and Vermont rought building purposes, per ciff for ornamental work, cu. ft. Granite paving blocks, 8 in. x4½ in. per M. Gran te curbing stone, 6 ir lineal foot. **Read Eagle State Rought	TE. TOTONIO. MONIFORI. 18 00 20 00 18 00 70 80 18 00 25 00 18 00 70 80 18 00 25 00 18 00 70 80 18 00 25 00 18 00 70 80 18 00 25 00 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 00 70 80 18 10 12 81 19 10 12 81 10 12 8	Hydraulic Cements.— Thorold, per bhl	175 125 150 175 150 160 175 150 160 175 150 160 175 150 175 150 170 150 170 150 270 350 150 2100 270 350 150 2100 200 150 200 150 200 150 200 150 201
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Rover John, N. S., brown a cu. ft., f.o.b. Quebec and Vermont rought building purposes, per c.ft For ornamental work, cu. ft. Granite paving blocks, 8 in. x4% in. per M. Gran te curbing stone, 6 ir lineal foot. **BLA* Roofing (** square*). " red. " purple. " unlading green unlading green to the stone of the st	TE. TOPONTO. MONTESAI. 18 00 20 00 10 00 70 8 80 10 00 6 50 10 00 70 8 80 10 00 70 8 80 10 00 70 8 80 10 10 10 10 10 10 10 10 10 10 10 10 10 1	Hydraulic Cements.— Thorold, per bhl	175 125 150 175 150 160 175 150 160 175 150 160 175 150 175 150 170 150 1500 2700 3500 1500 2100 40 500 80 200 150 200
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