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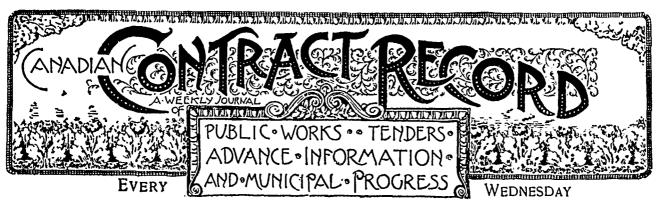
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This paper reaches every week the Town and City Clerks, Town and City Engineers, County Clerks and County Engineers Purchasers of Municipal Debentures and leading Contractors in all lines throughout Canada.

JUNE 22, 1898

Vol. 9.

THE CANADIAN CONTRACT RECORD,

PUBLISHED EVERY WEDNESDAY As in Intermediate Edition of the "Canadian Architect and Builder."

Subscription price of "Canadian Architect and Builder" (including "Canadian Contract 4/ Record"), \$2 per annum, payable in advance. C. H. MORTIMER, Publisher, CONFEDERATION LIFE BUILDING, TORONTO.

Telephone 2362.

Information solicited from any part of be Dominion regarding contracts open in tender.

Advertising Rates on application. New York Life Insurance Building, Montreal. Bell Telephone 2209.

SEALED TENDERS

Will be received after the 23rd inst., and until SATUR-DAY, JULY 2ND, for the work required in alterations 1.83

Pair of Houses in Isabella Street. Plans and specifications may be seen at the office of the architect, to whom tenders are to be addressed. The lowest or any tender not necessarily accepted. F. S. BAKER, Architect, 90 Yonge Street, Toronta.



WANTED TENDERS ul_ **STEEL BRIDGE IN LINDSAY** 20

Tenders will be received by the undersigned until JUNE 30711 INSTANT, for a Steel Superstructure to be placed on the stone piers of the Lindsay Street Bridge, on plans and specifications to be submitted by the ten-derer. Bridge to consist of two spans of about fifty feet each in length, width of roadway 17 feet, and sidewalk about five and one-balf feet.

Bridge to consist of two spans of about fifty feet each in length, width of roadway 17 feet, and sidewalk about five and one-half feet. Tenders must be accompanied by a marked cheque for ten per cent. of amount of tender, payable at a chartered bank in Lindsay.

k in Lindsay. F. KNOWLSON, Town Clerk, Lindsay, Ont.

CITY OF WINNIPEC

WATERWORKS

Proposals, addressed to W. G. Bell, Chairman Fire, Water and Light Committee, Winnipeg, Man., will be received at the office of the undersigned up to 8 30 oclock on

MONDAY EVENING, THE 25TH DAY OF JULY, 1898,

FOR THE

Construction and Supply of a System of Wells and Pumping Plant

for the supply of 4,000,000 gallons of water daily to the reservoirs of the City. Information and specifications may be obtained from H. N. Ruttan, City Engineer.

Ç. J. BROWN, Çity Çlerk,

Last -

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TERWORKS 3 200 Listowel, Ont.

Scaled tenders, addressed to the undersigned, will be received by this Corporation up to 8 p.m. of

Wednesday, the 29th June, 1898

Separate or bulk tenders wanted, covering all material and labor complete, for POWER HOUSE, STEAM BOILER, ELEVATED STORAGE TANK, WATER MAINS, VALVES, HYDRANTS, &c. Full particulars can be had and plans and sponfica-tions seen at Listowel, or at the head office of the Con sulting Chief Engineer, JOHN GALT, C.E. and M.E., Canada Life Building, Toronto. Marked bank cheque, payable to the Corporation, for 6 per cent. of tender, must accompany bid The lowest or any tender not necessarily accepted.

2.277 W.E. BINNING, Town Clerk.

Toronto Public Schools

TO BUILDERS AND CONTRACTORS

Sealed tenders, whole or separate, will be received, iddressed to the undersigned, up to MONDAY AT IN FU

for the several works required for the enlargement of the following schools :--

BROCK AVE. DEWSON STREET, GIVENS STREET, CLINTON STREET. DUFFERIN, RYERSON.

Also for the usual midsummer REPAIRS, ALTERA-TIONS AND IMPROVEMENTS in all trades at various other schools. Plans and specifications may be seen and all informa-tion obtained at the office of the Superintendent of Buildings, Mr. C. H. Bishop, on and after Monday, the zoth inst., between the hours of 8 a.m. and 5 p.m., including Saturday. Each tender must be accompanied by the deposit mentioned in the said specifications and forms of tender. The lowest or any tender will not necessarily be accepted. JAMES BURNS,

JAMES BURNS, Chairman of Property Committee. K. 279



Tenders for the Supply of Cast Iron Pipe, Specials, Hydrants, &c., for the Purpose of a Waterworks 10 P System.

Scaled tenders, addressed to W. G. Bell, Esq., Chair man of the Committee on Fire, Water and Light of the City of Winnipeg, for the supply of the Cast Iron Pipe, Specials, Hydrants, Valves, &c., required for the estab-lishment of a Waterworks System in the City of Winni-peg, will be received at the office of the undersigned up to 8.30 p.m. on

Monday, 8th August, 1898.

City Clerk's Office, Winnipeg, June 8th, 1698,

Lotal # 26 50 Δ.

Tenders will be received up to JUNE 20711 from all trades for the erection of a Pair of Houses on College Street and a Single House on Spadina Road. The lowest or any tender not necessarily accepted. GEO. M. MILLER & CO., Architects, 18 King Street East, Toronto.

H - TENDERS

Ruce

No. 21.

TENDERS FOR **Concrete Sidewalks**

Tenders addressed "Adam Dawson, Esq. Chair-man Street and Budge Committee, Peterborough "will be received at this office up to 4 o'clock p.m on MON-DAY, JULY 411, 1898, for about 5,000 lineal feet of oranolathe or Cement Sidewalks Specifications and forms of tender may be obtained from S. Belcher, Esq., *Town Engineer Tenders* must bear bona fide signa-tures of the contractors and their sureties. A deposit in the form of a marked cheque, payable to the order of the Town Treasurer, for the sum of 5 per cent. on the value of the work tendered for, must accompany each tender. The lowest or any tender not necessarily ac-cepted. tender. cepted.

5. R. ARMSTRONG, Town Clerk. Town Clerk's Offire, Peterborough, June 2c.h, 1898.



TENDERS and

July 1st, 1898,

July 1st, 1sts, for the erection of a STEEL, BRIDGE over Fairchild's Creek, in the Township of Brantford, 100 feet c. to c., with fourteen-foot readway. Also TWO STONE ABUTMENTS. Separate tenders required, one for the Bridge and one for Abutments, also for whole work. Contractors also requested to state difference in price if they furnish stone or if furnished by Council. Specifications and full particulars may be had at the office of John Fair, Towiship Engumer, Brantford, R. M. WILSON, Clerk Tp. Brantford, Brantford, Ont.

2 his

FOR **CRANOLITHIC WALKS**

Tenders will be received by registered post only, ad-dressed to R. H. McKay, Chairman of Streets Com-mittee, Walkerton, up to 4 oclock p.m. on SATUR-DAY, JULY 2ND, 1868, for the construction of Grano-luthe Walks on the following streets Durham Street North, about 300 feet long, to feet wide, Durham Street South, about 24 feet long, to feet wide, also street creasings; Collborne Street, West Side, about 500 feet long, s feet wide. Jackson Street, Fast Side, about 900 feet long, 5 feet wide, Jackson Street, West Side, about 355 feet long, 5 feet wide, and street cross ings. ,28 350

Side, about 1155 teet 1016, 5 teet 1016, 5 teet 1016, 5 Specifications may be seen and forms of tender ob-tained at the Town Clerk s office, Walkerton. A de point in the form of a marked cheque, payable to the 35 order of the Town Treasurer, for the sum of 10/2 per cent. of the value of the work tendered for, must accom-pany 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 chierrained Lenders must bear the bona fide signatures of the contractor and his surcues, or they will be ruled out as informal. The lowest, or part of, or any tender not necessarily received.

accepted. W. S. GOULD, Town Clerk,

Walkerton, Ont., June 21st, 1898,

Specifications, hills of quantities, &c. may be ob-tained on application at the office of the City Engineer, Civic Offices, Winnipeg. The lowest or any tender not necessarily accepted. L. 2.75 C. J. BROWN, City Clerk.

/ MTENDERS 3 Suo

CONTRACTS OPEN.

YARKER, ONT. - John Carroll will erect a new residence.

EIORA, ONT.—The County Council has decided to erect a new iron bridge.

OWEN SOUND, ONT.-Granoluthic sidewalks will be laid on several streets.

GLENBORO, MAN.—The citizens are agitating for the erection of a fire hall.

ST. GEORGE, N.B.— J. S. Clark is erecting a factory, 85×50 feet, and two stories high.

DESERONTO, ON1.—The Rathbun Co. are preparing to rebuild their terra cotta works.

DUNDAS, ON1. — It is probable that George Case will build a new hotel on King street.

PARRY SOUND, ONT.—Fred. Walton is excavating for a residence to be built on Church street.

SOURIS, MAN.—McCulloch & Herrior have made arrangements to erect a large flour mill here.

GLADSTONE, MAN. — The by-law to raise 5,000 for school purposes was carried last week.

SUTTON, QUE.—The village will borrow \$13,000 for the construction of a waterworks system.

LOUISVILLE, QUE. – The town council have decided to establish a municipal wine and cider factory.

OSNABRUCK CENIKE, ON1.-William Warner is building a new house, corner Church and Snow streets.

LEVIS, QUE.—It is proposed to build reservoir, etc., to provide for a water supply. J. E. Kay is mayor.

GALT, UNT.—The McLachren Heating & Ventilating Co. has invited tenders for a stone addition to its factory.

PARKHILL, ONT.—H. C. Baird & Co. are considering the question of installing an incandescent lighting system.

SF WORTH, ONT - Tenders are wanted by July 6th for a clock to be placed in the town hall tower Wm. Elliott, town clerk.

MOULINETTE, ON1.-R. W. Samwell, rector Christ Church, will receive tenders up to June 30th for the building of a hall.

JOLIETTE, QUE. — Tenders for the purchase of \$25,000 of debentures will be received by A. L. Marsolais up to June 27th.

BROCKVILLE, ONT.—The city purposes constructing sewers on Wall, Wellington, Blake and Murray streets, to cost about \$5,000.

CARBERRY, MAN.— James Kilnes purposes erecting two brick stores. It is also expected that a flour mill will be built this year.

VICTORIA, B. C.—Tenders have been invited for the new warehouse to be erected on Hastings streets for E. J. Prior & Co.

AYLMER, QUE.—It is probable that a fire alarm system will be installed.—P. G. Nash intends building three residences on Main street.

BFFTON, ONT H B Hunt, late of the Goldie & McCulloch Co., Galt, has purchased a site here and intends erecting a flour mill thereon.

RAT PORTAGE, ONT. Mr. Hilliard has made arrangements to rebuild the opera house, providing certain concessions are given by the town.

ST. THOMAS, ONT. — The city engineer has been instructed to invite tenders up to Monday, July 4th, for the brick paving of Talbot street.

DAUPHIN, MAN.—Cade & Gable, of Treherne, purpose establishing a flour mill here, and have asked for a free site and exemption from taxation.

RIMOUSKI, QUE. - Rev. Canon Bouillon is preparing plans for enlarging the

cathedral here and also for the completion of the interior decorations.

KEMPIVILLE, ONT.—The ratepayers have sanctioned a loan of \$10,000 for the purpose of extending matured debentures and making repairs to streets.

NEWMARKET, ONT. — The William Cane & Son Manufacturing Company have sold their electric light plant, and will replace it with a new system.

CALGARY, N.W.T.—A by-law to grant a bonus of \$25,000 to the C.P.R. for the purpose of establishing repair shops here was carried by the ratepayers last week.

MEDICINE HAT, N.W.T.-Francis F. Fatt, secretary-treasurer of the municipality, will receive tenders up to July 14th for the purchase of \$5,500 of debentures.

TORONTO JUNCTION, ONT.—Charles F. Wright, of Dundas street, will build a brick residence on High Park avenue, from plans prepared by Simpson & Ellis, architects, Toronto.

SHERBROOKE, QUE.—The Catholic School Commissioners have decided to erect a new school in the east ward, to cost \$8,000. Plans for same will be invited.

BRANTFORD, ONT.—The city council have decided to put in a furnace in the city hall, and tenders for the work will be asked.—It is proposed to build an addition to the fire hall.

PICTON, ONT.—Power & Son, architects, of Kingston, will superintend the erection of the new edifice for the First Methodist church congregation; estimated cost \$22,000.

MEAFORD, ONI. — Tenders for the erection of a brick school house at the Presbyterian church will be received up to June 29th. Plans by J. C. Forster, architect, of Owen Sound.

ASHCROFT, B. C.—The Ashcroft Water Light & Power Co. will erect a power house on the Bonaparte river, about three nules from this place, and install an electric light and power plant.

SUMMERSIDE, P E I.—We are informed that the introduction of sewerage and waterworks systems has been postponed, although it is thought that the work will be carried out before long.

BFRI IN, ONT — Mr Knechtel has prepared plans for alterations to the high school building in this town, to cost $3_{3,-200}$; plumbing system and hot water heating apparatus included.

WATERLOO, ONT.—The Berlin Waterworks Co. propose to establish a number of artesian wells in this town for the purposes of a water supply, and are now taking tenders on the work.

STRATFORD, ONT. -E. W. Whitworth & Co., of Liverpool, England, was in the city recently with a view to establishing a factory here. Should the scheme be proceeded with, buildings to cost \$50,000 will be erected.

PERTH, ONT. — William McDiarmid has decided to rebuild, and will put up a brick block two storeys and basement, with fireproof walls.—It is proposed to construct a permanent sewer on Drummond street.

VANCOUVER, B. C. — Edward J. Howell, of London, England, representing the Vancouver Smelting Co., states that the company are now considering the erection of a smelter at a suitable point in British Columbia.

OSHAWA, ONT.— The Ontario Malleable Iron Co. has commenced the erection of a new building, brick, stone foundation, 150×200 feet.—It is understood that an extension will be built to the Bishop Bethune College.

BROOKE, ONT.—Tenders for the construction of the Durham Creek drain will be received by Benjamin Richardson, commissioner, up to Monday, July 11th. The tenders will be opened at the council meeting to be held at Alvinston on that date.

ROSSLAND, B. C.—Tenders close June 30th for the purchase of \$35,000 of debentures. W. McQueen, city clerk.—F. C. Gamble, provincial engineer, has selected a site for the new court house, which will be of frame, two storeys, cost \$6,000.

BRANDON, MAN.—R. E. A. Leech, Secretary Trustee Board of the Methodist church, is taking tenders this week for the erection of the basement walls, stone and brick, for the new church. The archutect is W. H. Shillinglaw, of this place.

WILKESPORT, ONT.—Ora Bishop will receive tenders up to June 30th for the construction of the McCoy drain, in the township of Sombra. Plans at engineer's office in this village.—The Sombra council will build a bridge over the Becher drain.

CHATHAM, N. B.—It is proposed to erect at an early date a new high school building, containing ten school rooms and an assembly room, cost \$20,000. It is also proposed to build a wing to the lower school house, for which tenders will be asked at once.

LONDON, ONT.—The city council has appointed a deputation to visit Berlin and Hamilton to inspect the sewage disposal system in vogue at these places.—Tenders for building an annex to the main building of the Western Fair Association will be accepted up to June 25th. Thomas Browne, secretary.

TRURO, N. S.—H. H. Eaton, Chairman of Committee, will receive tenders up to August 1st for constructing fire escapes and putting in new door at the jail.—Plans are being prepared for the enlargement and improvement of the Brunswick street Methodist church.

SAULT STE. MARIE, ONT.—It is said that a Mr. Eveden, of Bournemouth, England, will establish an extensive shingle mill on Camp D'Or Island, near this place.—It is rumored that the Sault Ste. Marie Pulp & Paper Co. contemplate building a nickel refinery at this place, to cost \$1,000,000.

FREDERICTON, N. B.—The Fredericton Bridge Co. have decided to erect a new station at the Fredericton end of the bridge.—The proposed improvements to the pumping station, including new boiler, have been approved of, and the work will proceed forthwith. — Aaron Smith is preparing to erect a residence on Westmoreland street.

BRUCEFIELD, ONT.—At a recent meeting of the council it was decided to proceed at once with the construction of the Broadfoot Creek drain. The length of digging will be five miles, and the estimated cost \$3,253. Funds for carrying out the work will be borrowed under the Municipal Drainage Act.

SIMCOE, ONT. —The county council have decided to build a wing to the County Home, at a cost of \$4,500. Tenders for this addition, including plumbing and heating, will be received by Oliver Austin up to June 30th. Plans at office of C. O. Fairchild, county engineer. – The town council is now considering the question of building a new town hall.

HULL, QUE.—Joseph Bourque, whose planing milt was burned recently, will rebuild on a larger scale.—It has been decided by the council to prepare a by-law for the construction of a permanent pavement on north side of Main street, and on Duke street, from Main to Inkerman streets, also for the construction of such other improvements as may be recommended by the Streets Committee.

KINGSTON, ONT.—The Fire, Water and Light Committee will ask for new tenders for repairs to No. 2 fire hall.—A new barracks for A battery will likely be built at Barricfield.—Power & Son, archi-

tects, want tenders by noon to-morrow (Wednesday) for additions and alterations to No. 7 Vaughn terrace, and by 6 p.m. to-morrow for improvements to residence of L. L. Henderson, corner Bagot and West streets.

West streets. WINNIPEG, MAN.—The Toronto Type Foundry Co. has purchased a three-story brick structure on Owen street, and will remodel the interior to meet their con-veniences.-The Fire, Water and Light Committee of the City Council has appointed a sub-committee to report on the plans received for the new fire hall,-The C.P.R. is now arranging the details of the new offices of the company, which will be located in the Caldwell block.

ST. JOHN, N. B.—Tenders are being taken for building the new Presbyterian church on Douglas avenue, from plans by B. Pickett, 42 Princess street. Mr. A. B. Fickett, 42 Frincess street. Mr. Pickett is also preparing plans for the en-largement of St. James church Sunday school building, for which tenders will be invited this week.—The Common Council has directed the Safety Board to make arrangements for lighting the city at the expiration of the present contract expiration of the present contract.

CHARLOTTETOWN, P.E.I.-C. P. Chappell, architect, has made plans for the fol-lowing : Departmental store, brick and stone, at Summerside, for Sinclair & stone, at Summerside, for Sinclair & Stewart; Methodist church at North Wiltshire; alterations to residence and store for J. H. Bell; warehouse for the city of Charlottetown. Tenders are now city of Charlottetown. Tenders are now being called for a Jubilee hospital, cost \$20,000, brick and stone.—The plans of C. B. Chappell have been accepted for the new P.E.I. hospital; estimated cost \$20.000.

BELLEVILLE, ONT .-- A by-law will be submitted to the electors providing for a bo.us of \$50,000 to secure the proposed rolling mill and nail and spike tactory of the Thames Iron Works, of Norwich, Conn.-In connection with the proposed roadway to Victoria Park, it was stated at last council meeting that a 40 foot span iron bridge, with roadway, would cost \$1,562, and a 60 foot span bridge \$1,897. It is probable that the work will be proceeded with. A communication was read from the council of Faraday asking that a bridge near L'Amble be either repaired or reconstructed.

QUEBEC, QUE.—A considerable sum of money will be spent in the districts of Lake St. John and Chicoutimi, the fol-lowing work being projected; Wharf at St. Alexis, cost \$4,000; dredging at Lake St. John, \$10,000; wharf at Point Esquimeur \$1500; improvements at St. Esquimaux, \$1,500; improvements at St. Fulgence, \$1,500; irepars to wharf at St. Alphonse, \$2,000; dredging the Saguenay at Chicoutimi, \$5,000; continuation of the telegraphic service on north shore of St. Lawrence, \$20,000.—It has been decided to reconstruct the R. C. church at Somer-cet from phone graphical to Tangung set, from plans prepared by Tanguay & Vallee, architects, of this city.

MONTREAL, QUE. - Senator James O'Brien has donated \$1,600 towards the building fund of the Catholic high school for English speaking boys.—An addition, five storeys, 49×30 feet, will be made to the Royal Victoria hospital, at a cost of \$16,000.—Residents of Pine avenue have projoco.—Residents of Pine avenue have petitioned for a drain, the cost of building which is estimated at \$1,600.--The rebuilding of the western abattoir on the old site has been decided upon. The company have decided to build a thor-oughly modern and up-to-date building.— The Considion Bacife But her preside The Canadian Pacific Ry. has practically decided upon building an addition to the present Windsor street depot, at an estimated cost of a quarter of a million dollars. — The Grand Trunk Railway Company, anxious to proceed at once with the erection of their new general offices on McGill street, have requested the city to complete at once an interim agreement providing for the taking over agreement providing for the taking over

at once of the site. The company hopes to begin the work of preparing the site next month.

HAMILTON, ONT .- W. W. Lachance, architect, has completed plans for a fac-tory building for E. T. Wright & Co., a two storey addition to school building at Stoney Creek, Saltfleet, and an office building and steel coal shed for Hemming & Marshall.—T. Beasley, city clerk, has invited tenders for the erection of a brick weigh house and an addition to the John street market weigh house, from plans by A. W. Peene, architect. The city clerk will also receive tenders until noon to-morrow, for a supply of meters required by the Waterworks Department.-Charles Mills, architect, is preparing plans for a four storey building to be erected on McNab street for the Hamilton Coffee & Spice Co.-A special committee of the city council has decided to engage an expert to report on the question of the purchase of a municipal electric lighting plant. — Building permits have been granted as follows: W. W. Lachance, coal shed for Henning & Marshall, cor-ner Walnut & O'Reilly streets, cost \$1,300; Charles Mills, architect, altera-tions to construct King street east, cost \$1,300; Charles Mills, architect, altera-tions to 405.415 King street east, cost \$800; St. Lawrence parish, presbytery on Mary street, cost \$4,000; S. McPhe, double brick house, corner of Victoria avenue and King William streets, for Mrs. S. Birely, cost \$2,600.—The annual meeting of the shareholders of the Hamil-ton, Chedoke & Ancaster Electric Railway Co. was held on Saturday last. It was stated that about \$30,000 of stock had been disposed of, and of stock had been disposed of, and that the construction of the road would be commenced at an early date.-Charles Mills, architect, wants separate tenders by noon of June 25th, for the erection of the following buildings for Honorable W. E. Santord: Six semi-detached residences, one large detached residence, two semi-detached dwellings, one single dwelling, alterations of a building, slating four residences, and outside painting of four dwellings.—The Sewers Committee will advertise at once for tenders for sewer pipes.

OTTAWA, ONT .- Rev. Canon Bouillon has prepared plans for an addition to be built to the building recently purchased by the Sisters of the Precious Blood from the McKay estate. It will be of wood, and will contain a dormitory and chapel. -E. F. E. Roy, secretay Department of Public Works, will receive tenders up to Friday, July 15th, for completing the harbor and river work in course of con-struction at Goderich, Ont. Plans at

office of town clerk, Goderich, H N Gray, Confederation Life Building, Tocounty council has decided to ask the government to build a bridge over the Rideau Canal to connect the village of Ottawa East with the city.-A deputation has requested the county council to rebuild the bridge at Burritt's Rapids. The prowith 50 feet span, cost \$1,500.—E. L. Horwood, architect, is preparing plans for a brick and stone residence for Fred Henry, to be erected at Skead's Mills, cost \$20,000 .- M. C. Edey, architect, has taken tenders on the carpenter work of warehouse for G. M. Garland, corner Queen and O'Conner streets.—Tenders are wanted by the Department of Public Works up to 28th inst. for electric wiring at drill hall at Halifax, N.S.-The city clerk has given notice that debentures to the amount of \$50,000, for public school purposes, will shortly be offered for sale.— Tenders closed on Monday last for the new fire station in St. George ward, from plans by F. J. Alexander, architect.-L. K. Jones, secretary Department of Rail-ways and Canals, invites tenders up to July 4th for the construction of stoney sluices or valves for lock weirs in con-nection with the Soulanges Canal. - Building permits have been issued as follows : E. A. Parson, brick veneered dwelling, Theodore street, cost \$2,000; F. G. San-derson, brick veneered dwelling, 22 Gil-mour street, cost \$3,200; L. O. Jolly, row of three houses, brick veneered, 9 Lloyd street, cost \$2,500.

TURUNIU, ONI. - At a meeting of the county council held last week, the Property Committee reported a recommendation that a new steel bridge be built between York and Peel counties. - The city engineer has recommended a brick pavement on Nassau street, from Lippincott to Bellevue avenue. - The Public School Board invites tenders up to June 27th for the enlargement of the following schools Brock avenue, Clinton street, Dufferin, Dewson street, Given street and Ryerson, also for nudsummer repairs and altera-tions at various schools.—The General Assembly of the Presbyterian church of Conside here decided that the Course Canada has decided that the Cowan avenue congregation must make arrangements for removal to another site.-Mr. F. H. Herbert, architect, is this week taking tenders for a detached residence to be erected on Deleware avenue.-E. J. Lennox, architect, will award contracts this week for extensive alterations to the Musee building on Yonge street, for a store front, and for alterations and addi-

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tions to the House of Industry .- Simpson tions to the House of Industry.—Simpson & Ellis, architects, are preparing plans for a new residence for Chas. Wright, To-ronto Junction.—The Separate School Board wants tenders by Monday next, 27th inst., for a brick school building on Caer Howell street, and for sundry repairs in connection with the various schools, including carpentry painting, glazing. in connection with the various schools, including carpentry, painting, glazing, kalsomming, re-slating blackboards and plumbing. Plans of school on application to the architect, Mr. A. W. Holmes, in the office of Mr. J. W. Siddall, Janes building. Specifications for repairs at 28th Duke street.—The question of ar-ranging for the carpets, furniture and fix-tures for the new city buildings was dis-cussed by the Board of Control on Mon-day last, and the architect received in-structions to prepare designs for the tay has, and the architect received in-structions to prepare designs for the mantels, partitions and counters for the various departmental offices, also for fit-tings for the court rooms, police court and council chamber. There was also some discussion regarding the specifications for an electric plant, the city engineer having an electric plant, the city engineer naving recommended that a competent electrical e.g.meer be engaged to design the plant. – The city commissioner has issued the following building permits: Drs. Peters and Primrose, pair semi-detached two storey and attic brick and stone dwellings, parth cide College streat pear Elizabeth storey and attic brick and stone dwellings, north side College street, near Elizabeth, cost $\$1_2,\infty\circ$; Wilson Phillips, two-storey and attic brick house, west side Bedford road, near Bernard avenue, cost $\$3,\infty\circ$; College of Dental Surgeons, three-storey brick addition to the Dental college on College of Dental Surgeons, three-storey brick addition to the Dental college on College street, cost \$2,200; M. Mc-Laughlin, 2 st. and attic bk. residence on South Drive, near Scarth road, cost \$3,500, J. C. Gibson, architect, W. J. Chick, builder; S. Clarke, 2 det. 2 st. and attic bk. houses, Howard ave., near Cal-lendar st., cost \$5,000, Mrs. Reinhardt, alterations and bk. addition, 487 Jarvis, cost \$5,000, W. Bard, architect; Massey-Harris Co., 2 story stable, n.e. corner Shaw and King sts., cost \$1,500; Puchen & Co., 2 story acid factory, w. side Par-liament, south of Esplanade, cost \$2,000.

FIRES.

The fires of the past week included the following : Residence of C. H. Widdifield at Picton, Ont.; damage, \$1,500.—Cheese and butter factory at St. Croix, county of Lothbinere, Que.; totally destroyed.—Ten dwelling houses at Edmundston, N.B. The dwelling houses at Edmundston, N.B. The owners were Joseph Moreau, Mrs. Ma-gloire Herbert (three dwellings), Alex. Sturgeon, Alphonse Cote, Henry Gagnon and T. Hever.—The Sherbrooke Yarn Mills and the Whitney Electrical Works at Sherbrooke, Que., gutted by fire; loss to the former, $\$8,\infty\infty$.—Wray & Hawk-shaw's large flour mill at Lucan, Ont., totally destroyed. The mill was recently remodelled and refitted with new ma-chinery.—The hoisting and compressor remodelled and refitted with new ma-chinery.—The hoisting and compressor house of the Asbestos & Asbestic Co., near Danville, Que.; loss heavy.—Ware-house of George D. Wood & Co. at Win-nipeg, Man.; loss several thousand dollars.—The McDougall block, corner Cumming and Simpson st., Fort William. —Machine shop of Burley & Gallighan at Bat Portage Ont —Wagen shop of T A Rat Portage, Ont.-Wagon shop of T. A. Crow, 619 Yonge street, Toronto ; loss Crow, 619 Yonge street, Toronto; lo \$3,000; building owned by W. Doane. Building at Belmont, Ont., owned by Archie McKellar.—The Oxbow Milling Company's flour mill at Oxbow, N. W. T., burned on June 20th, no insurance.

Please mention the CONTRACT RECORD when corresponding with advertisers.

CONTRACTS AWARDED.

- New school house : NERPAWA, MAN. Jones & Fufee, contractors.

MAIDEN, ONT.- Residence for John An-

derson : James Wilderspin, contractor. MORNINGTON, ONT. - Digging Patterson drain : William Connolly and John Reid, contractors, \$823.

LONDON, ONT. - New block for George Sanon: R. & J. Jackson, of Petrolea, con-tractors; building to be of pressed brick, three storeys.

PRESTON, ONT.—The Canadian Office & School Furniture Co., have secured the con-tract for office fittings for Robinson, Little & Co.'s warehouse, London, Ont.

QUBBEC, QUB. – Asphalt paving of St. Louis and St. Joseph street : Sicily Asphaltum Co., contractors. According to agreement the company are to erect works in this city.

MONTRBAL, QUB. – Contracts for water-works supplies have been let as follows : Lead pipe, James Robertson, \$98, Tin, B. J. Coghlan, \$15.98; pig lead, Montreal Rolling Mills, \$80.41; cast iron pipes, Montreal Pipe

and Foundry Co., \$33; special castings, P-Amesse, \$42.50; lumber, II. Lapointe & Co-PERTH, ONT .- The contract for an iron

bridge on the Centre road, Hibbert, has been let to A. Hill & Co.—The council of Logan township has accepted the tender of Nicholson & Bohan for digging the Nicholson drain;

& Bonan for digging the Penoison dram, price \$1,921. BARRIR, ONT.—Messrs. Kennedy & Co., architects, have let the contracts for S. Wes-ley's residence as follows: Stone work, Jas. Marshall; brickwork, Stapelton & Son; car-penter work, A. Rankin; painting, A. Brown; plumbing and heating, P. J. Moore; plaster-ing, Wm. Aintry; steel ceiling, Douglas Bros.

WINNIPEG, MAN.—\$75,000 of debentures : A. S. Drunmond, purchaser.—Tenders in connection with the new school buildings have been accepted as follows : School building on been accepted as follows: School building on Bond street site, plans by S. Hooper, archi-tect: Woods & Sutherland, general contrac-tors, \$29,336; heating and ventilating ap-paratus, Smead Dowd Warming & Ventilating Co., \$2,465. School building on Pembina street: Woods & Sutherland, contractors, \$21,562; heating and ventilating apparatus,

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Smead Dowd Co., \$2,380, J. H. G. Russe", architect. Three room building on Wellington street site : Woods & Sutherland, contractors, \$3,491.—Contracts for erection of Jubilee addition have been let as follows : Excavation, mason and brick work and plastering, Messrs. Kelly Bros. & Co., \$33,221 : carpenter work. Mason and Drick work and plastering, *incessis*. Kelly Bros, & Co., \$33,221; carpenter work, painting and tinning, Mr. John McLeod, \$17,842; heating, plumbing, ventilation, etc., Messrs, T. A. Irvine & Co., \$8,747.

OTTAWA, ONT.—Pipe sewer on Sparks and Kent streets: P. Burns, successful tenderer. The tenders submitted were as follows: Thos. McLaughlin, earth \$8 per 100 feet, rock \$20, 6-inch side drains \$5, rock in side drains \$19, brick man-holes, \$40, cost \$4,325; A. F. Frood, earth \$5, rock \$40, 6-inch side drains \$3.50, brick man-holes, \$30, cost \$5,280; P. Burns, earth \$6.98, rock \$25, side drains, \$2.98, rock \$22, man holes, \$54.90, cost \$4,237.40. \$4,237.40.

CHARLOTTBTOWN. P.E.I.-C. B. Chappell, architect, this place, has let contracts as follows: Addition to store for J. B. McDonald, brick and stone, Robert Griffin, contractor ; foundry and stone, Robert Griffin, contractor; foundry and machine shop for Bruce, Stewart & Co., engineers, etc., R. Griffin, contractor; resi-dence for G. E. Hughes, H. & S. Lowe, con-tractors; residence for Pope Fletcher, W. W. Harper, contractor; Residence for Colin Mc-Neil, Angus Martin, contractor; Prowse block, stores and offices, brick and stone, stone front, cost \$18,000, Parkman & Crabbe contractors. contractors.

TORONTO, ONT.—John E. Webb, con-tractor, has secured the contract for five storey warehouse on Wellington street west for John A. Carlaw, and for alterations to 92 Adelaide street east.—F. S. Baker, architect, 90 Yonge theat has let contracte for a brief street cast.—F. S. Baker, architect, 90 Yonge stheet, has let contracts as follows for a brick and stone residence: Masonry, Joseph Wil-liams; carpentry, W. Nash; plastering, James Petrie & Co.; painting, Joseph McCausland; iron work, W. D. Hutson & Son; roofing, II. Williams & Co.; electric wiring and bells, Galvanic Battery Works; hot water heating and plumbing not let.—Mr. F. H. Herbert, architect, has awarded the contracts for safe deposit vaults and the whole of the ordinary deposit vaults and the whole of the ordinary vault work in connection with the erection of offices for the Trust & Guarantee Co. at 16-18 King street west, to the J. & J. Taylor Safe Works, of Toronto, and the whole of the interior fittings to the Chas. Rogers & Sons Company, Limited.

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DISPOSAL OF SEWAGE.*

As you are aware, sewage varies notably in its composition according to its amount, depending upon whether the separate or continued system of sewerage exists. With the first, we deal practically only with sewage of an amount and composition definitely known; while in the combined, the amount of storm water becomes an important additional factor to be dealt with. Nowadays, when storm water is allowed to go into the sewers, it is common to arrange storm water overflows at the mouths of the local and main sewers, which will, when the sewage has reached a certain amount of dilution, allow an overflow to run into some water-course, where it may be considered a practically harmless pollution. By such methods, it at once becomes possible to arrange filtration plants for handling a definitely known amount of sewage.

Further, however, since in manufacturing towns different industries are carried on, each polluting with its wastes, as tannery refuse, pulp factory refuse, woolen factory refuse, gas liquors, chemical works, etc., it is apparent that if it hoped to have natural processes of organic decomposition carried on, and where it is found that certain wastes contain germicidal chemicals, it is apparent that such must either not be allowed entrance into the general sewerage system, or that they must be neutralized (as acids, for instance) before being allowed to be carried therein.

We therefore see that no rule of thumb method will suffice, if efficient sewage filtration is to be carried on, and hence the town or city engineer has need of a very notable range of scientific knowledge if he is going to do definitely good work.

With these preliminary remarks, we may now refer to some of the working details. In every case it is desirable by strainers to remove as much suspended matter as possible from the sewage, especially if sewage receives any organic or mineral matters. It is sometimes found quite practical, as in the sewage from private houses, institutions, or small towns, with the separate system, to allow paper or other suspended matters to pass directly on the receiving tank, or even the filters. As, however, a receiving tank of considerable capacity allows of a very notable sedimentation, and since it is always very easily ventilated, it is a notable economy to have it in any system arranged, if possible, at the end of the main sewer, thereby preventing the filter beds from being clogged by solid matters.

A method which has merit is, that where the sewage is turned on to beds of graded quicksand, coke, polarite, or

* Abstract of a paper read before the Engineering Society of the School of Practical Science, Toronto. granular hemætite, as carbonate of iron, or of burnt clay, such as ied brick dust (coarse). Some of the results of such beds as affording a rapid means of nitrification of organic matter are now well known.

In the last number of the Journal of the Sanitary Institute, England, a description is given of the method whereby 54,000 gallons of sewage is daily disposed of. The quantity dealt with was 371 tumes the contents of the tank; without removal the amount of sewage solids left on the beds was only $66\frac{1}{2}$ cubic yards, of which but four per cent. was organic matter. Had this been dealt with as sewage before nitrification, there would have been 556 cubic yards to dispose of. In this case the filters were formed of cinders and coke breeze, of size which would pass through a half-inch mesh of the steve.

Again, at the Lawrence Experimental Station, Massachusetts, a filter of twentysix feet of sand was laid over ground with the usual under drains, and treated with tannery sewage 120,000 gallons per acre daily. This became soon clogged, owing to the amount of sludge accumulated on the filter. The matter was gelatinous and wet, but cracked when dry; when, however, the same sewage was treated on a coke filter two feet in depth, with 100,000 gallons daily, and flooded for two hours daily, much of the organic matter was removed, together with all the arsenic of the chemicals used, which had proved poisonous to the micro-organisms in the sand filter. This then was allowed to flow into the sand filter, and gave continuously a satisfactory effluent.

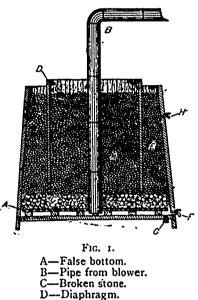
With the sewage from the pulp mills, it was similarly found that the chemicals prevented the nitrification organisms from breaking up the sewage. With, however, the use of the coke strainer, it was found that 100,000 gallons per acre daily could be filtered satisfactorily. Three hours in the sedimentary table before application to the filter was further found to remove 30 per cent. with the addition of alum.

To account for the action of filters with different kinds of sewage, it must be remembered that the microbic life present in water, soil and air consists of a number of different micro-organisms. Thus as many as 35 different organisms were obtained from manufacturing sewages, while those mingled with city sewage had even more than others.

From what has been said in illustrating the methods of sewage filtration, it is apparent that while the methods must be varied to suit circumstances, yet the principles underlying efficient filtration, viz., that of the aeration of the materials of the filter, to the end of promoting nitrification, is the same in all cases. Taking advantage of this fact, the principle has been still further applied to sand or coke filtration, in which the natural provisions are supplemented by forced aeration. The following particulars are given from a pamphlet published by Col. George E. Waring, C.E., on "The Purification of Sewage by Forced Aeration." Described briefly, the mode of operations is as follows:

r. The sewage, after passing through suitable screens, which withhold large solids, as rags, paper, etc., flows slowly, horizontally, over a shallow bed (say six inches deep) of coarse broken stone, which serves to catch and retain the coarse floating particles. Three sets of such stones should be supplied, each with a capacity to receive the flow of a certain period, thereby allowing twice the time for recuperation that they are in use. When not in use, these filters drained expose the filter to oxidation, which speedily results in decomposition and cleansing of the filter.

2. The sewage leaving these stones, freed from coarser matters, passes to a straining tank filled with pure broken stone, coarse gravel, cinders or coke.



E—Coarse gravel.

This tank (Fig. 1) has two compartments, divided by a diaphragm extending.[nearly to the bottom. The sewage passes down one and up through the other, overflowing at its top. The rate of flow must be slow enough for the sediment to deposit on the surface of the filter. From this tank, properly managed, the sewage goes as a clear opalescent fluid with a perceptible odor.

3. When such tank has been operated for a considerable time, its pores tend to become clogged at the surface especially, and filtration is slower. Then the sewage is turned to another tank similar; the emptied tank now is treated by air driven into the false bottom of the tank by a blower. Under these conditions bacterial oxidation is rapidly set up and the filter becomes clean. It is best to provide four of these tanks, each resting three times as long as in use. At Newport such filters run five months without renewal of materials, and were practically as clean and effective as at first.

(To be Continued)



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Acht Free tone Unarries m per cu. ft., f.o.b Quebec and Vermoat roug building purposes, per cf for ornamental work, cu. ft Granite paving blocks, 8 in x4/4 in. per M. Granite curbing stone, 6 in lineal foot BLA Rocfing (V square). " red " red Orramental Black Slate Root PAINTS. Wh'te lead, Can., per solba. " zinc, Can., er solba. " vermillion " holtan, Eng Yellow chrome Green, chrome " Paris Black lamp Black lamp Coll, linseed, refined, Virnés, Sicnas, barnt Umber, " CoEMENT, i Portland Cements German. per 1bl.	$\begin{array}{c} \begin{array}{c} 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$
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Acht Free tone Unarries m per cu. ft., f.o.b Quebec and Vermoat roug building purposes, per c.f. For ornamental work, cu. ft. Granite paving blocks, 8 in x4/4 in. per M. Granite curbing stone, 6 in lineal foot BLA Roofing (V square). " red " purple " unlading gree block Terna Cotta Tile, per sq Orramental Black Slate Roo PAINTS. White lead, Can., per soolbs " vartian, per soolbs " vermillion Hellow Schre Yellow chrome Black lamp Black lamp Black lamp Black lamp Black Jamp Coll, linseed, rafned, Wimp.g. (Less than bbl., sc. Putty Stenna, bernt Umber, " Tarpentine Portland Cements - Germag, per tbl Condon " Newcastle " " Londom " Londom	anctoa, N.B., 100 $anctoa, N.B.,$ 100 $breestone, pr 95 breestone, pr 95 breestone, pr 95 breestone, pr 95 breestone, re 95 bre 10 12 $
Acht Free tone Unarries m per cu. ft., f.o.b Queboc and Vermoat roug building purposes, per c.f. For ornamental work, cu. ft. Granite paving blocks, 8in. Market and the paving blocks, 8in. Cranite curbing stone, 6 in lineal foot BLA Roofing (V iquare). " red " purple BLA Roofing (V iquare). " red	$\begin{array}{c} \begin{array}{c} 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$
Acht Free tone Unarries m per cu. ft., f.o.b Quebec and Vermoat roug building purposes, per cf for ornamental work, cu. ft Granite paving blocks, 8 in x4/4 in. per M. Granite curbing stone, 6 in lineal foot BLA Rocfing (V square). " red " red White lead, Can., per sol. " zinc, Can., er sol " zinc, Can., er sol " zinc, Can., per solbs " vermillion Red lead, Eng Vellow chrome Green, chrome " Paris Black lamp Black lamp Black lamp Coll, linseed, refined, Vineba, Sicnas, bernt OREMENT, i Scients, bernt Paris white, Eng., dry Liharge, Eng Portland Cements Germac, per th Under Portland Cements Germac, per th London e " Joard Portlan North's "Condor" London e the solution of the	$\begin{array}{c} \begin{array}{c} 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$
Acht Free tone Unarries m per cu. ft., f.o.b Queboc and Vermoat roug building purposes, per c.f. For ornamental work, cu. ft. Granite paving blocks, 8in. Market and the paving blocks, 8in. Cranite curbing stone, 6 in lineal foot BLA Roofing (V iquare). " red " purple BLA Roofing (V iquare). " red	$\begin{array}{c} \begin{array}{c} 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$

CORRECTED UP TO JUNE 21ST.

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575 825 575

ohlteot and Builde	r.''
Interior Decoration	Ruofers
Elliott, W. H viii	Campbell & Gilday zv
Lime.	Douglas Bros
Currie & Co, W& FP xvi	Douglas Bros
Ontario Lime Associa-	Forbes, D
tionIII	Forbes, D
Legal.	Rennie & Son, Robt
Denton & Dods III Quinn & Morrison III	Reggin, John
Inafer Priems.	Reggin, John
Luxfer Prism Coxvi	winiams & Co., H
Machinory Jenckes Machine Co., II	Reversible Window
_	Duval & Co, E xi
Mantles, Grates, and Tiles.	Sanitary Appli- anocs
Holbrook& Mollington i	Garth & Co
Mosaic Marble & Enamel Co	Toronto Steel Clad Bath
Enamel Co il Rice Lewis & Son IV	& Metal Co r The James Robertson
Mail Chutes.	
The Cutler Mfg. Co i	The James Morrison
	Brass Mfg. Co xri
Mortar Colors and Shingle Stains.	Stained and Decors
Cabot, Samuel IV	tive Glass
Muirhead, Andrew I	Horwood & Sons, H. Hobbs Glass Works.
Ornamental Iron	Hobbs Glass Works
Work.	Lyon, N. T. Leonard, B. Mackey Stained Glass
DennisWire & Iron Co viii	Mackey Stained Glass
Malleable Iron Co x	Co
Toronto Fence & Orna- mestal Iron Works, viil	McKenzie's Stained
Painters.	Co
Montreal Directory xv	Jand Stained Glass
Toronto Directory xv	Co
Plastenars	Co
Hynes, W. J xv	Shingles and Siding
Paints & Varnishes	Metallic Roofing Co Ir
Muirhead, Andrew i	Metal Shingle & Sid-
Parquetry Floors	Metal Shingle & Sid- ing Co vill
Elliott, W H viij	Ormsby & Co., A B I
Plate Glass	Soll, Pipe.
Hobbs Glass Works., ii	Toronto Foundry Co 1
Lyon, N. T i The Consolidated Plate	Storm Doors.
Glass Co ii	Hillock & Co., John. H
Plumbers	Typewriters, Etc.
Montreal Directoryxv	Williams Mfg. Co I
Toronto Directory x v	Ventilators
Reflectors	Boston Blower Comer rl
Frink, I. P xii	Wallberg, E. A iii
Roofing Materials	Wall Plaster
Ormsby & Co., A B., /	Albert Mfg. Co xy Alabastine Coxiy
Metallic Roofing Co i	Alabastine Co

Toronto, Montreal

	TOLOTOTICO.	MODUCUL,
Hydraulic Cements		
Thorold, per bbl	. 150	1 25 1 54
Queenston, #		1 50 1 60
Napanee, n		1 50 1 00 1 59
	. 110	
Ontario.	. 110	I 50
Ontario, " Keene's Coarse "Whites"		
Fire Bricke Namast	. 550 600	500 5 54
Fire Bricks, Newcastle, per M "Scotch " Lime Per Berral Gray		-5 00 21 00
Lime, Per Revel Corre	a, w 35 00	19 00 21 00
II II White	40	
Plaster Calainad M. D	. 50	80
rinster, Guicinea, N. L	. 200	
Hair, Plasterers', per bag	2 00	
		1 00
HABDY	FARE.	
The following are the quot	ations to hull	ders for nelle
at Toronto and Montreal:		
Cut nails, sod & 6od, per keg		
Steel 11 11 11 11 11		I 85 (
Steel II II II II	2 35	1 95
CUT NAILS, FENCE	AND CUT SPIK	(BS
400, hot cut, per 100 lbs	2 30	1 QU 1
10 to 16d, ho: cut	2 35	1.95 ·
8d, 9d, 11 11	240	2 00
6d, 7d, " "	2 45	2 05
40 to 50,		2 30
3ª, ""		
2d. " "	7 25	
Cut spikes, 10 cents per ke	g advance	
Steel Nails, 100 cents per keg e	xtra.	
Iron 1	spo:	
1ron pipe, 36 inch, per foot	- 6c	⊷ 6ċ.″
Iron pipe, 3/ inch, per foot	7	7
- H H 34 H	<u> 8</u> 4	£ 8% ·
	13	12
	17	13. 1
	24	24 .
	30	
	43	43
Toronto, 70 per cent. disco	Munt.	-
Montreal, 70 per cent. du	scount.	
Load i		
	-	1
Lead pipe, per lb	70.	} 27% per
Waste pipe, per lb	75	J cent. dis-
Galvanise	d Iron:	
Adam's-Mar's Best and Qu		
16 to 24 guage, per lb	4340 11	c. 4¥
26 guage.		18
an Entrol		4姓
20	5 5%	4発
Gordon Crown-		- • ·
16 to 24 guage, per lb	4X 4X	43
20 guage. "	424 444	4%
28 If NoteChesper grades about	. 474 5	, A¥
Note Chesper grades about	u 🖌 c. per Ib.	less.
Structure		
Staal Beams non roo lbs		
Steel Beams, per zoo lbs		≣ , ₹
channels.	285	8,39
	2 50	2.85
··· tees, ··· ···	280	2 50
" plates, " Sheared steel bridge plate	2 55	455
Sneared steel bridge plate		839-
* -		
T.		1

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