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CANADIAN CONTRACT RECORD

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

EVERY THURSDAY

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

VOL. 6.

JULY 25, 1895

No. 25.

THE CANADIAN CONTRACT RECORD,
PUBLISHED EVERY THURSDAY
As an Intermediate Edition of the "Canadian Architect and Builder."

Subscription price of "Canadian Architect and Builder" (including "Canadian Contract Record"), \$2 per annum, payable in advance.

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NOTICE TO CONTRACTORS

ALEXANDRIA, ONT., WATERWORKS

Sealed tenders will be received until one o'clock p. m. FRIDAY, AUGUST 2ND, 1895, addressed to D. A. McDonald, Reeve, for furnishing material and performing the labor necessary for the construction complete of a

SYSTEM OF WATERWORKS FOR THE VILLAGE OF ALEXANDRIA, ONT.

The work to be done includes the furnishing:

- 279 tons cast iron pipe 8 in. to 4 in. in diameter.
- 20 hydrants.
- Steel stand pipe 100 x 14 feet.
- 500,000 gal. compound duplex engine.
- 60 horse power boiler. Pumping station and the laying of 3 miles of mains.

Bids will be received for the above in whole or in part. The lowest or any tender not necessarily accepted. A certified cheque for 5% of the amount to accompany each tender.

Plans and specifications can be seen and blank forms of tender secured at the village council chamber and at the office of the Engineers, 137 Broadway, New York.

D. A. McDONALD, Reeve.

ALEXANDER POTTER, Engineer.

TENDERS

will be received by the undersigned, up to 12 o'clock on WEDNESDAY, JULY 31ST, for the various trades, including ironwork, required in the

ERECTION OF A STORE BUILDING

on the northwest corner of Yonge and Queen streets, for P. Jamieson the Clothier. The lowest or any tender not necessarily accepted.

The plans and specifications may be seen on and after Wednesday, July 24th.

CURRY, BAKER & CO., Architects, etc.,
70 Victoria Street, Toronto.

TO CONTRACTORS

Tenders will be received at the office of the undersigned until 12 noon, SATURDAY, AUGUST 3RD, for the excavation, concrete, brickwork, carpenter work, painting and glazing, steel construction and metallic roofing required in the erection of a

CAR SHOP

60 x 330 feet, for the Canadian General Electric Company, Ltd., at the works, Peterboro, Ont.

Plans and specifications can be seen at the office of the architects. The lowest or any tender not necessarily accepted.

STRICKLAND & SYMONS, Architects,
35 Adelaide St. E., Toronto.



Notice to Contractors

Tenders will be received by registered post, addressed to the City Engineer, Toronto, up to 11 o'clock a.m. on SATURDAY, AUGUST 3RD, 1895, for the following works:

CEDAR BLOCK PAVEMENT

On Argyle Street, from Dundas Street to Gladstone Avenue.

BRICK PAVEMENT

On Amelia Street, from Sumach Street to Parliament Street.

On Selby Street, from Sherbourne Street to Huntley Street.

ASPHALT PAVEMENT

On St. Patrick Street, from McCaul Street to Beverly Street.

On Victoria Street, from Adelaide Street to Queen Street.

CONCRETE SIDEWALK

On east side of St. George Street, from Hoskin Avenue to Bloor Street.

Specifications may be seen and forms of tender obtained on and after Monday, July 27th, 1895, at the office of the City Engineer, Toronto.

A deposit in the form of a marked cheque, payable to the order of the City Treasurer, for the sum of 5 per cent. on the value of the work tendered for up to \$1,000 and 2½ per cent. for the value of the work tendered for over that amount, must accompany each and every tender, otherwise it will not be entertained.

The tenders must bear the bona fide signatures of the contractor and his sureties or they will be ruled out as informal.

The committee do not bind themselves to accept the lowest or any tender.

DANIEL LAMB,
Chairman Committee on Works.

Committee Room, Toronto, July 23, 1895.

Counties of York and Peel

TENDERS FOR MASONRY

Tender endorsed "Tenders for Bridge at Craig's," will be received by the undersigned up to 12 o'clock noon of TUESDAY, AUGUST 6TH, 1895, for the construction of two stone abutments for a bridge over the Etobicoke River on the Base Line at Craig's, between the Counties of York and Peel.

Plans and specifications may be seen at the office of the undersigned, and at the County Clerk's office, Brampton, County of Peel, on and after July 22nd, 1895.

The lowest or any tender will not necessarily be accepted.

By order,
JAS. McDUGALL, C.E.,
Court House, Adelaide St. East., Toronto.

County Engineer's office, July 16th, 1895.

CONTRACTS OPEN.

SPRUCEDALE, ONT.—Hubert's shingle mill will be rebuilt.

CHICKNEY, N. W. T.—Debentures will be issued for building a school.

FREDERICTON, N. B.—The tower of St. Paul's church will be rebuilt.

WALKERTON, ONT.—A \$10,000 town hall will probably be built here.

BENSFORT, ONT.—Wm. Smyth will erect a saw and shingle mill here.

SARNIA, ONT.—It is proposed to expend \$18,765 on new pavements this summer.

BERLIN, ONT.—The Breithaupt Leather Co. propose enlarging their tannery this year.

CARBERRY, MAN.—The by-law to raise the sum of \$11,000 to build a school house has been carried.

SUSSEX, N. B.—The erection of a cold storage warehouse, at a cost of \$15,000, is being considered.

PARRY SOUND, ONT.—The Council is considering the question of granting an electric light franchise.

LINDSAY, ONT.—The Board of Education will advertise for tenders at once for enlarging the gymnasium building.

BLEINHEIM, ONT.—James L. Wilson, architect of Chatham, has prepared plans for the new Presbyterian church here.

WINDSOR, ONT.—Alex. Campbell is preparing to erect a brick block.—Tenders will be asked for the Vera Place sewer.

KALSO, B. C.—The Council propose erecting a council chamber, fire hall and police station, a site having been purchased.

OWEN SOUND, ONT.—The Town Council will be asked to provide \$2,000 for alterations to the Collegiate Institute building.

ST. THOMAS, ONT.—The Council will ask for tenders for electric street lighting with 90 arc lights of 2000 candle power for a term of eight years.

QUEBEC, QUE.—The agreement between Mr. H. J. Beemer for the construction of an electric railway along the

streets of this city has been signed, and work will be proceeded with at once.

PEMBROKE, ONT.—Mr. G. M. Bayly, architect, of Ottawa, is preparing plans for extensive alterations and additions to Thos. Hale's residence.

NIAGARA, ONT.—The treasurer of the town, Mr. R. Wilkinson, invites proposals until the 26th inst. for the purchase of \$8,000 5 per cent. debentures.

MOOSE JAW, N. W. T.—Seymour Green, Secretary, for the municipality, will receive tenders until the 7th of August for the purchase of \$4,000 debentures.

PRESTON, ONT.—C. R. Hanning invites tenders until August 1st for erecting a bath-house in this town, from plans prepared by F. W. Mellish, architect, of Galt.

GRAVENHURST, ONT.—Mr. John Galt, C. E., of Toronto, has estimated the cost of a waterworks system for the town at \$18,000, and a new electric light plant at \$8,500.

ST. JOVITE, QUE.—It is said that a large syndicate has purchased the water power on Riviere au Diable here, for the purpose of erecting a pulp factory of considerable capacity.

KINGSTON, ONT.—It is the intention of the rectory lands committee to replace the frame buildings on west side Bagot street, between Brock and Johnston streets, with brick dwellings.

NEW WESTMINSTER B. C.—The City Council is negotiating with Mr. C. D. Rand for the construction of the Fraser river bridge, and it is probable an agreement will be reached at an early date.

ROSSLAND, B. C.—A. E. Humphreys and Martin King propose to form the Trail Creek Tramway Co., to build a tramway from the mouth of Trail Creek to this village, and then to the Iron Horse mineral claim and other points.

BUCKINGHAM, QUE.—H. T. Hazen, C. E., has been surveying for a system of water power here, the proposition being to utilize the water of the Lievre river. The right is owned by D. and A. McLaren, of Ottawa and Buckingham.

TORONTO JUNCTION, ONT.—Messrs. H. A. Lazier & Co., of Cleveland and Toledo, Ohio, have purchased the Barnum Wire & Iron Works property here, and propose to extend the building to meet the requirements of a large bicycle factory.

WOODSTOCK, N. B.—Mr. Kinney, C. E., of New York, estimates the cost of a sewerage system for the town at \$30,000, and the ratepayers will be asked to sanction an expenditure of \$25,000 for the work, covering the most populous sections of the town.

LONDON, ONT.—Improvements are to be made to the London West dyke by building a sloping earth embankment in front of the present breakwater. Councillor Hammond, Chairman of the Board of Works, has the matter in hand, and will shortly call for tenders for the work.—McBride & Jones, architects, are asking for tenders until the 30th inst. for alterations to Knox church, South London.

ST. JOHN, N. B.—The Common Council have resolved to make improvements to the city pier and warehouse, at a cost of \$4,000.—G. E. Fairweather, architect, is asking for tenders for building St. Jude's church.—At the last meeting of the Board of School Trustees, the question of building new schools was considered, some of the members urging the erection of a large central school.

VANCOUVER, B. C.—C. Johnson, C. E., of this city, is said to have successfully formed a hydraulic company which will begin operations on the Fraser river at Lillooet, and will expend the sum of \$55,000 on a plant.—It is reported that Mr. C. D. Rand has received word from the London syndicate, formed to carry through the Fraser Valley and Burrard

Inlet railway, to the effect that the necessary funds will be forthcoming to proceed with the work.

WINNIPEG, MAN.—The City Council has given notice of the proposed construction of a sewer on Gunnell street, from Logan avenue to Henry avenue, at a cost of \$1,600.—The reduction works at Rat Portage and about eight mining locations have been purchased by E. Brusewitz, of London, England. It is the intention to equip the reduction works with the most improved mining machinery at once, and also to construct extensive improvements on the mining locations purchased.

BROCKVILLE, ONT.—It has been decided by the authorities to enlarge St. Vincent de Paul hospital. The new building will be 75 x 35 feet, to accommodate 40 patients.—Excavations have been commenced for the foundation of one of the piers for the International railway bridge across the St. Lawrence river between Brockville and Morristown, N. Y. Engineer W. B. Smellie is in charge of the work. It is expected that considerable progress will be made in construction between this time and winter.—G. A. Allan, architect, is asking for tenders for fitting up a chemical laboratory at the Collegiate Institute.

HAMILTON, ONT.—Building permits have been granted as follows: Robert Thompson, brick dwelling on Queen street south, cost \$1,000; Charles Mills, alterations to 65 King street east, cost \$1,000.—Surveyors are making the final survey of the Toronto, Hamilton and Buffalo railway between Hamilton and Toronto, and the work will likely be put under contract within a fortnight.—Robert Clohecy, architect, is asking for tenders until Friday, the 26th inst., for the erection of a brick residence on Emerald st. south, and until the 27th inst. for the erection of two brick stores and a brick residence on King street east. Plan may be seen at Mr. Clohecy's office.—It is reported to be the intention of Birley Bros. to erect next season a large hotel at Burlington Beach on the site of the one destroyed by fire last week.

TORONTO, ONT.—The School Board of East Toronto invite competitive plans for a twelve roomed public school building one section consisting of four rooms, to be built at once, and the cost of said section not to exceed \$6,000. J. P. Wheeler, Secretary.—The recommendation of the City Engineer to lay macadam pavements on Oak, Sackville and River sts. has been referred to the Board of Works.—The Court of Revision has confirmed the assessments for macadam roadways on Duchess street; Adelaide street, Church to Jarvis; Farley avenue, Grange avenue and St. Vincent street and for a brick pavement on Amelia street, and an asphalt pavement on St. Patrick street.—Building permits have been granted as follows: High School Board, alterations and additions to Jarvis street Collegiate Institute, cost \$12,000; Separate School Board, 2 storey brick school on Winchester street, cost \$9,000; Thos. Alison, 2 storey brick addition, rear 25 Wood street, cost \$1,200; J. Francis Brown, architect, pair s. d. 2 storey and attic bk. dwellings, 16 and 18 Charles st., cost \$3,600; Corporation of Toronto, 2 storey bk. fire hall, rear Lombard st., cost \$4,300; Gooderham & Worts, bk. fire engine house, cost \$1,000.—Ground has been broken at the northeast corner of St. George st. and Prince Arthur ave. for a large residence for Hon. Mr. Jones, of the Massey Harris Co.

MONTREAL, QUE.—The litigation which has been pending between the municipal authorities of St. Louis du Mile End and the Montreal Water & Power Co., in regard to the water supply, has been settled, and the corporation will commence work at once laying the necessary mains.—The Water Committee of

the City Council has recommended that the 30-inch main be extended to the reservoir, a distance of 9,540 feet, at a cost of \$85,860, and that \$40,000 be granted for repairs to mains and connections.—C. St. Jean, architect, is preparing plans for the Chaplain's residence for the Sisters of the Good Shepherd. Estimated cost \$9,000.—The Montreal Park and Island Railway Co. have plans completed for the Lachine line, nine miles in length, and the contract will be given out in a few days. The St. Laurent line will also be started in the near future.—Mr. E. T. Chambers is likely to erect a summer residence at the extreme west part of Upper Lachine.—P. A. Lariviere, W. E. Blumhart, H. C. Bellow, I. Macdonald and H. F. W. Bellow are the promoters of a scheme for the erection of a large auditorium building, to be situated between Sherbrooke, St. Denis, Ontario and St. Hubert streets.—Building permits have been granted as follows: R. Mackay, conservatory, cor. Sherbrooke and Redpath streets; J. MacDuff Lamb, additions to house, Mauce st.; O. Faucher, stone residence, 3 stories, corner Dorchester and St. Matthew sts., cost \$20,000; P. McLaughlin, shop and dwelling, Rachel st., cost \$2,300; Massey-Harris Co., Ltd., 3 storey warehouse, corner St. Paul and Duke sts., \$12,000.

OTTAWA, ONT.—The board of the McLeod street church have decided to have plans prepared for a new church, with a seating capacity of 1,000.—Mr. G. M. Bayly, architect, has prepared plans for alterations to J. R. Booth's lumber office.—The by-law to provide for paving Rideau street with asphalt has been finally passed by the City Council. The work will cost \$55,518.—The Dominion Parliament have assented to the following bills, which have become law: to incorporate the International Radial Railway Company; respecting the Winnipeg Great Northern Railway Company; to incorporate the Hamilton and Lake Erie Power Company; to revive and amend the Acts to enable the City of Winnipeg to utilize the Assiniboine river water power; to incorporate the James' Bay Railway Company; to incorporate the Lindsay, Haliburton, and Mattawa Railway Company; respecting the Kingston and Pembroke Railway Company; respecting the Shore Line Railway Company; respecting the South Shore Railway Company; respecting the Quebec, Montmorency, and Charlevoix Railway Company; respecting the St. Catharines and Niagara Central Railway Company; to incorporate the Grand Falls Water Power and Boom Company; respecting the Clifton Suspension Bridge Company.—A resolution has been passed by the Dominion Parliament, permitting the Hudson Bay Railway Company to change their starting point from Winnipeg to Portage la Prairie or Gladstone, and dividing the subsidy of \$80,000 into two parts, the company to receive \$40,000 upon the completion of one-half of the road, and the balance upon completing the entire line. The Government is also authorized to transfer the subsidy for the first half of the road to some other company, which will build a line into the Lake Dauphin country, if the Hudson Bay Company fail to build this first half of their line.—T. Rankin is preparing plans for several workmen's houses on King street west.

FIRES.

The saw and flour mill at Holstein, Ont., owned by W. Y. Petrie, was totally consumed by fire on the 18th inst.—At Burlington Beach, Ont., on the 17th inst., fire destroyed the Ocean House, and the G. T. R. station. The former was owned by the Birley Estate, and was insured for \$13,000.—The residence of Thomas A. Temple, at St. John, N. B., was consumed by fire on the 19th inst. Insurance,

\$3,000.—The fertilizer factory of M. Farquhar, at Toronto Junction, Ont., was burned on Monday last. Loss, \$10,000; partially insured.—Stanley & Dight's grain warehouse at Lucan, Ont., has been destroyed by fire.

CONTRACTS AWARDED.

PRESTON, ONT.—Clare Bros. & Co. are supplying a large heater for a church at Farnham, Que.

MITCHELL, ONT.—The tender of Hill & Company, of this town, at \$875, has been accepted for an iron bridge over the Thames river.

OTTAWA, ONT.—G. M. Bayly, architect, has awarded the contract for building a three house terrace on Frank street for Wm. Hay, cost \$6,000.

HALIFAX, N. S.—Rhodes, Curry & Co. of Amherst, have received a contract from the Halifax Electric Street Railway Co., for 14 street cars and a \$20,000 car house.

BELLEVILLE, ONT.—The contract for the construction of the St. George street sewer has been awarded to Robert Thompson and Wm. Donohue, at \$1,444.

NEW GLASGOW, N. S.—A contract has been given to W. R. McKenzie and R. Olding for the erection of a Y. M. C. A. building in this town, to cost about \$10,000.

ST. CROIX, QUE.—The contract for the extension to the cotton dye house has been let to Jas. McKenzie, the contract price being about \$7,000. The dimensions will be 60 x 62 feet, two stories high.

LONDON, ONT.—The Street Railway Company have awarded the contract for a bridge at York street to the Central Bridge & Engineering Co., of Peterboro. The work is to be completed by September 14.

DARTMOUTH, N. S.—A. G. Gates has been awarded the contract for rebuilding the residence, in this town, of Professor B. Russell. He has also the contract of erecting the new W. P. C. hall on Quarl street.

ST. JOHN, N. B.—The Board of Works received tenders as follows for the erection of Newman's brook bridge: James Fleming, \$3,170; John A. Jones, \$3,090.80;

(Continued on page 4.)

WILLIS CHIPMAN, B. A. Sc.,

M. Can. Soc. C. E.; M. Am. Soc. C. E.; M. Am. W. W. Ass'n.

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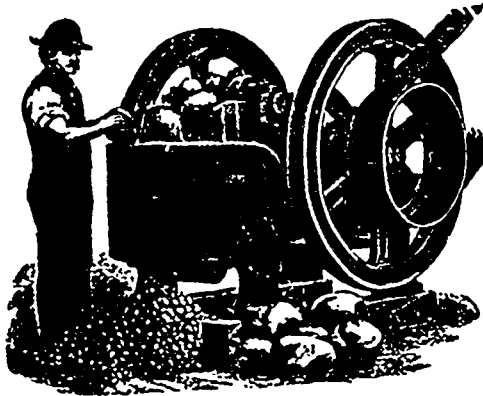
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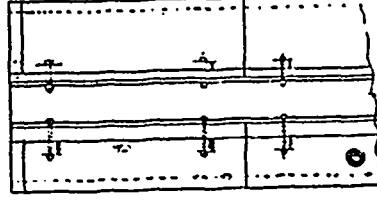
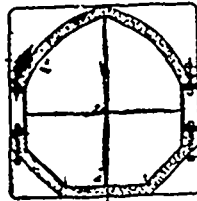
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Wm. Lewis & Son, \$1,885. The latter tender has been recommended for acceptance.

MONTREAL, QUE.—W. E. Doran, architect, has awarded contracts for a residence on Sherbrooke st. for Thos. Collins, as follows: Masonry, Hughes & Brisson; brickwork, A. Gauthier; carpenter and joiner's work, John O'Leary; other trades not let. Same architect has awarded contract for additions and alterations to a shop on Bleury st. for John Scanlan to T. & D. Kneen, general contractors.

HAMILTON, ONT.—The Jail and Court House Committee have recommended the acceptance of the following tenders for the new jail building: masonry and brickwork, Geo. F. Webb, \$13,399; carpenter work, R. Press, \$2,980; electric wiring, Lowe & Farrell, \$415.50; ironwork, Jas. Brayley, \$3,675; heating and plumbing, Fairley & Stewart, \$4,598; painting and glazing, Hiram Barker, \$625; galvanized iron work, Wallace & Son, \$293; slating, Thos. Irwin & Son, \$733; plastering and concrete floors, Frank Eden, \$2,700. The City Council will hold a meeting on Monday next to confirm the above awards.

TORONTO, ONT.—The contract for a cedar block pavement on Oxford street, from Spadina avenue to Augusta avenue, has been let to Burns & McCormack, at \$1,009.—The Public School Board has adopted the report of the Property Committee awarding contracts for school buildings and additions, as published in our last issue, with an amendment that the contract for heating and ventilating the new school at Rosedale and the Borden street addition be given to the Smead-Dowd Co., instead of the Toronto Furnace & Crematory Co.—The Bennett & Wright Co., of this city, have been awarded contracts for plumbing, heating and electric fixtures for the Ontario Ladies' College, Whitby, and Albert College addition, Belleville.—The successful tenderer for the city bonds is Heidelberg, Ickelmheimer & Co., of New York, at 97.06, making a total of \$1,118,014.40.

NEW COMPANIES.

OTTAWA, ONT.—Chaudiere Machine & Foundry Co., seeking incorporation; capital, \$15,000; applicants, T. G. Brigham, A. Gerard and others.

VICTORIA, B. C.—British Columbia Market Company, incorporated; capital \$50,000; incorporators, P. R. Brown, F. W. Gilphin and John Irving.

NANAIMO, B. C.—Nanaimo-Rossland Mining Company, incorporated; trustees, N. Westwood, J. McGregor, Alfred Jenkins, W. K. Leighton and Thomas Kitchen; capital stock, \$500,000.

WINDSOR, N. S.—Britannia Mining Co., seeking incorporation; capital stock, \$150,000; to carry on general mining operations; applicants, E. Churchill and L. Shaw, of Pansport, N. S., Daniel McVicar, of Tenecape, and others.

TORONTO, ONT.—Toronto Dredging & Contracting Co., incorporated; capital \$50,000; incorporators, F. H. Doty, E. F. Doty, F. W. Doty, A. J. Doty and Mary L. Doty.—Oliver Typewriter Co., incorporated; capital, \$50,000; incorporators, Hon. G. W. Ross, F. S. Spence, J. L. Hughes, A. W. Briggs, of Toronto, and others.—The Cork Company of Canada, incorporated; capital, \$150,000; to manufacture corks and other articles from corkwood. Among the incorporators are J. A. Gindron, and L. V. Rachand, of Toronto, and John Howard, of London.—Canadian Electric Forging and Smelting Co., applying for incorporation; capital, \$500,000; applicants, G. D. Burton, of Boston, W. J. Morrison and W. A. Johnson, of Toronto, and others.

W. J. Garratt, of the firm of Worthington, Garratt & Armstrong, plumbers, Toronto, is dead.

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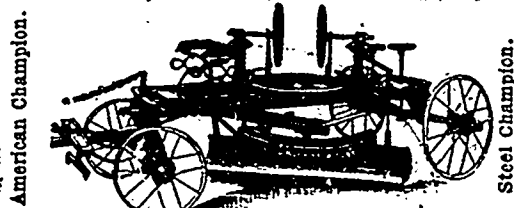
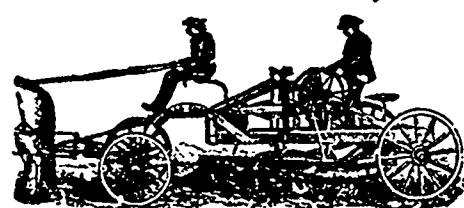
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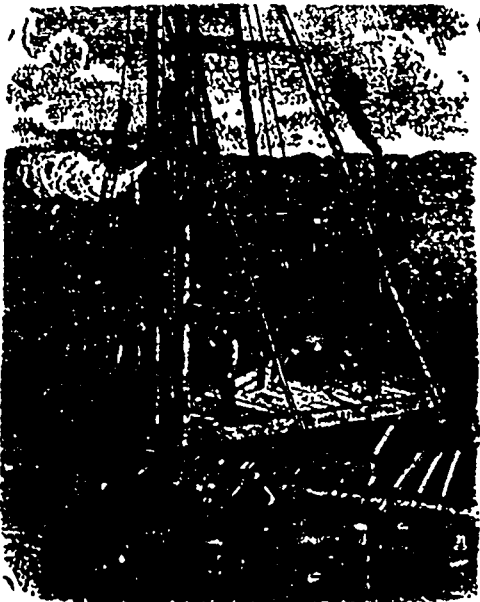
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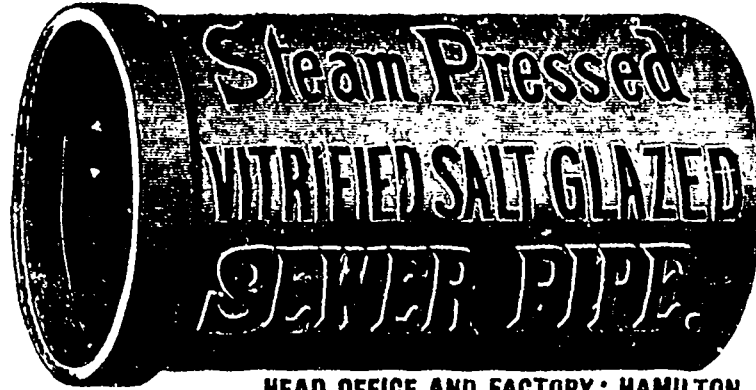
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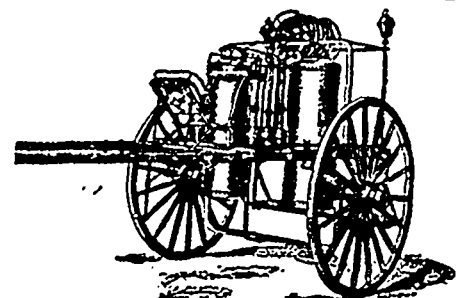
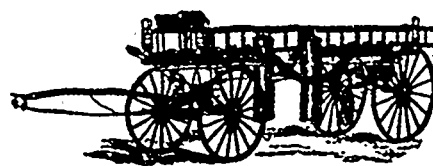
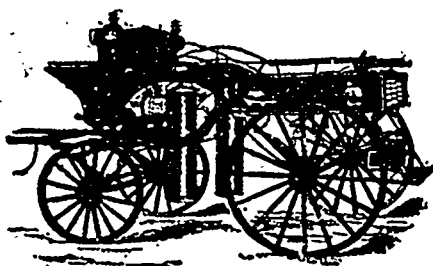
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PARK AND GARDEN ARCHITECTURE.

Some explanation of what is really meant by idealism in the garden and park may be advisable. Well, it is simply man's conception of beauty expressed in wood, stone, tree, shrub, greensward, and gravel walk—the happy union of things which are allowable because they are necessary, useful, or agreeable in themselves, arranged so as to form a pleasing whole. As J. D. Sedding happily expresses it, "it is man's report of earth at her best, man's love of loveliness carried to excess, his craving for the ideal grown to a fine lunacy." Compare the modern park, with its curling walks and drives leading to nowhere, its lakes in all sorts of apparently unnatural and impossible situations, cast iron fountains, bandstand, and even grandfathers' clocks of the same material, unlovely girder bridges, little mountains and miniature Alps, its assortments of rockery stones, arranged like so many gravestones, weak and sickly conifers sadly proclaiming their alienage; compare all this with the stately avenues, grand parterres, quiet alleys, shady walks, sparkling fountains, and all the various associations of the old work, and you get some idea of the gulf which separates the two schools of landscape gardening, the new and the old. Of course the requirements of the public park to-day are not the same as those which had to be incorporated in the old gardens, but the spirit which actuated these old designers might be imported into the modern work, and so make our parks in some reasonable degree on a level with our boasted modern art culture. To attain to the excellence of this old work it is necessary that everything, small or great, be designed in harmony; that everything, whether building, planting trees, shrubs, expanse of water, grass lawns, etc., be designed or planned with due consideration to its fitness, proportion, and balance, without incongruity or discord. To attain this completeness and unity of the whole implies that to a knowledge of architecture, the chief essential, must be added a study of the technics of good gardening and of arboriculture. The true park must, like most other inventions, rest on the foundation of good planning, worked according to whatever characteristic is to have predominance, whether seclusion or recreation, or an equal combination of both. On level ground it is comparatively easy to shut off the various recreation grounds into proper compartments, the eye never being high enough to obtain a panoramic view, but in dealing with a site with considerably

varying levels much would depend upon the disposal of these features. The trampled grass of the cricket crease, the cinder path of the cycling course, and the excited noise of the foot-batters, are disturbing elements which require careful handling, but, as a rule, everything which is calculated to induce physical recreation should receive careful attention. The requirements of the surrounding population would, of course, decide what to go in for, but the following are specially worthy consideration; lake for boating and bathing ponds; children's playground; cycling tracks; football grounds; cricket creases; bowling greens; archery courts; quoit grounds; gymnasiums for both sexes; tennis lawns.

Of the things to specially avoid, the following are very important:

In Designing—Unreality and pretence.

In planning—Narrow walks and drives. On level ground, serpentine lines; on undulating ground, lines which do not express the contours. Main walks which do not suggest directness and a study of the public convenience; the arrangement of football grounds in the centre of a park, unless the park is of considerable size.

In Architecture—All appearances of jerry in construction, and veneer in ornament, spiked hurdle or barbed wire fences, cast iron gates and pillars, lodges copied from the "architecture made easy" books, stock-pattern bandstands, fountains, and vases, conservatories which appear to be built entirely of glass, rustic wood bridges and summer houses, ornamentally designed and conspicuously placed cast-iron urinals, and, generally speaking, stock-pattern anything.

In Landscape Formation—Bad drainage, in trenching, the bringing of subsoil to surface, in formation of beds for plantations, less than 1½ ft. of soil, slopes which rise or fall immediately from the edges of drives or walks, white spar rockwork. Where it is necessary to introduce rockwork, a professional rockbuilder should always be employed.

In Planting—Narrow belts, dotting of single trees, especially small growing conifers on lawns; small specky plantations; a too free use of ornamental conifers and evergreens to the exclusion of hardwoods; avenues which have a variety of trees in the same line.

Generally—Flower-beds around the bases of trees or plantations, clipping trees and shrubs with shears, excepting where formalism is required.

ARTIFICIAL STONE.

The last annual report of the Street Department of Boston, Mass., contains a description of some artificial stone work, which is the first example, says the Engineering Record, of the use of this material on any considerable scale, that the city has yet made. It was put down for a way or foot path serving to connect two parallel streets about 240 feet apart, but with a difference of about 45 feet at the point where it was used. The path is about 138 feet long and 11½ feet wide. It consists of seven flights of artificial stone steps connected by platforms of the same

material, and there is an additional flight of 13 steps at one end. The artificial stone in the walks, steps, and retaining walls cost about \$2,123. The iron railing and fencework cost about \$557. The excavation, foundations, stone retaining walls, and wooden fences were furnished by the street department, and cost about \$2,907. The report states that it makes a fine-looking job, and thus far the experience is satisfactory. The contract price for the wall was 36 cents per cubic foot; for the steps, \$1.15 per lineal foot, for the platforms, 30 cents per square foot; and 10 cents per square foot for surfacing.

Mr. Charles Devlin, of Pembroke, Ont., is said to have invented an apparatus to prevent the escape of sewer gas from sewers. It is in the form of a box, to be placed under the sewer grate, and has an ingeniously attached "door" or covering at the bottom, so arranged that the slightest pressure from water passing through the sewer grating will open it, but immediately after the water has passed through it will close automatically. The sewer will thus be sealed up hermetically, and no gas can escape into house or street.

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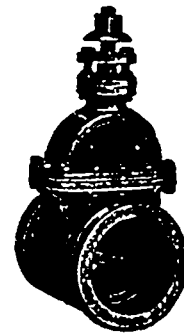
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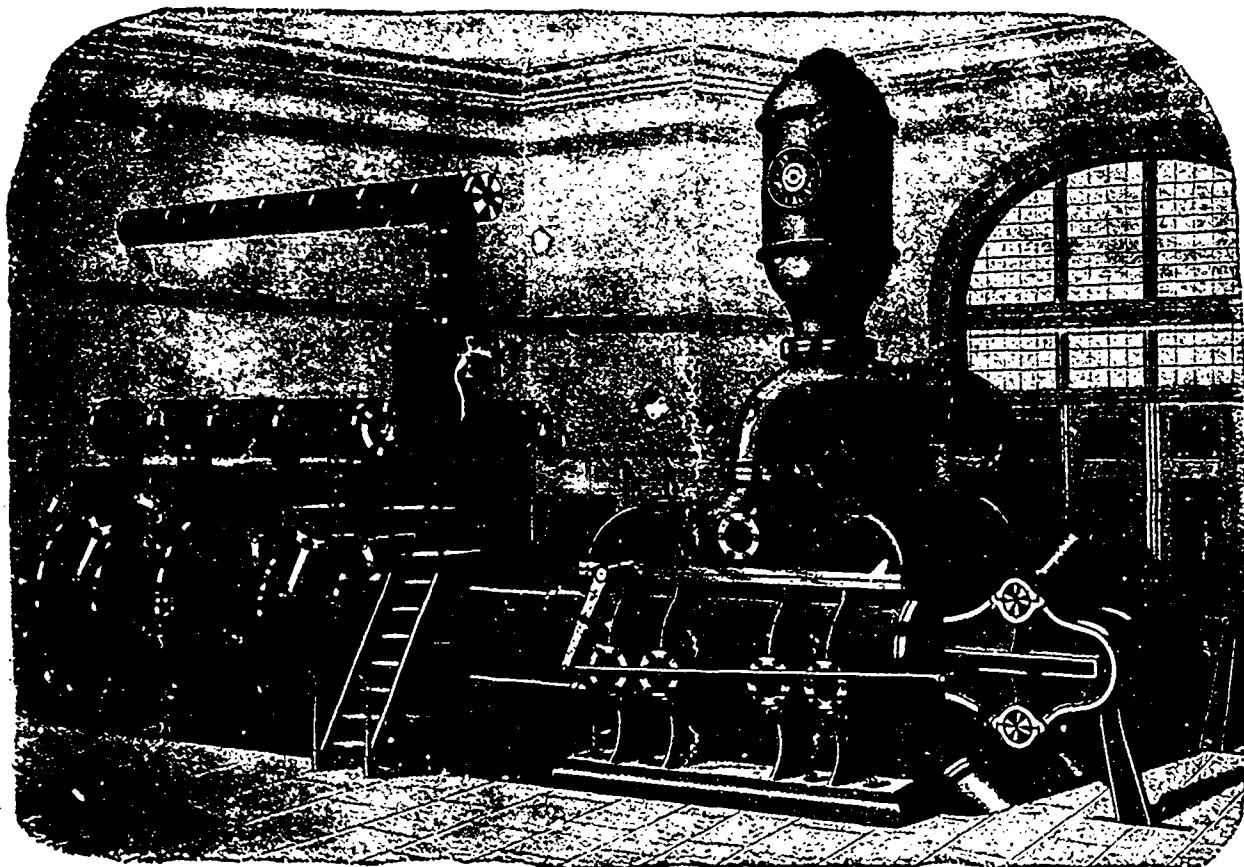
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