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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 THROUGHOUT CANADA.

Vol. 5.

MAY 10, 1894

No. 14

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.

G. H. MORTIMER, Publisher,
CONFEDERATION LIFE BUILDING, TORONTO.
Telephone 2162.
New York Life Insurance Building, Montreal.
Bell Telephone 2199.

Information solicited from any part of the Dominion regarding contracts open to tender.
Advertising Rates on application.

At its Convention held in Toronto, Nov. 20 and 21, 1889, the Ontario Association of Architects signified its approval of the CANADIAN CONTRACT RECORD, and pledged its members to use this journal as their medium of communication with contractors with respect to advertisements for tenders.

The following resolution was unanimously adopted at the First Annual Meeting of the Province of Quebec Association of Architects, held in Montreal, Oct. 10th and 11th, 1890: "Moved by Mr. Perrault, seconded by A. F. Duroin, that we the Architects of the Province of Quebec now assembled in Convention being satisfied that the CANADIAN CONTRACT RECORD affords us a direct communication with the Contractors, Resolved, that we pledge our support to it by using its columns when calling for Tenders."

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.

Notice to Contractors

CANADIAN CONTRACTOR'S HAND-BOOK

A new and thoroughly revised edition of the Canadian Contractor's Hand-Book, consisting of 150 pages of the most carefully selected material, is now ready, and will be sent post-paid to any address in Canada on receipt of price. This book should be in the hands of every architect, builder and contractor who desires to have readily accessible and properly authenticated information on a wide variety of subjects adapted to his daily requirements.

Price, \$1.50; to subscribers of the CANADIAN ARCHITECT AND BUILDER, \$1.00. Address
G. H. MORTIMER, Publisher,
Confederation Life Building, TORONTO.
Montreal Office:
64 Temple Building.

BARTER AND EXCHANGE.

This department has been opened for the speedy barter and exchange of second-hand plant or material, or small lots of new or second-hand materials by builders and others not regularly engaged in the sale of such articles. Advertisements other than those of the above description will not be inserted.

RATES—12 words and under, 15 cents; each additional word, 1 cent (three figures count one word); on two or more subsequent insertions a discount of 10 per cent. will be allowed. Not more than four insertions of an advertisement can be granted.

Replies to advertisements may be addressed to a box at this office, in which case necessary stamps must be sent for re-mailing replies. Advertisements for this department must be prepaid.

FOR SALE—Wood and glass partition, 9 feet high, 18½ feet long, including door 3 x 3 feet. Pine, natural finish, ground glass in panels. In use little more than a year. Cost over \$50. Will be sold at a sacrifice. Box 50, CONTRACT RECORD office.

NOTICE TO CONTRACTORS

Whole tenders will be received by the Trustees up to 6 o'clock p.m., WEDNESDAY, MAY 23RD, 1894, for the erection of a

BRICK SCHOOL HOUSE

for School Section No. 7, Toronto Township. Plans and specifications may be seen at T. W. Goldthorp's residence, Lot No. 5, near the Lake Shore Road. The lowest or any tender not necessarily accepted.

T. W. GOLDTHORP, Sec. and Treas.,
Port Credit, Ont.

SOULANGES CANALS

Notice to Manufacturers of and Dealers in Portland Cement.

Sealed tenders addressed to the undersigned and endorsed "Tenders for Portland Cement," will be received at this office up to noon on Monday, the 14th May, 1894, for the supply and delivery of 2,000 barrels of Portland Cement. Specifications and forms of Tender can be obtained by the parties tendering, at the office of the Chief Engineer of Railways and Canals, Ottawa.

In the case of firms there must be attached the actual signatures of the full name, the nature of the occupation and place of residence of each member of the same, and further, an accepted Bank Cheque for the sum of \$100 must accompany the tender. This accepted cheque must be endorsed over to the Minister of Railways and Canals and will be forfeited if the party tendering declines entering into contract for the work at the rates and on the terms stated in the offer submitted. The accepted cheque thus sent in will be returned to the respective parties whose tenders are not accepted.

The Department does not, however, bind itself to accept the lowest or any tender.

By order,
(Sgd.) J. H. BALDERSON,
Secretary.
Dept. of Railways and Canals,
Ottawa, 7th May, 1894.

TENDERS

FOR MATERIAL AND SUPPLIES

Notice is hereby given that sealed tenders addressed to the City Engineer and endorsed "Tenders for—," as the case may be, will be received by registered post only up to the hour of eleven o'clock a.m. on WEDNESDAY, 16TH OF MAY, 1894, for the undermentioned material, supplies, and work required by the Department during the year, viz.:

EXCAVATING AND LAVING PIPE
SPECIAL CASTINGS.
HYDRANTS.
STOP VALVES, 6 IN. AND 12 IN.
CAST IRON PIPE.
LEAD PIPE.
BRASS AND BRONZE CASTINGS.
LUMBER.
GENERAL STORES.
BRASS WORK FOR HOUSE SERVICES.
IRON AND STEEL.
IRON STOP COCK BOXES.
RUBBER VALVES, BOOTS, ETC.
LUBRICATING OILS.
OAK TOPS.
COAL AND WOOD.

Specifications and forms of tender and full information may be obtained at the City Engineer's office.

All tenders must be made up in the proper form and bear the signatures of two good and sufficient sureties who will, in the event of same being accepted, enter into a bond for the proper fulfilment of the contract. A deposit, cash or marked cheque, must accompany all tenders as per specifications.

The lowest or any tender not necessarily accepted.
DANIEL LAMB,
Chairman Committee on Works,
City Hall, Toronto, April 30, 1894.

NOTICE TO CONTRACTORS.

Sealed tenders, addressed to the undersigned and endorsed "Tenders for the Iron Work of the Girder Iron Bridge over the Bonaventure River in the Village of Renfrew," will be received until MONDAY, THE 21ST DAY OF MAY, A.D. 1894, at 12 o'clock noon. Plans and specifications can be seen at the office of the undersigned, in the village of Renfrew, or of J. L. Morris, C.E., Pembroke.

Each tender must be accompanied by an accepted bank cheque made payable to the order of James Craig, Reeve of Renfrew, equal to five per cent. of the amount of the tender, which will be forfeited, if the party decline to enter into a contract when called upon to do so, or if he fail to complete the work contracted for. If the tender is not accepted the cheque will be returned. This Corporation does not bind itself to accept the lowest or any tender.

By order,
JAS. K. ROCHESTER,
Clerk of Village of Renfrew.
Renfrew, April 9, 1894.

CONTRACTS OPEN.

COLLINGWOOD, ONT.—A new public school is to be erected here.

ROSSEAU, ONT.—The Orangemen intend building a new hall this summer.

NORWICH, ONT.—The corporation will shortly invite tenders for an iron bridge.

PRESCOTT, ONT.—The sum of \$5,000 will be spent by the town in fire appliances.

QU'APPELLE, N. W. T.—A new railway station will shortly be erected here.

NANAIMO, B. C.—Mr. A. Campbell contemplates the erection of a new hotel.

BOTHWELL, ONT.—Messrs. Hodgins & Co., of London, will build a creamery here.

WOODSTOCK, ONT.—A new curling and skating rink is to be erected, at a cost of \$3,700.

VICTORIA, B. C.—The City Council propose to borrow the sum of \$100,000 for sewerage purposes.

REVELSTOKE, B. C.—It is said the C. P. R. will build a new steel bridge over the Columbia river this summer.

MOOSE JAW, N. W. T.—The Methodists are contemplating the erection of a new brick church this summer.

PILOT MOUND, MAN.—It is understood that Mr. S. Rowe contemplates erecting an hotel here this summer.

WINNIPEG, MAN.—It is proposed to expend over \$150,000 in macadamizing and gravelling the streets of this city.

FALLS VIEW, ONT.—Tenders will be received at Loretto Convent until the 15th inst., for the erection of a chapel.

WINDSOR, ONT.—It is said the C. P. R. will build a new depot here on the site of the present one, at a cost of \$12,000.

LONDON, ONT.—A building permit has been granted to D. H. Tennant for a brick house, corner Fullerton and Ridout streets, to cost \$2,500.

STRATFORD, ONT.—Whole or separate tenders will be received at the office of Mr. Alex. Hepburn, City Engineer, until Thursday the 17th inst., for the erection of a new tower on the City Hall.

PEMBROKE, ONT.—A new guild room in connection with Holy Trinity Church is to be erected on the corner of Pembroke and Bromley streets.

SEVERN BRIDGE, ONT.—Mr. R. Draper is contemplating the erection of several dwellings.—Mr. Geo. Higgings has purchased a building site.

NEW CAMPBELLTON, C. B.—Mr. J. C. Dumaresq, architect, of Halifax, has prepared plans for a fine dwelling for J. T. Burchell, manager of New Campbellton mines.

DIGBY, N. S.—Mr. H. B. Allen will receive tenders until Saturday, the 19th inst., for the erection of an I. O. O. F. hall in this town. Plans may be seen at the office of H. B. Allen & Co.

SMITH'S FALLS, ONT.—By-laws to borrow \$2,000 for the purchase of an electric fire alarm system, and \$8,500 for the Elgin Ward school will be voted on by the ratepayers on Saturday next.

NEW WESTMINSTER, B. C.—The Board of Trade of this city has memorialized the Dominion Government urging the improvement of river navigation, the construction of the Mud Bay Canal, and the erection of a new drill shed.

NEWCASTLE, N. B.—Mr. J. C. Dumaresq, architect, of Halifax, has prepared plans for an hotel for a joint stock company, cost \$10,000; for remodelling Methodist church, cost \$2,000, and for remodelling dwelling for Mr. Creaghan.

EGANVILLE, ONT.—Father Dowdall will shortly visit Montreal for the purpose of arranging for the preparation of plans for the proposed new R. C. church, estimated to cost from \$35,000 to \$40,000.—A site has been purchased for a new town hall.

KINGSTON, ONT.—The School Board will ask the Council for an appropriation of \$20,000 to erect a new eight roomed school in the vicinity of Pine street.—It is said the erection of a new church is under consideration by St. Andrew's congregation.

WATFORD, ONT.—Messrs. Gibson & McLeay, school trustees, visited London last week in connection with the rebuilding of the school house. It is the intention to erect a six roomed building. Mr. W. C. McBride, of London, will submit plans to the Board at the next regular meeting.

OTTAWA, ONT.—City Treasurer Kirby has purchased the property at No. 34 Maria street and will erect two stores thereon.—The C. P. R. are taking steps to secure the completion of the Montreal and Ottawa railway in this city. It is said the company will build the road as far as Caledonia Springs this summer and complete the remainder next year.

HALIFAX, N. S.—J. C. Dumaresq, architect, is preparing plans for the following work: remodelling a building on Argyle st. for Wm. H. Hopgood, cost \$3,500; remodelling a building on Grafston st. and for new brick building, Duke st., for Mathew Scanlan, cost \$6,000;

residence on south Park st. for Mr. Rebecca Starr, cost \$4,000. He has also prepared plans for a brick office for Dr. Kirkpatrick, Pleasant st., cost \$2,000.

PORTAGE LA PRAIRIE, MAN.—Mr. George Browne, architect, of Winnipeg, will shortly complete the plans for the proposed new court house and addition to the jail here. The foundations will be of stone, basement, ground floor and first story of Portage brick, with Calgary stone trimmings, and roof of slate, size of court house, 75 x 54 feet, jail addition 36 x 30 ft.

MONTREAL, QUE.—Messrs. Perrault & Lesage, architects, will receive tenders at their office until the close of next week for the following work: two stores and dwellings, Notre Dame street, corner St. Felix, for Mr. Ed. Marcil; two stores and dwellings and one bank building, corner Notre Dame and Mountain streets, for Mde. Théorét, for a branch of Bank of Hochelaga; two stores and dwellings, Notre Dame street, near des Seigneurs street, for Mr. John Kane; two stores and dwellings, corner Notre Dame and Maple streets, for Mr. C. A. Briggs. These buildings will each be three storeys high, with cut stone front.—The Health Committee has recommended to Council that tenders be asked for a site for the proposed contagious diseases hospital.—Messrs. Perrault & Mann, architects, have prepared plans for rebuilding St. Antoine market. The cost is estimated at \$19,000. The Market Committee will ask the Council for an appropriation for the purpose.

HAMILTON, ONT.—Robert Clohecy, architect, invites tenders until 6 p. m. tomorrow, (Friday) for the excavating, brickwork, stonework, and cut stone required in making additions to St. Joseph's hospital.—The City Engineer has been instructed by the Board of Works to prepare an estimate of the cost of paving James and King streets with Trinidad asphalt, with vitrified brick between the tracks.—It is said to be the intention of the Philadelphia Engineering Company, who have been awarded the contract for constructing the smelting works in this city, to sub-let all the contracts for work which can be done satisfactorily in Canada. Mr. F. W. Fordon, of the Engineering Company is expected to arrive in the city shortly to complete arrangements.—Building permits have been granted as follows: E. Harris, two brick dwellings on Hughson street, between Augusta and Yonge streets, cost \$2,500; R. R. Waddell, brick residence on the northeast corner of Hughson and Hannah streets, cost \$5,000, F. Stinson, brick dwelling on Cannon street, between Victoria and East avenues, cost \$1,000.

TORONTO, ONT.—The City Engineer has been instructed to prepare an estimate of the cost of constructing the proposed high level bridge over the Don, for use when the question comes before the Privy Council at Ottawa.—A light house and range lights are to be erected on the eastern end of the island this summer.—It is said that Mr. H. A. Massey proposes to lay a granolithic sidewalk on the north and east sides of the Massey Music Hall on Shuter street.—We learn that Ex.-Ald. Pells is considering the erection of a new theatre on his property at the south-west corner of King and Frederick streets, on which there are at present several stores. Plans are now in course of preparation, and should the idea be carried out, building operations will be commenced in a few weeks. The building will be of brick, with brown stone front, with seating capacity for 2,000.—The recommendation of the City Engineer regarding the proposed widening of the Queen street subway, was referred back to the Board of Works at the Council meeting on Monday last, it being deemed unwise to proceed with the work until all the land damages had been ascertained.—Tenders are wanted for new store front and show cases for Messrs. Guinane Bros. Plans may be seen on the premises, 214 Yonge street.—The plans for Mr. Robert Simpson's proposed new dry goods establishment at the corner of Queen and Yonge

streets have been filed with the City Commissioner. It will be six stories and basement and will cost probably \$80,000.—The City Council has given notice to ratepayers that it is proposed to construct the following work: asphalt pavement on Winchester street, from Parliament street to Ontario street, cost \$7,440, and on Parliament street, from Queen street to Gerrard street, cost \$25,000; brick pavement on Cecil street, from Spadina avenue to Beverley street, cost \$9,570 and on Wellesley place, from Wellesley Crescent to its north end, cost \$3,350; cedar block pavement on Gildersleeve avenue, from Sumach street to its north end, cost \$800, and on Amelia street, from Parliament street to Sumach street, cost \$3,900; repairing macadam roadway on Jarvis street, from King street to Queen street, cost \$7,100.—Mr. F. H. Herbert, architect, has prepared plans for altering and remodelling the stores No. 5 and 7 Richmond st. w., to be fitted up as a jewellery establishment for Messrs. Kent Bros. The same architect is preparing plans for alterations to a pair of residences on Berkeley st. Tenders for which will be called shortly.—Building permits have been granted as follows: Thos. Davis, 2 story bk. stable, rear of Royal Hotel, Front and George sts., cost \$1,000; R. Simpson, 6 story bk. store, s. w. corner Queen and Yonge sts., cost \$80,000; R. Jose, Queen st. w., 2 story bk. add. rear 21 Clipse ave., cost \$1,000.

FIRES.

The plant and works of John Russell, brick manufacturer, King street east, Toronto, were badly damaged by fire on Saturday night last, to the extent of \$20,000. The engine and a brick making machine were destroyed.—The Electric Light Co.'s power house at Nanaimo, B. C., was destroyed by fire on the 6th inst., together with McKenzie's furniture factory, Hirst Bros' general store, and two private dwellings. The loss to the electric light works is estimated at \$50,000, and the insurance \$12,000.—Price Bros' extensive lumber mills at St. Thomas, Montmagny County, Que., were burned on Sunday last. Loss, \$20,000.—Desire Begin's tannery at Levis, Que., has been destroyed by fire. Loss, \$3,000.—The Upper Ottawa Improvement Company's steamer Dauntless, valued at \$25,000, was burned on Saturday last.—The Cameron Hotel at Stayner, Ont., occupied by John Coleman, was gutted by fire recently. Loss, \$3,000; insurance, \$2,000.

CONTRACTS AWARDED.

RENFREW, ONT.—Mr. J. W. Munro, of Pembroke has been awarded the contract by the corporation for the masonry of the proposed new bridge over the Bonnechere river. The contract price is \$5,900.

HALIFAX, N. S.—J. C. Dumaresq, architect, has let contracts as follows for building St. Mary's Convent: masonry, Jas. K. McDonald & Co.; carpentry and other trades, Mr. Power, cost \$1,500.

NEW WESTMINSTER, B. C.—The Coquitlam Dyking Commissioners recently awarded the contract to Messrs. McLean Bros. to dyke 3,300 acres of the Pitt Meadows, about nine miles from this city. The contract price is between \$65,000 and \$70,000.

OTTAWA, ONT.—Messrs. Warren & Sons, of Toronto, have been awarded a contract by the trustees of St. Andrews church for a new pipe organ, to cost in the neighborhood of \$7,000.—The contracts for constructing plank and granolithic sidewalks throughout the city have been awarded to Mr. Patrick Burns and the Canadian Granite Co. respectively.

MONTREAL, QUE.—Messrs. Duman & Co., of this city, have been awarded the contract for the construction of twelve miles of the Nova Scotia Southern Railway from Shelburne, N. S.—Messrs. Perrault & Lesage, architects, have awarded the contract for excavation, drainage, masonry, and brickwork of four stores and dwellings, corner Notre Dame and Versailles streets, for Fabien Lafloiet,

to Messrs. Martineau, Turcot & Bronovau, and for the steel work to the Dominion Bridge Co. The same architects have also awarded the contract for the excavation, drainage and masonry of a large three story store on St. Lawrence street to Messrs. Ouimet & Labelle, the steel work being also secured by the Dominion Bridge Co. Other trades not yet awarded.

TORONTO, ONT.—Contracts for the erection of the new disinfecting station adjoining the Isolation hospital have been awarded as follows by the Local Board of Health: masonry, Wickett Bros., \$829; carpentering, James Hutchison, \$297; painting and glazing, Gilmour & Casey, \$49; concrete flooring, Wickett Bros., \$150.—The following are the tenders received by the Commissioners of the Counties of York and Peel for the proposed new bridge at Silverthorne's, between the counties: Weddell Bridge and Engine Works, Trenton, \$1242.50; G. & J. Brown Mfg. Company, Belleville, \$1,300; Central Bridge & Engineering Company, Peterboro', \$1001.44; King Bridge Company, Cleveland, Ohio, \$1224; Dominion Bridge Company, Montreal, \$1125; Hamilton Bridge Company, \$1100. The contract was awarded to the Dominion Bridge Company, of Montreal, on the recommendation of the engineer. The Central Bridge Company were the lowest tenderers, but as they desired to submit their own specifications their tender was not entertained.

BUSINESS NOTES.

J. T. Quinn, plumber, Montreal, has assigned.

Thibault & Charest are starting business as plumbers in Montreal.

Lecompte & Fils, plumbers, Montreal, have assigned with liabilities of about \$12,000.

An effort is being made to re-organize the St. Thomas Pipe and Foundry Co., of St. Thomas, Ont.

Mr. J. B. Boustead has been appointed permanent liquidator of the Mimico Sewer Pipe & Brick Co., of Mimico.

The plumbing firm of Snoddy & Cook, Hamilton, has been dissolved. Mr. David Snoddy becoming sole proprietor.

Lieut.-Col. John Stewart, of Ottawa, contractor for the new drill shed in Toronto, died suddenly of heart failure on the 4th inst., at the residence of his son in Toronto. Deceased was 57 years of age, and had been connected with the erection of many of the public buildings throughout Canada.

DOES THE ESTIMATE COVER THE COST?

IT often seems strange, says a writer in Painting and Decorating, to many men in some branches of the building trade, that though they are apparently making money, the end of the year finds them poorer than when they began, and less able to meet their liabilities. They examine carefully their estimates made for each particular job and find that their calculations as to time and material are correct, and, if anything, have erred on the safe side. They have allowed an apparent profit of ten, fifteen or twenty-five per cent. on the actual cost of the work, yet still they are constantly growing poorer. The real reason is that the fixed charges of the business are forgotten, and these, even when most economically managed, eat up more than the supposed profit allowed for each job.

Take the case of a master painter and examine the charges which he should portion out to each job, but which usually he does not. There is the master painter's own time, shop rent, wear and tear on wagons, scaffolds and ladders, a certain proportion of the original cost of his horse, as well as the charges of stabling and feed, liability insurance to cover the danger of accidents to his own men and to others, and the unavoidable waste of materials.

As tools, implements, horses, and wagons will last but a few years, it is only fair to charge off a certain amount of the cost, each year, to the expense account; and this amount must be divided out among the work done, as a proportional part of the cost of the job.

It rarely happens, even in the best regulated shops, that these fixed charges amount to less than twenty-five per cent. of the cost of the work, hence the man who has only calculated a supposed profit of fifteen per cent. and has failed to take these items into consideration, really has done his work at a loss of ten per cent.

It is not because low bidders purposely offer to do work at a loss that makes them such dangerous competitors. It is mainly because they are ignorant of the actual cost of doing the work. Education on matters of business is badly needed by master painters everywhere.

MUNICIPAL DEPARTMENT.

ANIMAL LIFE IN WATER PIPES.

M. Locard has made an investigation of the water pipes of Paris, with a view to ascertaining the character and habits of the life there sustained, and notwithstanding the existence of which in such quantities and variety, the city is noted for the general excellence of its drinking water. Mr. Locard studied in particular the mollusks—an important item, since the animal life of this description alone found in those pipes belongs to forty-four species, all of which exist also in the rivers from which the water is taken. His investigations show that the modifying factors, in respect to their numbers and growth, are darkness and the rapidity of the current; and that the conditions are favorable to the life of mollusks is evident from the fact that colonies of the different species are very numerous, and that all individuals are very similar to each other.

Considered hygienically, M. Locard concludes that the presence of this animal life may be without any inconvenience, the fact being, indeed, that every water save that of springs contains more or less animal life, and does not become unhealthy on this account; in water pipes, however, a large number may become a danger, brought about by the death of the animals and their putrefying remains.

A SUCTION SAND DREDGE.

A notable work in its line is described by the Engineering News, namely, a suction sand dredge with a capacity of 4000 tons per hour, built by the Naval Construction and Armament Co., of Barrow-in-Furness, England, for operations on the Mersey bar. The sand-pumping machinery consists of two centrifugal pumps with 36-inch suction and delivery pipes. These pumps are on each side of a well, and draw from a T-head at the top of the suction pipe; and around this head as a trunnion the tube can be raised or lowered to suit the depth of the water, and a ball and socket joint gives a certain amount of lateral motion. The suction nozzle is turned over at the bottom, with its aperture almost at right angles to the axis of the tube. The hull of the dredge is 325 feet long by about 20 feet 6 inches deep and 46 feet 10 inches wide, the load-draft being 16 feet and 4 inches. She has twin-screw engines and a speed of ten knots loaded. The sand is pumped into hoppers, and operations show that the latter may be filled at the rate of 100 tons per minute.

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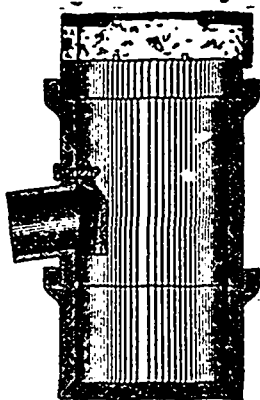
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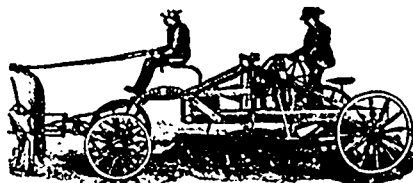
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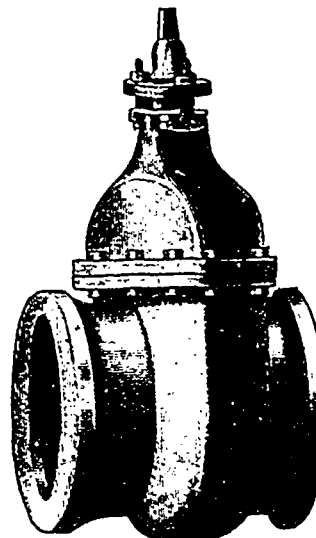
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