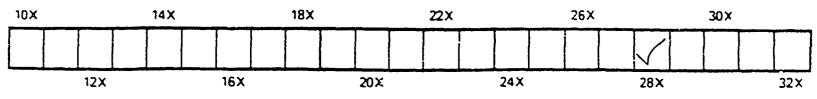
The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below. L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.

Coloured covers/	Coloured pages/
Couverture de couleur	Pages de couleur
Covers damaged/	Pages damaged/
Couverture endommagée	Pages endommagées
Covers restored and/or laminated/	Pages restored and/or laminated/
Couverture restaurée et/ou pelliculée	Pages restaurées et/ou pelliculées
Cover title missing/	Pages discoloured, stained or foxed/
Le titre de couverture manque	Pages décolorées, tachetées ou piquées
Coloured maps/	Pages detached/
Cartes géographiques en couleur	Pages détachées
Coloured ink (i.e. other than blue or black)/	Showthrough/
Encre de couleur (i.e. autre que bleue ou noire)	Transparence
Coloured plates and/or illustrations/	Quality of print varies/
Planches et/ou illustrations en couleur	Qualité inégale de l'impression
Bound with other material/	Continuous pagination/
Relié avec d'autres documents	Pagination continue
Tight binding may cause shadows or distortion along interior margin/	Includes index(es)/ Comprend un (des) index
La reliure serrée peut causer de l'ombre ou de la	Title on header taken from:/
distorsion le long de la marge intérieure	Le titre de l'en-tête provient:
Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/	Title page of issue/ Page de titre de la livraison
Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.	Caption of issue/ Titre de départ de la livraison
	Masthead/ Générique (périodiques) de la livraison
Additional comments:/ Commentaires supplémentaires:	

This item is filmed at the reduction ratio checked below/ Ce document est filmé au taux de réduction indiqué ci-dessous.





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 S.

JUNE 10, 1897

No. 19.

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.

C. H. MORTIMER, Publisher,

CONFEDERATION LIFE BUILDING, TORONTO. Telephone 2362.

New York Life Insurance Building, Montreal. Bell Telephone 2299.

FOR SALE

Village hand fire engine-standard size-double brass pumps; guaranteed in good order; black walnut box, double brakes; accommodates 15 to zo men, throws two streams. Also second hand rebuilt standard steamer, good as new. All thoroughly guaranteed-extra cheap. JNO. D. RONALD, Fire Engine Works, Brussels.

TENDERS

Tenders will be received up to 5 p.m., THURSDAY, THE 17711 INST., for the whole of the several trades required in the erection of a

Stone and Brick Detached Residence

on the est side of Walmer Road. The lowest or any tender will not necessarily be accepted. Plans and specifications may be seen and all information obtained at the office of the undersigned.

F. H. HERBERT, Architect, York Chambers, 9 Toronto St., Toronto.

Tenders Wanted

Sealed Tenders, addressed to the undersigned and marked "Tenders for Debenures," will be received up to the 23RD DAY OF JUNE INST., at six o'clock p.m., for the purchase of \$40 000.00 Town/of Parrsboro Water Debentures, bearing interest at four per cent., payable half-yearly. Debenures for \$1,000.00 each and payable in thirty years. Lowest or any tender not necessarily accepted. Debentures issued under author-ity of an Act passed 1897. Office of the Town Clerk and Treasurer, Partsboro, N.S., June 3th, 1897. N. H. UPHAM, Town Clerk.

BRICK SEWERS

Tenders will be received at this office (where plans and specifications may be seen) up to 5 o'clock on THURSDAY, 24711 JUNE, for

2,400 FEBT OF BRICK SEWER. Lowest or any tender not necessarily accepted. A. ORMSBY GRAYDON, City Engineer, London.

WILLIS CHIPMAN, C.E., Consulting Engineer.

Tenders for Bridge

TO BRIDGE CONTRACTORS

Tenders for a Steel Bridge on behalf of the County of Perth and County of Oxford, to be erected on the boundary of West Zorra and Gore of Downie, near Fairriew, being 45 feet in clear (48 feet over all) and 14 foot roadway. Floor to be covered with pine joist tamrack floor, oall white cak Tenders to be in by 72 O'CLOCK, NOON, TUES. DAY, JUNE 29711, 1897, addressed to the under-stance.

signu Lov vest or any tender not necessarily accepted.

JOHN CORRIE, Inspector.

Stratford, June 8th, 1897.

Ŷ

CONTRACTS OPEN.

DESERONTO, ONT .- W. P. Miles is building a new residence.

CHALK RIVER, ONT.-A site has been granted for a Presbyterian church.

MOOSOMIN, N. W. T.—The town is talking of erecting a \$5,000 hospital.

COLDWATER, ONT .- The town will

borrow \$3,000 for improving the roads.

MALLORYTOWN, ONT .- It is stated that a new custom house will be erected here.

TWEED, ONT .-- The erection of a new school building will be proceeded with at once.

ESSEX, ONT .- A loan of \$5,000 will be made for improvements to the waterworks plant.

AMHERSTBURG, ONT.- Matthew Orr purposes erecting a residence on Church street.

EMBRO, ONT.-Miss Ross, of Wood-stock, will build a large residence on Commissioner street.

SHERBROOKE, QUE .- An opera house will probably be erected here. C. H. Nutter is interested.

WINDHAM CENTRE, ONT .-- Tenders are asked by George Hendry for the erection of a Présbyterian church.

CARMAN, MAN.—It is expected that an electric light plant will be placed in the new grist mill about to be erected.

PORTAGE LA PRAIRIE, MAN. -T. G. Silverthorne, architect, has prepared plans for a \$2,000 residence for V. G. O'Brien.

SAULT STE. MARIE, ONT.-An agita-tion is on foot for the construction of a sewerage system ; estimated cost \$40,000.

BROCKVILLE, ONT.- The Brockville Light & Power Company will install additional machinery for the supply of power.

OSPRINGE, ONT .- Wm. McPhail will receive tenders until June 15th for flooring and desks for school-house in section No. 13, Erin.

TRURO, N. S .- Tenders are asked up to 16th inst. for purchase of \$7,500 of de-bentures. Address, W. D. McCallum, town clerk.

ST. JOHN, N. B.-Mr. Murdoch, C. E., has recommended the installation of an additional high level pumping plant at Silver Falls.

WATERFORD, ONT.—The Agricultural Society propose erecting a new Agricul-tural Exhibition building, 36×80 ft.; Mr Renwood, secretary.

ST. STEPHEN, N. B .- The town engineer has been authorized to invite tenders for sewers, for which the sum of \$3,000 has been appropriated.

COBOURG, ONT.—The county council will shorily let the contract for the erec-tion of two bridges, one at Pidgeon river and the other at Campbellford.

DRUMMONDVILLE, QUE.-The Montmorency Cotton Company is preparing to

erect a large cotton mill here, and to utilize the water power of the river St. Francis.

ROSSLAND, B. C.-Willis Chipman, C. E., of Toronto, and Col. T. H. Tracey, C. E., of Vancouver, have been asked to submit estimates of a sewerage system for this town.

LINUSAY, ONT. A proposal to erect a hospital in this town was discussed at a recent meeting, and a committee was appointed to make the necessary arrangements.

HULLETT, ONT.—The town will shortly invite tenders, to be received before June 19th, for the construction of a wood and iron bridge on side-roads 30 and 31, concession 7.

BERLIN, ONT.-The G. T. R. authorities are said to have made a proposition to the town to erect a new depot, provided the waterworks and sewerage systems are extended.

NEEPAWA, MAN. - Rev. C H Houghton invites tenders this week for erecting an Anglican church here, the plans for which were prepared by S. Frank Peters, architect, Winnipeg.

LISTOWEL, ONT. - On July 27 the rate-payers will vote on two by-laws, one to borrow \$15,000 to construct a waterworks system, and the other to raise \$5,000 for an electric light plant.

CHARLOTTETOWN, P. E. I.- Among the new buildings to be erected this season are the new cathedral, to cost \$50,000 Prince of Wales college, cost \$20,000, and a new wing to the provincial asylum.

BARRIE, ONT .- It is reported that the board of management of the Barrie hos-pital have purchased Mr. R. E. Fletcher's residence on High street, with the intention of converting it into a hospital.

RENFREW, ONT.-By-laws to provide \$53,000 for water works and \$19,000 for sewerage extensions have been carried by the ratepayers .- Tenders are asked up to the 11th inst. for erecting a brick school. Address, W. M. Dickson.

GRAND FALLS, N. B. — The Grand Falls Water Power & Boom Company propose to develop the power of the Grand Falls and erect a large pulp mill. James Nanchester, of St. John, is a member of the company a member of the company.

QUEBEC, QUE.—The Anglican congre-gation have decided to build an Episcopal residence, at a cost of \$6,000.—Tenders for the supply of 1,000 feet of cotton hose are invited until the 15th inst. by A. Maloum, secretary Fire Committee.

PARRY SOUND, ONT. - McMurrich township council has passed a by-law to raise funds for building a school house in S. S. No. 1.—The town has decided to purchase a road roller – A new mill will be built here for Keighley & Marcon, to be 50 x 100 feet, with boiler house 32 feet square.

HALIFAX, N. S.—Tenders are asked this week by John E. Wood for the con-struction of several exhibition buildings,

from plans on view at the city engineer's office.—An English syndicate will, it is said, erect a factory here for the manufacture of terra cotta.

2

WETASKIWIN, N.W.T.—The Brackman & Ker Milling Co., of Victoria, B.C., have decided to build a \$50,000 elevator here.

PRINCE ALBERT, N. W. T.—Tenders are asked by E. F. E. Roy, Depariment of Public Works, Ottawa, for the construction of a hot water heating appratus at the court house and jail in this town. Plans may be seen at the Dominion Public Works office, Winnipeg.

CHATHAM, ONT.—The architect has been instructed to invite tenders for the erection of an isolated hospital building. —The school board will shortly ask tenders for seats and blackboards for the new central school.—Steps have been taken by the town and county councils looking to the erection of a House of Refuge.—Some ratepayers advocate the appointment of a city engincer.

WINNIPEG, MAN.-J. H. G. Russell, architect, has in hand alterations and additions to Nos. 696 and 700 Main street. -It is said that a prominent citizen of Winnipeg has decided to erect an opera house in Fort William, at a cost of \$24,-000.-The city has made a grant of \$10,-000 towards the erection of a wing to the general hospital.

FREDERICTON, N.B.—The superintendent of waterworks has been instructed to purchase the season's supply of water pipe.—Geo. W. Upham, ot Woodstock, will erect a saw mill here, with iotary, lath and other machines.—The corporation will shortly invite tenders for a fire alarm system and for improvements to the city hall building.

ST. CATHARINES, ONT.—The R. H. Smith Company are erecting an addition to their saw works.— J. Rollinson, city clerk, invites offers up to noon of the 11th inst., for the construction of concrete and plank sidewalks.— The County Commissioners will ask the Dominion government to construct a bridge over the hydraulic raceway near the Lincoln paper mills.

KINGSTON, ONT.—Tenders for the construction of a hot water heating apparatus at the custom house in this city will be received until to-morrow (Thursday), by E. F. E Roy, Ottawa. Plans at the office of Arthur Ellis, architect.—The new residence to be erected in connection with the Hotel Dieu will be of stone, four storeys, and will cost 325,000.—The city engineer has been instructed to invite tenders for construction of granolithic sidewalks.

HAMILTON, ONT. The county council is considering the advisability of erecting a poor house. – Mr Barrow, city engineer, has reported against the plans suggested by Mr. G. H. Meakins for increasing the water pressure, and recommends that the standpipe be rused. – The following building permits have been granted : Thomas Allan, two-storey brick dwelling, Ray street north, cost \$1,400; George Mills, two-storey brick dwelling, Herkimer street, cost \$1,800. – Tenders will shortly be called for sewer pipe and other supplies.

RICHMOND, QUE. – The town recently invited tenders for electric lighting, specifying no conditions except that the tenders were to be received before March 15th. The local company tendered for a five years' contract at a figure which was approved of by the council, but the latter asked that the electric light company sign a contract for one year at the same price, which they refused to do. Consequently the lights have been turned out, and it is probable that new tenders for a term of years will be asked for.

OTTAWA, UNI. - It is runnored that the C. P. R. intend building a central station in this city. E. F. E. Roy, secretary Department of Public Works, invites tenders for hot water heating apparatus at Prince Albert, N. W. T., and at Kingston, Ont. —The owners of the Russell House have decided on extensive improvements. The reading room will be extended to Canal street and increased in height by two stories. The rotunda is to be relaid in tile or mosaic, and improved plumbing put in.—The board of directors of St. Luke's hospital have purchased property on Ann street for a new building.—The E. B. Eddy Co. will put in a separate system of waterworks, having 40 hydrants, with a pumping force of 5,000 gallons per minute.

MONTREAL, QUE.-The finance com-mittee of the city council has made the following appropriations : Repairs to and lighting of market buildings, \$2,000; construction of sewers, \$19,000; new fire en-gines, \$8,000.-P. W. St. George, city surveyor, is receiving tenders this week for the supply of scoria blocks, paving bricks, etc., and for the construction of asphalt and brick pavements on Notre Dame street and Chaboillez square west.—The plans prepared by Messrs. J. W. Mc-Gregor and J. G. Papineau, architects, for the proposed civic building show a structure of Renaissance style, to contain recorder's court and offices, central police station, morgue, etc.-G. A. Monette, architect, is preparing plans for two houses to be built on St. James street for B. Ethier.-Gamelin & Huot, architects, are preparing plans for two houses to be erected on St. Denis street for Mde. A. Duperrault.-L. R. Montbriand, architect, is preparing plans for three cottages to be erected at Pointe aux Trembles for O. M. Tenders will be called shortly for Ange. the above works.

TORONTO, ONT.-The city commissioner has been authorized to make repairs to St. Lawrance market .- The city engineer, in his fortnightly report presented to the Board of Works on Monday last, recommended the construction of the following pavements and sidewalks :- College street, from Spadina avenue to Yonge street, asphalt; Church street, from Queen to Well-ington, asphalt; Charles street, from Church to Jarvis, cedar block; Wellesley street, from Parliament to Sumach, cedar block: Gwynne avenue, from Queen to King, gravel; Close avenue from King to Springhurst, gravel; Cowan avenue, from King to Queen, gravel. Brick sidewalks: -Queen west, north side, opposite No. 1190 and 1192; Parliament street, east side, from Carlton to Winchester street ; Oxford street, south side, from Augusta to Bellevue avenues ; Yonge street, from Bloor to Davenport road .- The engineer also recommends the construction of a sewer from the corner of Gladstone avenue and Peel street southerly to the Noble street sewer, at a cost of \$750.—The Board of Control have finally passed the estimates for the year. The following are some of for the year. the principal items of construction - Macadam road repairs, \$12,000; cedar block repairs, \$4,000; general repairs to unim-proved roadways, \$3,000; asphalt pavement repairs, \$3,000; stone and wooden crossing repairs, \$2,000; stone and wooden kerb-ing repairs, \$2,000. Exhibition grounds ing repairs, 52,000. Exhibition ground in repairs to buildings, sidewalks, etc., \$1,-000; painting buildings, \$1,000; new pig pens, \$2,500; new ring for harness horses, \$1,000; new stables, \$1,000. J. N. Lake, \$1,000. of Hamilton, will superintend the alterations to be made in the U. E. buildings, King street west, this city, for the North American Life Assurance Company. The in:provements will cost about \$15,00.-Petnions have been received by the city clerk against the construction of a gravel pavement on Landsdowne avenue, brick sidewalks on south side of Wellington street, between Bay and York streets; north side of Queen street, between Ter aulay and Chestnut streets, and west side of Brunswick avenue, between College and Ulster streets. - The Commissioners of County Property have reported to the

County Council recommending that a bridge be constructed over Mimico creek, at the town line between Peel and York. The Board of Control will advertise for tenders for the alterations to Exhibition Machinery hall, new pig pens, and two new horse stables.— The City Engineer has recommended that the street railway tracks be extended on Gerrard street from Pape ave. to Leslie street, and that the track allowance be paved with brick on concrete foundation, also that a brick walk be constructed on the west side of West Market street, from Front street to King street, and a cement granolithic walk on Queen street, opposite Osgoode Hall.

FIRES.

Stewart's planing and saw mill at Lucknow, Ont., was destroyed by fire last week, at a loss of \$12,000; no insurance.—The furniture establishment of Renaud, King & Patterson, Craig street, Montreal, was recently damaged by fire. The building is owned by the Tiffin estate.—S. Siggins bicycle rim factory at Woodstock, Ont., has been damaged by fire to the extent of \$6,000; partially covered by insurance.— The Salvation Army barracks at Comber, Ont., has been burned.—The immigration building at Port Arthur, Ont., was burned on the 5th inst.—Henry Serles' store, H. Teeter's hotel and Wm. Perkins' shop, at Waterford, Ont., were burned on Monday last. Loss, \$20,000.

CONTRACTS AWARDED.

LEAMINGTON, ONT.-E. M. Roach has secured the contract for building a residence for William Smith.

CHATHAM, ONT.—The contract for Stevens & Campbell's cooper shop has been let to Jas Oldershaw.

STPATHROY, ONT.—James Elliott has purchased a stone crusher from the F. C. Austin Company, of Chicago.

2

· . ·

- Q

۰. ب

BERLIN, ONT.—The Ingersoll Artificial Stone Company have secured the contract for laying walks, at 11½ cts. per foot.

MITCHELL, ONT.—Hanson Bros., of Montreal, have purchased from the town \$15,000 of 20 year 4 per cent. debentures.

PORT HOPE, ONT.—The contract for rebuilding the Traders' Bank block in this town has been given to Thomas Rutherford, of Peterboro,

ST. MARYS, ONT. – The contract for the stone abutments of a bridge across the Sydenham river has been let to John Elliott, at \$7.75 per cubic yard.

PETERBORO', ONT.—The George street Methodist church trustees have awarded the contract for the new parsonage to H. C. Stabler, at the price of \$3,250.

GRANBY, QUE.—Neil & Kemp are the successful contractors for the Victoria Memorial Hall, the plans for which were prepared by Cox & Amos, architects, Montreal.

WALKERTON, ONT. – The contract for the town hall has been let to H. Clark, of this town, at \$9,650, W. J. Whillock securing the plumbing and heating. The plans were prepared by A. R. Denison, architect, Toronto.

HAMILTON, ONT.—Contracts for sewers have been let as follows Lock street, William Spence, 37 cents a foot; Hannah street, William Spence, 44 cents; Murray street, William spence, 37 cents; Bay street, J. J. Amstrong, 44 cents. KINGSTON, ONT. –W. Newlands, archi-

KINGSTON, ONT. -W. Newlands, architect, has let contracts as below for a threestory brick building opposite St. Andrews church. Masonry, G. Newlands, carpenter work, A. Will.amson; tinsmithing and gas fixtures, McKelvey & Birch; painting and glazing, Robinson Bros.

COLLINGWOOD, ONT.—The contract for cement walks has been let to H. G. Wynes, at 11¼ cents per square foot.—Boone & Armstrong, to whom was given the contract for deepening Collingwood harbor, will commence work about the middle of this month. A powerful dredge has been purchased for the work.

LONDON, ONT. The Sewers Committee received the following tenders for the steel bridge at the foot of King street: Hamilton Bridge Company, 5,050; Central Bridge & Engineering Company, Peterboro', one plan, 56,020; another, somewhat similar, 55,627, and a truss bridge, 52,400 for the 163 feet span only; King Bridge Company, Toledo, 58,500, or 58,200. The tender of the Central Bridge & Engineering Co. has been accepted. The tenders for pipe were: Gartshore & Co., cast iron, 53,000 per foot; Hamilton Bridge Company, steel pipe, 53,08; E. Leonard & Sons, 53.200; Geo. White & Sons, 54.200. That of E. Leonard & Sons has been accepted. The tenders for section "J" of the sewerage system were: Wm. F. Grant & Co., of Toronto, 519,335; Burnett & Son, London, 521,7500; Geo D. Cameron, London, 520,6200. The tender of W. F. Grant will probably be accepted.—The tenders for section "K" of the sewerage system have been found to be too high, and new tenders will be invited.

UTTAWA, ONT. — Tenders were received by the city for fire engines as follows · Waterous Engine Company, Brantford, two engines for \$6,950, taking also the Old Conqueror engine, with a second size engine from the same firm for \$4,650 e.ach, or both engines for \$8,600; E. H. Thomas, of Brussels, one standard engine, \$\$4,000,a second style for \$4,200, allowing \$600 for the Conqueror; the American Fire Engine Company, Seneca Falls, the Clapp and Jones engine for \$5,150 each; the "La France" engine, by Aheatn & Soper, Ottawa, \$6,500 each; Walter Wonham & Son, Montreal, the triple cylinder Merryweather, \$6,800 each; John D Ronald, two engines he had on hand, \$4,500 and \$3,300; Thomas B. Brown, Windsor, Ont., one engine for \$5,170 or two engines for \$10,340. It was decided to purchase a second-hand Merryweather from Newfoundland, and one of the Ronald engines.

MONTREAL, QUE - The Dominion Bridge Company, of this city, have a con-tract to furnish 50 spans of bridge work for the Newfoundland railway, now being built by R. G. Reid .- Building permits have been granted as follows : One house on St. Christopher street, St. James ward, brick and stone front, for Mde. R. Prefontaine-architect, Georges Janin; masonry, P. Picotte. Three houses, rock and cut stone front, on Notre Dame street east, for Messrs. Naud & Brosseau-masonry, M. Gilbault. One building, stone and brick front, on McGill College avenue, St. Antoine ward, for William Jacobs -- architect, Walter Livermore; masonry, Heggie & Stewart; bricklaying, A. E. Wand.-Contracts have been awarded as follows : Robert Findlay, architect, residence at Westmount mountain top, for Arthur Hodgson-all trades to D. M. Long. Two rougson-all trades to D. M. Long. Two residences on Cote St. Antoine road, for Mrs. Geo. Waits-masonry, Heggie & Stewart; bricklaying, Wm. McCarthy & Son; carpenter and joner's work, J. A. Lambert; roofing, W. G. Graham; plumb-ing, E. C. Mount. Additions to Sun Life Insurance building-all trades to W. Swan, Cliff & Pone architectic batal co Swan. Clift & Pope, architects, hotel on Victoria street, for E. H. Dohan-all trades to Simpson & Pcel. Jos. Sawyer, architect, one house, stone front, on Park avenue, for D. Gagne - carpentry, D. Robert Falbord, architect, resi-Gagne. dence at Cote des Neiges, 3 stories, for Chas. Legare-bricklaying and masonry, F. Dufresne, jr., of St. Laurent, carpenter and joiner's work, Isaie Lalonde, of St. Henri; roofing, heating and plumbing, Blouin, Desforges & Latourelle; painting and glazing, Eug. Berthelette. One resi-dence at Valleyfield for R. S. Joron-all trades to Damase Joron, One villa at

Cartierville, two stories, for R. O. Pelletier -all trades to Emanuel Lecavaher. Four houses on Victoria street, Westmount, three stories, for Chs. Depocasmasonry, Jos. Laponte; carpenter and joiner's work, Isaie Lalonde. M. C. St. Jean, architect, interior of St. Therese church, for the Rev. M. Pilon – plastering, Jos. Fabien; estimated cost, \$5,300.

OBLIGATIONS OF CONTRACTORS.

The term "entire contract" which is often used with reference to building contracts, has two distinct meanings: (1) In its ordinary meaning it is a contract to do the whole of a piece of building work as opposed to contract to do one or more of the component parts of the work. It is a common thing to undertake an entire contract in this sense and to apportion it out among sub-contractors, who are responsible to the contractor and not to the building owner, and for whose ac's and defaults the building owner is, as a general rule, not liable. (2) In its legal meaning it is an indivisible contract, one where the entire fulfilment of the promise by either party is a condition precedent to the right to call for the fulfilment of any part of the promise by the other. In this sense it is opposed to divisible, severable, or apportionable contracts.

In the first sense the contractor is responsible for the performance by the subcontractors of the parts of the work sublet to them, and the building owner has no remedy against them under the principal contract with the contractor. In the second sense it is of great importance to the builder on the question of performance and payment to know how far his right to payment is contingent on complete performance of the whole bargain as to time, workmanship and materials, and whether he can or cannot insist on payment for any portion of the work before the whole is done. And on the other hand, it is of importance to the employer to know whether the builder is bound to finish the whole work.

Entire contracts may be of various kinds. There may be a contract to do the whole work in consideration of payment of a lump sum. Or the contract may be to do the whole work in consideration of payment of different sums for different parts of the work. Or the contract may be to do the whole work followed by part performance, no mention of price being made. Or the contract, again, may be to do all the parts of a whole work, or to do so many entire contracts. Payment on account or by instalments may (depending upon the construction of the contract) merely entitle the builder to payment of instalments as they accrue due, still leaving him ljable for non-performance of the whole; or the entirety of the contract may be destroyed and the payment made apportionable, thus releasing the builder from any other liability than to complete that portion of the contract upon which he has started.

It is a general rule that, while a special contract to erect a house or other building remains open-i.e., unperformed—the builder cannot sue to recover any compensation for work and labour, nor can he maintain an action on the contract for what he has done until the whole is completed. For a builder is not eutitled to

ASBESTIC " 66 The King of Wall Plasters FIREPROOF, being purely Asbestos, which is incombustible. NON-CONDUCTOR OF HEAT - NO CRUMBLING OR CRACKING WEIGHS LESS and is INTRINSICALLY CHEAPER than any other Plaster. A few of the principal Buildings PLASTERED WITH ASBESTIC THE MCDONALD BUILDING, Victoria Square, Montreal. THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION BUILDING, Montreal. THE ROYAL VICTORIA COLLEGE, Montreal. THE PROTESTANT INSANE ASYLUM, Verdun, near Montreal. THE GRAND HOTEL, St. Hyacinthe, Que. THE NEW CUSTOMS-APPRAISERS STORES, NEW YORK, now building, which will onsume 5,000 tons THE PARLIAMENT BUILDINGS, OTTAWA, portion of which was recently destroyed by fire and rebuilt Write for The American Asbestic Go. Pamphlet and full Information. 100 William Street NEW YORK SOLE PROPRIETORS OF "ASBESTIC" for United States and Canada. **MICA BOILER AND** STEAM PIPE COVERINGS The Highest Non-Conductor and the Cheapest Covering c the Market. Full Particulars from The Mica Boiler Covering Co. 9 Jordan St., Toronto MONTREAL WINNIPEG ELBOW

recover the value of the building materials employed by him in building a house for the defendant, under a claim for goods sold and delivered. But where a builder engages to build a house, to be paid for his work and labour and the materials supplied by measure and value, or according to the customary rate of valuation, he is entitled to demand payment from time to time as the work proceeds. by agreement contained in the original contract the right may be given in certain events, or in case of deviations and alterations, to reduce the debt or claim arising under it by set-off; and where subsequently to a building contract the employer agreed to supply part of the materials, it was held that he was entitled to deduct from the contract prices the value of the materials so supplied. So where the employer had done part of the work himself, it was held that the contract prices must be diminished by the value of that portion of the work.

When plans and a specification for the execution of a certain work are prepared for the use of those who are asked to tender for its execution, the person asking for the tenders does not enter into any implied warranty that the work can be successfully executed according to such plans and specification. The contractor for the work cannot therefere sustain an action for damages as upon a warranty should it turn out that he could not execute it according to such plans and specifications. The mere employment of an architect to prepare plans and a specification for a house, and to procure a builder to erect it, does not render the employer responsible for the accuracy of the bill of quantities furnished by such architect to the builder.

Where a person undertakes and is employed to perform a work of skill and labour, and fails therein, so that his employer derives no benefit from the work, the former is not entitled to recover his demand, as the employer buys both his labour and his judgment, and he ought not to undertake the work if he does not know whether he can succeed or not. If a surveyor makes an estimate which turns out to be incorrect to a considerable amount through his omitting to examine the ground for the foundation of the work, he

ESTABLISHED

is not entitled to recover anything for his plans, specifications, or estimates made for that work. In an action on a special contract for work done under the contract and for work, labour, and materials generally, the defendant may give in evidence that the work has been done improperly, and not agreeable to the contract, and the plaintiff in that case will only be entitled to recover the real value of the work done and the materials supplied.

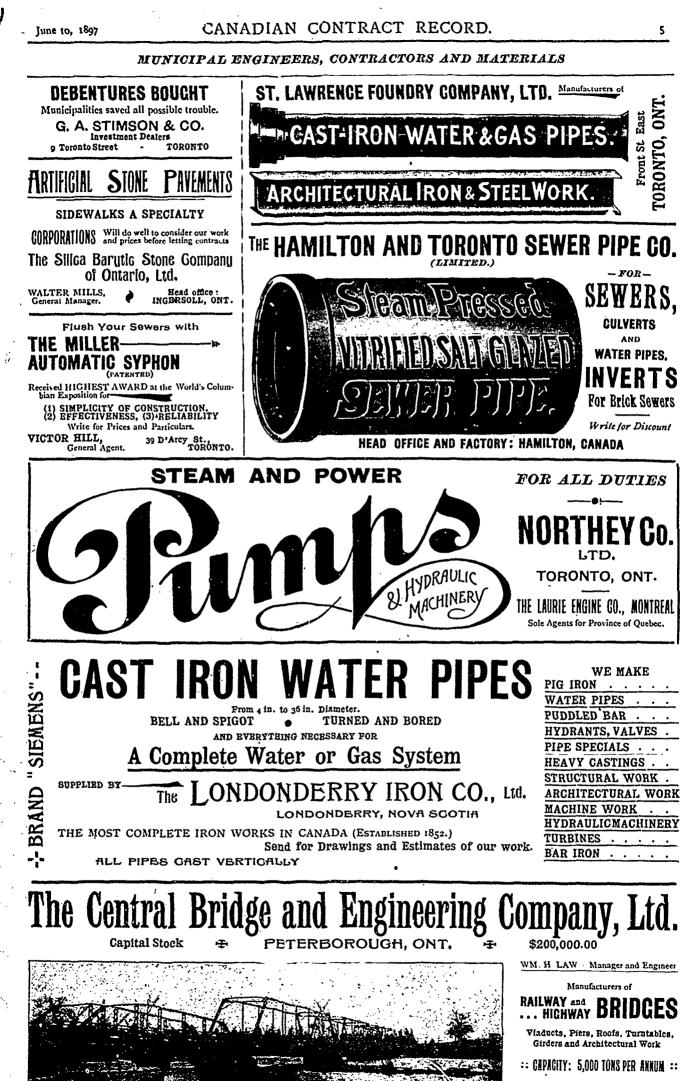
(Concluded in next issue.)

TURKISH ARCHING.-At Basora, where they have no timber but the wood of the date tree, which is like a cabbage stalk, they make arches without any frame. The mason, with a nail and a bit of string, describes a semi-circle on th ground, lays his bricks, fastened together with a gypsum cement on the lines thus traced, and having thus formed his arch except the crown brick it is carefully raised and in two parts placed upon the walls. They proceed thus till the whole is finished. This part is only half a brick thick, but it serves them to turn a stronger arch over it.

EVERY ENGINEER AND GONTRAGTOR

- Should possess a copy of the Second Edition of the Canadian Contractors' Hand-Book, a compendium of useful information for persons engaged on works of construction, containing upwards of 150 pages. Price \$1.50; to subscribers of the CANADIAN ARCHI-TECT AND BUILDER, \$1.00.
- C. H. MORTIMER, Publisher, Confederation Life Building, IURONTO,





"RAMAPO" SAFETY SWITCH STANDS



TO MUNICIPAL OFFICERS.

The CONTRACT RECORD is desirous of publishing, as far as possible, advance Information regarding projected works of construction in all parts of Canada, such as sewerage and waterworks systems, railways, street pavements, public and private buildings, etc. Municipal officers would confer a favor upon the publisher by placing at our disposal particulars of such undertakings which are likely to be carried out in their vicinity, giving the name of the promoter, character of the work, and probable cost. Any information thus furnished will be greatly appreciated.

VALUABLE REPORT ON ROAD-MAKING.

Mr. A. W. Campbell, Provincial Instructor in Road-Making for Ontario, has issued his first annual report, which is a work of much interest and value to municipal officers, councillors, etc., containing as it does suggestions and methods for improving the streets in towns, villages and the country. Any person desiring a copy of the report may obtain the same upon application to the Department of Agriculture, Toronto.

CEMENT-CONCRETE SIDEWALKS.

Under the above heading Mr. Campbell says :

In connection with the improvements streets, there is a widespread . ndency to replace wooden sidewalks with others of more permanent material. In fixing grades it will generally be necessary to undertake the construction of the entire street roadway, sidewalks, boulevards-if the best results are to be attained, and for the purpose of economically and easily handling the excavated earth. Wooden sidewalks are lacking in durability, need constant attention to keep them in a safe condition, are not agreeable to walk on when a little worn, and will, in their ultimate cost, be found more costly than those of cement-concrete.

In constructing this latter class of walk, the space over which it is to be laid should be excavated to a depth of twelve inches below the top of the proposed walk, perishable or objectionable material being removed to a greater depth 'f necessary. The bottom of the excavation is then

compacted by pounding or rolling until as firm as possible.

On the bed so prepared a layer of clean gravel or broken stone is spread to such a depth as will give, on thorough consolidation, a thickness of seven inches. Temporary curbs of pine should be set on each side of the excavation, to be removed after the walk has hardened.

On this foundation, and in the mould formed by the curbs, is placed four inches of concrete, which should be composed of small broken stone, of a size not greater than one and a quarter inches in any direction, and entirely free from dirt or dust; clean screened gravel, sharp sand and Portland cement. This should be thoroughly rammed, and may be of the following proportions :

Cement I part Broken stone...... 5 parts Clean gravel 21/2 parts

Slab or flag divisions are then marked off from 16 to 20 feet in This provides for settlelength. ment, expansion and contraction from frost, and lessens the tendency of the walk to crack irregularly from these causes. The joints should be filled with sand or other approved separating material.

Before the concrete has set, and while it is still adhesive, there should be laid on it a wearing surface one inch in thickness. This surface coating may be composed, if a sand finish is desired, of :

Portland cement 2 parts Sharp sand 3 "

Over this should be sifted a layer of the best Portland cement, the whole to be then levelled, neatly trowelled, and rolled with a tooth roller to make a surface which will not be slippery. A more durable surface coating, known as granolithic, may be had by using broken granite in place of the sand. This broken stone should have a square orcubical fracture, be clean and fresh, and of sizes three-eighths of an inch downward. The composition will then be :

Portland cement 2 parts Broken granite

The work should be kept moist, and protected from the rays of the sun with canvas, until thoroughly Traffic should be kept off for a set. period of about fifteen days.

The various parts, cement, sand

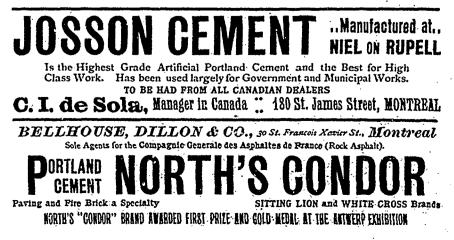
and broken stone, should be measured and mixed when dry, water then added as required, and the whole again thoroughly manipulated and mixed. There is a great necessity for careful and skilled workmanship, and an experienced man should have charge of the work.

If the sub-soil is of a nature to retain water, is low-lying and not sufficiently underdrained, a line of common field tile should first be placed below the centre of the walk. The surface of the finished walk should have a slope towards the gutter of one-quarter of an inch to each foot of width.

When built by a contractor, he should be required to guarantee that the walk shall last and remain in all respects in perfect order and condition, and free from all cracks and defects, and of perfect hardness, consistency, smoothness and finish, for at least the term of five years from the date of its completion, unless subjected to other influences than the ordinary effects of wear and weather.

Colonel Waring is, as he should be, a man of ideas, and one of his latest ones, says the American Architect, is that a great deal of unnecessary waste goes on in New York, owing to the practice of throwing all kinds of rubbish indiscriminately into the sea, or burning it as garbage. It is said that a certain contractor, before Colonel Waring's time, made a fortune every year by monopolizing the privilege of picking over the garbage before it was put on the dumping-scows, and preparations are now being made for having the city do its own picking over, by having the dry refuse, or what the street-cleaning department calls "paper," dumped on an endless belt, which moves slowly between two rows of men, who pick out the bottles, corks, tin cans and other things that can be utilized. How much profit there will be in this operation remains to be seen, but, as Colonel Waring says, if every family of ten people should waste five cents' worth of utilizable matter per day, and the city could save it, the proceeds would amount to nearly four million dollars a year, or enough to pay the expenses of the street-cleaning department, and the cost of sprinkling the streets in addition.

Star Wards and the second of a second start with the



いたいないな

3

CANADIAN CONTRACT RECORD.



7



Catalogues on Application.

Correspondence Solicited.

Sawyer & Massey Go., Ltd.

Prices of Building Materials.

LUMBER. VALD QUOTATIONS.

	UOTATIO			
	Tore	nto	Mont	1004
	1010	TLA!		ioui.
	\$	\$	\$	\$
Mill cull boards and scantlin Shipping cull boards, pr	ng g co	10 00	10 00	12 00
Shipping cull boards, pi	ro-			
miscuous widths	12 00	13 00		100
Shipping cull boards, stoc	ks15 00	10 00		11 00
Hemlock scantling and jo	ist			
Hemlock scanting and jo up to 16 ft Hemlock scantling and jo up to 26 ft Hemlock scantling and jo up to 20 ft	10 00	12 00		10 CO
Hemlock scantling and jo	oist			
up to 18 ft	11 00	2 00	13 00	13 00
Hemlock scantling and jo	oist			-
In to so B.	.12 00	13 00	13 00	14 00
Cedar for paving, per cord.		5 00	•	5 00
Cedar for kerbing, 4 x 1	t.a.	3		
Ceute for Account 4		14 00		14 00
per M. Scantling and joist, up to 1	× ()			
Scanting and joist, up to 1	8 ñ	14 00 15 00		14 00 16 00
		10 00		10 00 17 00 19 00 21 00 23 00 25 00 27 00
				10 00
Scantling and joist, up to 2	3 11	17 00		17 00
tı 11 gi	4 ft 6 ft	19 00		10 00
14 16 2	<u>, </u>	20 00		21 00
	٩Ū	22 00		23 00
	o [t	24 00		25 00
	2 ÎL	17 00		27 00
		30 20		20 50 31 00
·· ·· 3	6 ft 8 ft	31 00		31 00
	5 ft.	33 00		33 00 36 co
	4 11	31 00		36 CO
Cutting up planks, 11 a	nd			
		28 00	25 00	30 00
В.	м.			-
. 16 in flooring, dressed, F I	M. 14 00	_6 00	28 00	37 (0
. Kinch flooring, much, Bl	M. 18 00	22 00	18 00	22 00
and inclusion of the second F	1.00 00	28 00	37 00	30 00
is undreared B.	1.8.00	19 00	18 00	19 00
thicker, dry	18.00	20 00	18 00	22 00
ig in diressed			12 00	
THE IN UNDERSECT.	. 12 00	15 00		
Beaded sneeting, dressed	30.00	35 00	23 00	
Clapboarding, dressed		13 00	8 00	12 00
XXX sawn shingles, per	D1			
Beaded sheeting, dressed KXX sawn shingles XXX sawn shingles	2 35	2 35		3 00
XX sawn shingles	1 50	1 EO		
		2 0 0	2 50	2 60
		2 90		2 90
Redoak	30 00	40 00	30 00	40 00
White	. 27 00	45 00	35 00	55 00
Beremond No 1 and 2		30.00	18 00	20.00
Charmen No. 1 and 0		00 00	70 00	80 00
When seh No + and a		35 00	30 00	35 00
White Esh, No. 1 and 2		30 00	18 00	30.00
White Basswood, No. 1 and 2 Cherry, No. 1 and 3 White ash, No. 1 and 2 Black Ash, No. 1 and 2 Descine stocks			16 00	
Dressing stocks. Picks, American inspection		33 00	10.00	33 00
Picks, American inspection.	••	30 00		40.00
Three uppers, Am. inspection	on	50 OQ		50 <i>0</i> 0
BRICI	К 🌮 М			
Common Walling	••	6 50 8 00	7 30	8 00
Good Facing		8 00		8 50
Good Facing. Sewer Pressed Brick, Per	. 8 50	8 00	8 50	000
Dunned Buleb Per	M .	• •••	• 3•	•••
Red, No. 1, f.o.b. Beamsvil		15 00		17 02
Red, No. 1, 1.0.0. Deanisvi	116			
11 11 2		13 00		15 00
	••	21 00		13 (0
RGH ************************************	••	21 00		31 20
Brown	••	24 00		
Roman Red.	••	30 00		
er Buff	••	35 00 40 00		
II Brown	••	40 00	-	
Sewer		7 50	8 50	900
Hard Building	••	6 00	6 25	7 50
Roof Tiles	••	22 00		
Roof Tiles	h)	20		
Ridge Tile "	•	60		
Ridge The	х д.			
Ridge The	х д.	60		1 00
Ridge Tile	ND. İs			1 00
Ridge The	ND. is NE.	60		1 00
Ridge The	ND. is NE.	60 I 25		
Ridge The	ND. is NE.	60		11 00 1 00
Ridge The	ND. is NE.	60 1 25 10 00		11 00
Ridge Internet SAL Per Load of 1% Cabic Var STO Common Rubble, per toise delivered	ND. ds NE. c,	60 I 25		11 00 18 00
Ridge Tile	ND. ds NE. t,	60 1 25 10 00 14 00 37		00 11 00 81 02 81
Ridge Tile	ND. ds NE. t,	60 I 25 I 0 00 I 4 00	65	11 00 18 00 50 75
Ridge Ille	ND. ds NE. t,	60 1 25 10 00 14 00 37	65	00 11 00 81 02 81
Ridge Ille	ND. ds NE. t,	60 1 25 10 00 14 00 37	65	11 00 18 00 50 75
Ridge Ille	ND. ds NE. c,	60 1 25 10 00 14 00 37	65	11 00 18 00 50 75
Ridge Ille	VD. is NE. c,	60 1 25 10 00 14 00 37	65 60	11 00 18 00 50 75 1 05 25
Ridge Ille	VD. is NE. c,	60 1 25 10 00 14 00 37	60	11 00 18 00 50 75 1 05 25 70
Ridge Ille	ND. ds NE. c,	60 1 25 10 00 14 00 37		11 00 18 00 75 1 05 25 70 60
Ridge Tile	ND. is NE. c,	60 1 25 10 00 14 00 37	60 50	11 00 18 00 50 75 1 05 25 70
Ridge Internet SA2 Per Load of 1% Cubic Var STO Common Rubble, per toise delivered. Foundation Blocks, per c. fit Ballochmyle. Granite (Stanstead) Ashlar, in. to zo in., rise gun, per f Moat Freestone. St. Othelm, Bath Freeston Black Pasture, Freestone. Black Pasture, Freestone. Charke N. B. Brown Stom	ND. is NE. c,	60 1 25 10 00 14 00 37	60	11 00 18 00 75 1 05 25 70 60 70
Ridge Internet SA2 Per Load of 1% Cubic Var STO Common Rubble, per toise delivered. Foundation Blocks, per c. fit Ballochmyle. Granite (Stanstead) Ashlar, in. to zo in., rise gun, per f Moat Freestone. St. Othelm, Bath Freeston Black Pasture, Freestone. Black Pasture, Freestone. Charke N. B. Brown Stom	ND. is NE. c,	60 1 25 10 00 14 00 33 90	60 50	11 00 18 00 50 75 1 05 25 70 60 70 80
Ridge Internet SA2 Per Load of 1% Cubic Var STO Common Rubble, per toise delivered. Foundation Blocks, per c. fit Ballochmyle. Granite (Stanstead) Ashlar, in. to zo in., rise gun, per f Moat Freestone. St. Othelm, Bath Freeston Black Pasture, Freestone. Black Pasture, Freestone. Charke N. B. Brown Stom	ND. is NE. c,	60 1 25 10 00 14 00 37	60 50	11 00 18 00 75 1 05 25 70 60 70
Ridge Ille	ND. ds NE. c,	60 1 25 10 00 14 00 33 90	60 50	11 00 18 00 50 75 1 05 25 70 60 70 80
Ridge Ille	ND. ds iNE. e, 6 80	60 1 25 10 00 74 00 37 90	60 50	11 00 18 00 75 1 05 25 70 60 70 80 1 00
Ridge Ille	ND. ds iNE. e, 6 80	60 1 25 10 00 14 00 33 90	60 50	11 00 18 00 50 75 1 05 25 70 60 70 80
Ridge Ille	ND. ds INE. e, 6 6 t. 80 6 t. 80 80 80 1. 80 80 	60 1 25 10 00 74 00 37 90	60 50	11 00 18 00 50 75 1 05 25 70 60 70 80 1 00 90
Ridge Ille	ND. ds NE. c,	60 1 25 10 00 74 00 37 90	60 50	11 00 18 00 75 1 05 25 70 60 70 80 1 00
Ridge Ille	ND. is NE. c, 6 6 c, 80 80 80 80 	60 I 25 10 00 I 4 00 33 90 I 15 I 15	60 50 75	11 00 18 00 75 1 05 25 70 60 70 80 1 00 90 85
Ridge Ille	ND. is NE. c, 6 6 c, 80 80 80 80 	60 1 25 10 00 74 00 37 90	60 50	11 00 18 00 75 1 05 25 70 60 70 80 1 00 90 85
Ridge Tile	ND. 15 NE. 6, 6 6 14. 14. 	60 I 25 I 000 I 4 00 30 90 I 15 I 15 I 4 50	60 50 75	11 00 18 00 75 1 05 25 70 60 70 80 1 00 90 85
Ridge Ille	VD. is is iv is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is is 	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 32	60 50 75 14 00	11 00 18 00 50 75 1 05 25 70 60 70 80 1 00 90 85 14 50
Ridge Ille	VD. is VNE. c, VNE. c, v v v v c, c, c, c, c, c, c, c, c, c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 32	60 50 75 14 00	11 00 18 00 50 75 1 05 25 70 60 70 80 1 00 90 85 14 50
Ridge Ille	VD. is VNE. c, VNE. c, v v v v c, c, c, c, c, c, c, c, c, c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 32	60 50 75 14 00	11 00 18 00 50 75 1 05 25 70 60 70 80 1 00 90 85 14 50
Ridge Ille	VD. is VNE. c, VNE. c, v v v v c, c, c, c, c, c, c, c, c, c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 32	60 50 75 14 00	11 00 18 00 50 75 1 05 25 70 60 70 80 1 00 90 85 14 50
Ridge Ille	VD. is VNE. c, VNE. c, v v v v c, c, c, c, c, c, c, c, c, c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 32 TON 5 90	60 50 75 14 00	11 00 18 00 57 1 05 25 70 60 70 80 1 00 90 85 14 50 0.'s
Ridge Ille	VD. is VNE. c, VNE. c, v v v v c, c, c, c, c, c, c, c, c, c,	60 1 25 10 00 14 00 37 90 1 15 1 15 1 4 50 3 ² TON 5 ²	60 50 75 14 00	11 00 18 00 50 75 105 25 70 60 70 80 1 00 90 85 14 50 0.'s 1 105
Ridge Ille	VD. is VNE. c, VNE. c, v v v v c, c, c, c, c, c, c, c, c, c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 TON 5 90 95 60	60 50 75 14 00	11 00 50 75 1 05 25 70 50 70 80 70 80 70 80 70 80 70 85 1 00 70 85 1 00 70 85 1 00 70 85 70 90 85 71 1 00 70 85 70 70 70 85 70 70 70 80 70 70 80 70 70 70 70 70 70 70 70 70 70 70 70 70
Ridge Ille	VD. is VNE. c, VNE. c, v v v v c, c, c, c, c, c, c, c, c, c,	60 1 25 10 00 14 00 33 90 1 15 1 15 14 50 37 10 8 5 90 90	60 50 75 14 00	11 00 18 00 50 75 105 25 70 60 70 80 1 00 90 85 14 50 0.'s 1 105
Ridge Ille	VD. is NE. c, NE. c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 90 10 00 1 25 10 00 14 50 50 65	60 50 75 14 00	11 00 18 00 50 75 1 05 57 60 70 60 70 60 70 85 1 05 1 0 1 05 1
Ridge Ille	VD. is NE. c, NE. c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 TON 5 90 95 60	60 50 75 14 00	11 00 50 75 1 05 25 70 50 70 80 70 80 70 80 70 80 70 85 1 00 70 85 1 00 70 85 1 00 70 85 70 90 85 71 1 00 70 85 70 70 70 85 70 70 70 80 70 70 80 70 70 70 70 70 70 70 70 70 70 70 70 70
Ridge Tile	VD. 15 NE. 6 5 6 6 6 7 14 0 14 0 14 0 14 0 14 0 14 0 14 0 14 0 14 0 14 0 14 0 14 14 14 14 14 14 14 14 14 14	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 39 70N 5 65 65 1 10	60 50 75 14 00	11 00 18 00 50 75 1 05 70 60 70 80 1 05 70 1 00 1 00
Ridge Ille	VD. is is VNE. c, 	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 90 10 00 1 25 10 00 14 50 50 65	60 50 75 14 00	11 00 18 00 50 75 1 05 57 60 70 60 70 60 70 85 1 05 1 0 1 05 1
Ridge Ille	VD. is VNE. c, b. b. 	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 39 90 1 15 14 50 39 1 10 80	60 50 75 14 00	11 00 18 00 75 105 25 700 70 85 105 100 90 85 14 50 0.'S 1 20 90
Ridge Ille	VD. is NE. c, 	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 70 N 5 65 1 10 80 065	60 50 75 14 00	11 00 18 00 75 1 05 70 60 70 80 1 00 85 14 50 1 00 1 00 85 1 1 00 1 00 85 1 1 00 1 0
Ridge Hie	VD. is NE. c, 	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 15 14 50 50 50 51 1 10 80 65 1 10	60 50 75 14 00	11 00 18 00 75 105 25 700 70 85 105 100 90 85 14 50 0.'S 1 20 90
Ridge Hie	VD. is NE. c, 	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 15 14 50 50 50 51 1 10 80 65 1 10	60 50 75 14 00	11 00 18 00 75 1 05 70 60 70 80 1 00 85 14 50 1 00 1 00 85 1 1 00 1 00 85 1 1 00 1 0
Ridge Ille	VD. is VNE. c, 	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 32 90 1 10 80 05 65 1 10 80 05 65 1 10 80 05 65 1 10 80 05 65 1 10 80 05 1 10 1 10 1 15 1 15	60 50 75 14 00	11 00 18 00 75 1 05 70 60 70 80 1 00 85 14 50 1 00 1 00 85 1 1 00 1 00 85 1 1 00 1 0
Ridge Ille	VD. is NNE. c, NNE. c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 10 5 50 65 1 10 80 065/2(2) 1 10 80 065/2(2) 1 000/2(2) 1 15 1 15 1 15 1 10 1 000/2(2) 1 100/2(2) 1 10/	60 50 75 14 00	11 00 18 00 75 105 70 00 70 80 100 90 85 105 70 00 75 105 70 00 75 105 70 00 00 75 105 75 105 75 105 75 105 75 105 75 105 75 105 75 105 75 105 75 105 75 105 75 105 70 00 00 00 105 75 105 75 105 70 00 00 00 105 75 105 75 105 70 00 00 105 75 105 75 105 70 00 00 105 75 75 105 75 75 105 75 75 1100 75 75 75 75 1100 75 75 75 75 75 75 75 75 75 75
Ridge Ille	VD. is VNE. c, VNE. c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 90 1 15 14 50 37 90 1 15 14 50 37 90 1 15 1 15	60 50 75 14 00 rone c paid.	11 00 18 00 75 1 05 70 60 70 80 1 00 85 14 50 1 00 1 00 85 1 1 00 1 0
Ridge Ille	VD. is WE. c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 90 1 15 14 50 37 90 1 15 14 50 37 90 1 15 14 50 05 65 1 10 80 05 65 1 10 80 05 1 10 10 10 10 10 10 10 10 10 10	60 50 75 14 00 FONE C	11 00 18 00 75 1 05 70 00 75 1 05 70 00 1 00 85 1 05 75 1 05 75 1 20 90 00 5 1 05 75 1 05 75 75 1 05 75 75 75 75 75 75 75 75 75 7
Ridge Ille	VD. is NE. c, 	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 32 90 1 15 14 50 32 90 1 10 5 65 1 10 80 05 65 1 10 80 05 65 1 100 80 05 1 100 1 100	60 50 75 14 00 FONE C	11 00 18 00 75 105 70 60 70 60 70 85 75 105 70 60 70 85 75 105 70 60 70 85 75 105 70 60 70 85 75 105 75 105 75 105 75 105 75 105 75 105 75 105 75 105 75 105 70 60 70 85 75 105 75 75 105 75 75 105 75 75 105 75 75 105 75 75 105 75 75 105 75 75 105 75 75 105 75 75 75 75 75 75 75 75 75 7
Ridge Ille	VD. is NE. c, 	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 32 90 1 15 14 50 32 90 1 10 5 65 1 10 80 05 65 1 10 80 05 65 1 100 80 05 1 100 1 100	60 50 75 14 00 FONE C	11 00 18 00 75 1 05 1 0 1 05 1 1 05 10 10 10 10 10 10 10 10 10 10 10 10 10
Ridge Ille	VD. is NE. c, 	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 32 90 1 15 14 50 32 90 1 10 5 65 1 10 80 05 65 1 10 80 05 65 1 100 80 05 1 100 1 100	60 50 75 14 00 FONE C	11 00 18 00 75 105 70 60 70 60 70 85 75 105 70 60 70 85 75 105 70 60 70 85 75 105 70 60 70 85 75 105 75 105 75 105 75 105 75 105 75 105 75 105 75 105 75 105 70 60 70 85 75 105 75 75 105 75 75 105 75 75 105 75 75 105 75 75 105 75 75 105 75 75 105 75 75 105 75 75 75 75 75 75 75 75 75 7
Ridge Ille	VD. is NE. c, 	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 32 90 1 15 14 50 32 90 1 10 5 65 1 10 80 05 65 1 10 80 05 65 1 100 80 05 1 100 1 100	60 50 75 14 00 FONE C	11 00 18 00 75 1 05 1 0 1 05 1 1 05 10 10 10 10 10 10 10 10 10 10 10 10 10
Ridge Ille	ND. is NE. c, 	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 90 1 15 14 50 37 90 1 10 80 05 65 1 10 80 05 65 1 10 80 05 65 1 10 80 05 1 dutt 1	60 50 75 14 00 FONE C	11 00 18 00 75 1 05 70 07 07 1 00 90 85 1 05 75 1 00 90 85 1 05 75 1 00 90 85 1 05 75 1 00 90 85 1 05 75 1 105 75 1 105 75 1 105 75 1 105 75 1 105 75 1 105 75 75 1 105 75 75 1 105 75 75 1 105 75 75 1 105 75 75 1 105 77 75 1 105 75 1 105 1 10
Ridge Tile	VD. is NNE. c, NNE. c, NNE. c, so c, c, c, c, c, c, c, c, c, c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 90 1 15 14 50 37 90 1 15 14 50 37 90 1 15 14 50 05 65 1 10 80 05 65 1 10 80 05 1 10 10 10 10 10 10 10 10 10 10	60 50 75 14 00 FONE C	11 00 18 00 75 1 05 70 00 75 1 00 90 85 1 00 75 1 00 90 85 1 00 75 1 00 90 90 90 90 90 90 90 90 90
Ridge Ille	VD. is VNE. c, VNE. c, c, c, c, c, c, c, c, c, c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 90 1 15 14 50 15 14 50 15 10 00 1 15 14 50 10 00 1 15 10 00 1 15 1 10 1 15 1 10 1 15 1 10 1 10	60 50 75 14 00 rone c	11 00 05 75 5 1 05 70 07 50 00 85 50 75 1 20 75 1 20 50
Ridge Ille	VD. is VNE. c, VNE. c, c, c, c, c, c, c, c, c, c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 90 1 15 14 50 15 14 50 15 10 00 1 15 14 50 10 00 1 15 10 00 1 15 1 10 1 15 1 10 1 15 1 10 1 10	60 50 75 14 00 rone c	11 00 05 75 10 5 70 07 10 00 10 10 10 10 10 10 10 10 10 10 10
Ridge Tile	VD. is VNE. c, VNE. c, c, c, c, c, c, c, c, c, c,	60 1 25 10 00 14 00 37 90 1 15 1 15 14 50 37 90 1 15 14 50 15 14 50 15 10 00 1 15 14 50 10 00 1 15 10 00 1 15 1 10 1 15 1 10 1 15 1 10 1 10	60 50 75 14 00 rone c	11 00 05 75 5 1 05 70 07 50 00 85 50 75 1 20

	Canadian Art
Architects. Ontario DirectoryIII Quebec Directory ii	Oontractors' Plant and Machinery Rice Lewis & Son IV
Architectural Sculp- tort and Carvers. Carroll, Rebett 111	Coments. Bremner, Alex i Currie & Co., W&FP xii Owen Sound Portland
tort and Carvers. Carroll, Rebett III C nnell, L. M. vi Holbrook & Molling. ton	Owen Sound Portland Cement Co IV T e Rat ibu i Co IV
ton i Lamar & Metge111 drchitectural Irots Work.	Drain Pino
Dominion Bridge Co. I Art Woodscork	Bremner, Alex i Currie & Co. W&F.P. xii Hamilton and Toronto Sewer Pipe Co xii
Southampton Mfg.Co. IV Boller Covering	Elevators Darling Bros ii
Mica Boiler Covering Co	Fensom, John I Leitch & Turnbull I Miller Bros & Toms vi
Beamsville Pressed Brick Co i Builders' Supplies.	Engravers. Can. Photo-Eng Bu-
Bremner, Alex i Currie & Co., W& FP xii Montreal Directory xi Ontario Lime Associa-	reau 11 Fire Brick and Clay
Ontarlo Lime Associa- tion	Brenner, Alex i Currie & Co, W&FP. xii Folding Partitions.
Toronto Directory xi Building Stone Dealers.	Polding Partitions. Springer, O. Tviii Galvanized Iron
Dealers. Brodie, James vii Couzens, James J vii Credit Forks Mining	Workers. Ormsby & Co., A. B., I
Credit Forks Mining & Míg. Co	Grilles and Railings. Dennis Wire & Iron
Moir, D. W vii Samuel, Friomas, & Son vii	Co vi Meadow, Geo B vii Toronto Fence & Orca. mertal Iron Works. vi
Credit Forks Alining & Mig. Co	Granite
Builders' Hard	Brunet, Jos vii Brodie, Jemes vii Moir, D W vii
icare. Rice Lewis & Soa IV Creosolo Stains	Heating. Darling Bros ii Gumey, Tilden Co rii
Cabot, Samuel IV Ch ch and School urniture.	Howard Furnace Co vi King & Son, Warden III McClary Mfr. Co II
Canface & School Furniture Co vi i	Identified and a second and a second and a second a secon
Chimney Toppiny. Bremner, Alex i Currie & Co., W&FP xii	Co ini The James Smart Mfg Co X
Kent Free stone Quarries M	operton. N.B.
	outriant tribit
per cu. ft., f.o.b. River John, N. S., brown a cu. ft., f.o.b.	reestone, per 95 95
per cu. ft., f.o.b. River John, N. S., brown i cu. ft., f.o.b. Quebec and Vermont roug building purposes, per c. ft. For ornamental work. cu. ft.	reestone, per freestone, per 95 95 h granite for .f.o.b. quarry. 40 1 00
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermont roug building purposes, per c.ft For ornamental work, cu. ft. Granite paving blocks, 8 iu x4% in. per M Gran te curbing stone, 6 in	rectione, per 95 95 h granite for f.o.b.quarry. 40 1 00 to 12 in.x6 in. x20 in. per
per cu. ft., f.o.b. River John, N. S., brown i cu. ft., f.o.b. Quebec and Vermont roug building purposes, per c.ft. For ornamental work, cu. ft. Granite paving blocks, 8iu x4% in. per M. Gran te curbing stone, 6 in lineal foot	1 00 95 Freestone, per 95 95 h granite for 16.b. quarty. 40 to za in. 26 in. 50 co
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermont roug building purposes, per cft For ornamental work, cu. ft. Granite paving blocks, 8 itu x4½ in. per M Gran te curbing stone, 6 it lineal foot SXA Roofing (@ square).	100 95 Freestone, per 95 95 h granite for 95 95 i.o.b.quary. 40 100 to 12 in.x6 in. 50 co 100 .x20 in. per 70 70 TFE. TOPODIO. MODIFICAL.
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermont roug building purposes, per cf. For ornamental work, cu. ft. Granite paving blocks, 8inu x4½ in. per hl. Gran te curbing stone, 6 in lineal foot SIA Roefing (¥ square). " red	100 95 Freestone, per 95 95 h granite for 95 95 h granite for 40 100 to zzin.x6 in. 50 co 100 .x 20 in. per 70 70 THE. TOFODIO. MODIFICAL, 18 00 20 00 50 00
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermont roug building purposes, per c.ft For ornamental work, cu. ft. Granite paving blocks, 8in x4/5 in. per hl. Cran te curbing stone, 6 in lineal foot. SLA Roofing (V square). " red	100 95 Freestone, per 95 h granite for 95 h granite for 95 h granite for 95 to zzin.x6 in. 40 to zzin.x6 in. 50 co x 20 in. per 70 THE. 70 18 co 20 co 00 70 co 200 70 co
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermont roug bailding purposes, per c.ft For ornamental work, cu. ft. Granite paving blocks, 8 in x4% in. per M. Gran te curbing stone, 6 in lineal foot SLA Roefing (V square). " red " unfading greet " black Terra Cotta Tile, per 8q Ornamental Black Slate Roof PAINTS. (100 95 Freestone, per 95 h granite for 95 f.o.b. quary. 40 to 12 in.x6 in. 50 .x00 in. per 70 TPF. TOPONIO. 18 00 7000 000 700 800 650 25000 2500 18 800 2000 18 800 2000 18 800 2000 18 800 2000 18 800 650 25 000 25 00 100 8 50 100 8 50 100 12
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermont roug building purposes, per cf. For ornamental work, cu. ft. Granite paving blocks, 8in x4/s in. per M. Bran te curbing stone, 6 in lineal foot <i>BLA</i> Roofing (Ø square). <i>BLA</i> Roofing (Ø square). <i>BLA</i> PALINTS. (White lead, Can., per solb: <i>" inc. Can., " "</i>	100 95 Freestone, per 95 h granite for 95 h granite for 95 h granite for 95 to zz in. 26 in. 40 to zz in. 26 in. 50 co to zz in. 26 in. 70 THE. 70 TOPODIO. MODIF881. 18 00 700 00 700 1000 700 25 00 25 00 100 6 50 100 10 100 10 100 500 100 500
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermoni rough building purposes, per c.ft For ornamental work, cu. ft. Granite paving blocks, 8in x4% in. per M. Brand E paving blocks, 8in x4% in. per M. Brand E symmetric for the symmetric start for the symmetric BLA Roofing (V symmetric undading greet black Terra Cotta Tile, per sq Ornamental Black Slate Zoof PAINTS. (White lead, Can., per so lbs " vernillion	$\begin{array}{c} 1 \\ \hline 1 \\ 1 \\$
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermont roug building purposes, per cf. For ornamental work, cu. ft. Granite paving blocks, 8iu. x4½ in. per M Gran te curbing stone, 6 if lineal foot <i>SLA</i> Roofing (¥ square). " red " purple " purple " purple " uniading greet " black " purple " black " crara Cotta Tile, per sq Ornamental Black Slate Roof <i>PAINTS.</i> (White lead, Can., per sool bk " vermillion " vermillion " vermillion	$\begin{array}{c} 1 \\ \hline 1 \\ 1 \\$
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermont rough building purposes, per c. ft For ornamental work, cu. ft. Granite paving blocks, 8iu. x4½ in. per M. Brane curbing stone, 6 in lineal foot <i>BLA</i> Roofing (V synare). " red Terra Cotta Tile, per 80 Ornamental Black Slate Roof " zinc, Can., " " Red lead, Eng " vermillion " vermillion " Paris Yellow chrome Green, chrome " Paris	$\begin{array}{c} 1 \\ \hline \\$
per cu. ft., f.o.b River John, N. S., brown i cu. ft., f.o.b Quebec and Vermont roug bailding purposes, per cf. For ornamental work, cu. ft. Granite paving blocks, 8iu x4½ in. per M. Barn te curbing stone, 6 in lineal foot <i>SLA</i> Roofing (Ø square). " red " unfading greet " black " unfading greet " black " unfading greet " black <i>PAINTS.</i> (White lead, Can, per 100 lbs " ventillion " ventillion " ventillion " ventillion " ventillion " ventillion " Vellow chrome Green, chrome " Data Lamp Black lamp Black lamp Blue, ultranarine Oil, linseed, bi'd, by bbl., 3	$\begin{array}{c} 1 \\ \hline \\$
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermoni roug bailding purposes, per cf. For ornamental work, cu. ft. Granite quving blocks, 8 in x4/s in. per h1 Cranite quving blocks, 8 in x4/s in. per h1 Roofing (V square). " red " red " red " red " red " musiading greet " black Terra Cotta Tile, per sq Ornamental Black Slate Zoof PAINTS. (White lead, Can., per sol bla " zinc, Can., " " Red lead, Eng " wenetian, per 100 bls " vermillion " Peris Black lamp Black lamp	100 95 Freestoore, per 95 95 freestoore, per 95 95 h granite for 95 95 h granite for 95 95 h granite for 40 100 to tazin.x6 in. 70 70 The contract of the cont
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermoni roug bailding purposes, per cf. For ornamental work, cu. ft. Granite quving blocks, 8 in x4/s in. per h1 Cranite quving blocks, 8 in x4/s in. per h1 Roofing (V square). " red " red " red " red " red " musiading greet " black Terra Cotta Tile, per sq Ornamental Black Slate Zoof PAINTS. (White lead, Can., per sol bla " zinc, Can., " " Red lead, Eng " wenetian, per 100 bls " vermillion " Peris Black lamp Black lamp	100 95 Freestoore, per 95 95 freestoore, per 95 95 h granite for 95 95 h granite for 95 95 h granite for 40 100 to tazin.x6 in. 70 70 The contract of the cont
per cu. ft., f.o.b River John, N. S., brown i cu. ft., f.o.b Quebec and Vermoni roug building purposes, per cf. For ornamental work, cu. ft. Granite paving blocks, 8in. x4/s in. per hl. inral foot Granite curbing stone, 6 in lineal foot <i>Back</i> Roofing (V square). <i>Back</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i> <i>red.</i>	$\begin{array}{c} 100 & 95 \\ \hline reatione, per \\ \hline 95 & 95 \\ \hline reatione, per \\ \hline 95 & 95 \\ \hline reatione, per \\ \hline 10 & 12 & 12 & 61 \\ \hline 10 & 12 & 12 & 61 \\ \hline 10 & 12 & 12 & 61 \\ \hline 10 & 12 & 12 & 61 \\ \hline 10 & 12 & 12 & 61 \\ \hline 10 & 10 & 10 \\ \hline 10$
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b. Quebec and Vermont roug bailding purposes, per cf. For ornamental work, cu. ft. Granite paving blocks, 8in. x4% in. per M. Branite curbing stone, 6 in lineal foot <i>SIA</i> Roofing (V synare). " red " red	$\begin{array}{c} 1 \\ \hline 1 \\ 1 \\$
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermoat rought bailding purposes, per c. ft For ornamental work, cu. ft. Granite paving blocks, 8in. x4½ in. per M. Bailer State State State " red	$\begin{array}{c} 1 \\ \hline 1 \\ 1 \\$
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermont roug building purposes, per cf. For ornamental work, cu. ft. Granite paving blocks, 8iu. x4½ in. per M. Barante curbing stone, 6 in lineal foot <i>SLA</i> Roofing (V synare). " red " purple " uniading greet " black Terra Cotta Tile, per so Ornamental Black Slate Roof <i>PAINTS</i> . (White lead, Eng	$\begin{array}{c} 1 \\ \hline 1 \\ 1 \\$
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermoni roug bailding purposes, per cf. For ornamental work, cu. ft. Granite paving blocks, 8in. x4/s in. per hl. Ineal foot Granite curbing stone, 6 in lineal foot <i>st.A</i> Roofing (V square). " red " red " red " red " uniading greet " black Terra Cotta Tile, per sq Ornamental Black Slate Roof <i>PAINTS.</i> (White lead, Can., per soo lbs " venetian, per too lbs " venetian, per too lbs " venetian, per too lbs " venetian, per too lbs " lollow ochre " Vellow chrome Black lamp Black lamp Black lamp Black lamp Coll, linseed, refined, Vine, g. (Less than bbl., 5c. Patisy Ventland Cements Germar, per bbl Condon " North's "Condor" English, artifical, per bbl. Bleglish, artifical, per bbl. Black, jord, per bbl Black furp Dottland Cements Belgian, Josson, artificial. North's "Condor" English, artifical, per bbl. Belgian, patural, per bbl. Belgian, Jasson, artificial.	$\begin{array}{c} 1 \\ \hline 1 \\ 1 \\$
per cu. ft., f.o.b River John, N. S., brown a cu. ft., f.o.b Quebec and Vermont roug building purposes, per cf. For ornamental work, cu. ft. Granite paving blocks, 8iu. x4½ in. per M. Barante curbing stone, 6 in lineal foot <i>SLA</i> Roofing (V synare). " red " purple " uniading greet " black Terra Cotta Tile, per so Ornamental Black Slate Roof <i>PAINTS</i> . (White lead, Eng	$\begin{array}{c} 1 \\ \hline 1 \\ 1 \\$

Interior Decoration Castle & Son......viij Elliott, W. H.....vi ai Luxfer Priams, Luxfer Prion Co..... iv i e i i Machinery Petrie, H. W..... III Phelps Machine Co. viii rii Mantles, Grates, and Tiles. Holbrook&Mollington i Rice Lewis & Son....IV ïi 1 vi Mortar Colors and Shingle Stains. Cabot, Samuel...... IV Muirhead, Andrew.... i 11 v i Ornamental Iron Nork. Toronto Fence & Orna-mental Iroa Works.. vi ιü #. iii Painters. Montreal Directory... xi Toronto Directory.... xi I Plasterors Hynes, W. J..... xi Paints & Varnishes Muirhead, Andrew ... vi 111 Parquetry Floors Elliott, W H vi

INDEX TO ADVERTISEMENTS

in the "Canadian Architect and Builder."

vi ni nii Plumbors Montreal Directory... zi Toronto Directory... xi

Roof Snow Guards. Gunn, R A..... IV x

Ranitary Appli-ances Garth & Co...... vi Toronto Steel Clad Bath & Metal Co...... roq The James Robertson Co...... x 1 Shingle Stains Cabot, Samuel...... IV

Stained and Decors. tise Glass Castle & Son., H., vill Horwood & Sons, H., vill Hobbs Glass Works... ii Lyon, N. T...... vill Mackey Stained Glass

Typeserilers, Elc. Spackman&Archibald IV

Wall Plaster Albert Mfg. Co..... ii Gander, J. M..... xi The A'abastine Co... x

Toronto. Montreal.

	TOLOUIO.	MOULTON.
Cement (
Hydraulic Cements		
Thorold, per bbl	- I 75	125 150
Queenston, "	- I 75	1 50 1 60
Napanee, n		X 50
PERSIL. 10		
Ostario, "	. 151	
Keene's Coarse "Whites"	4 50 4 75	500 5 50
Fire Bricks, Newcastle, per h	1 27 00 35 00	15 00 21 00
"Scotch " Lime, Per Barrel, Grey "White	27 00 35 00	70 00 21 00
Lime, Per Barrel, Grey	• 40	
II II White		
Plaster, Calcined, N. R	. 200	1 50
N. S	. 200	1 50
Plaster, Calcined, N. R "N.S Hair, Plasterers', oag.	80 100	
HARD		
The following are the one	tations to bui	Iders for mails
The following are the quo at Toronto and Montreal :		receiptor many
Cut nails, 50d & 60d, per ke	g 2.25	2 25
Steel II II II II	2 2 2	4 25
Steel II II II II CUT NAILS, PENCE	AND CUT SP	2 35.
40d, hot cut, per zos lbs	. 2 30	
10 to 16d, ho: cut	. 235	
8d, 9d, 11 17		
40 to 50, " "		
ad, """		
Cut spiket, so cents per k	• 3 • 3 • 7 odvance	3 15
Steel Nails, scc. per keg	es autauco	
Iron	Pine:	
		· · ·
Iron pipe, 14 inch, per foot.	. 6	c. `6c.
Iron pipe, 3/ inch, per foot.	. 6	
Iron pipe, X inch, per foot.	. 6 . 7	c. `6c. ⅓ ⁷ 8,⅓
Iron pipe, X inch, per foot. 	. 6 . 7 . 8	
Iron pipe, ½ inch, per foot.	. 6 . 7	× 834
Iron pipe, ¼ inch, per foot. """, ¼ """", """, """, """, """, """, "	. 6 . 7 . 8	7 834 12 17
Iron pipe, ½ inch, per foot. 11 11 32 11 11 . 11 12 11 11 . 11 12 11 11 . 11 12 11 11 . 11 12 22 11 11 . 11 11 22 11 11	. 6 . 7 . 8 . 12 . 17	7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Iron pipe, ½ inch, per foot. 11 11 ½ 11 11 11 11 11 ½ 11 11 11 12 ½ 11 11 11 12 ½ 11 11 11 12 ½ 11 11 11 12 11 11 11 12 11	. 6 . 7 . 8 . 12 . 17 . 24 . 30 . 43	7 5 12 17 24 30
Iron pipe, % inch, per foot.	. 6 7 . 8 . 12 . 17 . 24 . 30 . 43 . 30	7 54 835 12 17 24 30
Iron pipe, ½ inch, per foot. 11 11 ½ 11 11 11 11 11 ½ 11 11 11 12 ½ 11 11 11 12 ½ 11 11 11 12 ½ 11 11 11 12 11 11 11 12 11 11 11 11 1	. 6 7 . 8 . 12 . 17 . 24 . 30 . 43 . 30	7 54 835 12 17 24 30
Iron pipe, ½ inch, per foot. """ ½ """"""""""""""""""""""""""""""""	. 6 . 7 . 8 . 12 . 17 . 24 . 30 . 43 . 30 . 43 . 30 . 43 . 20 . 43 . 20 . 43 . 20 . 43 . 20 . 43 . 20 . 43 . 20 . 44 . 5 . 5 . 5 . 5 . 5 . 6 . 6 . 7 . 7 . 7 . 7 . 7 . 7 . 7 . 7 . 7 . 7	7 54 835 12 17 24 30
Iron pipe, ½ inch, per foot. """ ½ """"""""""""""""""""""""""""""""	. 6 . 7 . 8 . 12 . 17 . 24 . 30 . 43 	7 834 12 17 24 30 43
Iron pipe, ½ inch, per foot. """ ½ """ """ ½ """" """ ½ """" """ ½ """" """" Toronto, 70 per cent. dis Montreal, 70 per tent. dis Lead pipe, per ib	. 6 . 7 . 8 . 12 . 17 . 24 . 30 . 43 	7 834 12 17 24 30 43
Iron pipe, ½ inch, per foot. " " ½ " " " " " " ½ " " " " " " ½ " " " " " " ½ " " " " " " " " " " " " " " ½ " " " " " " " " " " " " " " " " " " "	. 6 . 7 . 8 . 12 . 30 . 43 sount. iscount. Pipe: . 7	7 54 835 12 17 24 30
Iron pipe, ½ inch, per foot. """ ½ """"""""""""""""""""""""""""""""	. 6 7 8 12 12 14 30 50 14 15 15 15 15 15 15 15 15 15 15 15 15 15	7 834 12 17 24 30 43
Iron pipe, ½ inch, per foot. " " ½ " " " " " " ½ " " " Toronto, 70 per cent. dis Montreal, 70 per cent. di Lead Lead pipe, per lb Gateantis Adam's—Mar's Best and O.	. 6 7 8 12 17 24 30 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 50 43 30 50 43 30 50 43 30 50 43 30 50 43 30 50 43 30 50 50 43 30 50 50 43 30 50 50 50 50 50 50 50 50 50 50 50 50 50	2 3 3 3 4 4 3 4 3 4 3 4 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4
Iron pipe, ½ inch, per foot. " " ½ " " " " " " " " " " " " " " " " "	. 6 7 8 12 17 24 30 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 43 30 50 43 30 50 43 30 50 43 30 50 43 30 50 43 30 50 43 30 50 50 43 30 50 50 43 30 50 50 50 50 50 50 50 50 50 50 50 50 50	2 3 3 3 4 4 3 4 3 4 3 4 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4
Iron pipe, ½ inch, per foot. """ ½ """"""""""""""""""""""""""""""""	. 6 7 8 12 12 12 12 12 12 12 12 12 12 12 12 12	7 5 5 5 5 5 5 5 5 5 5 5 5 5
Iron pipe, ½ inch, per foot. " " ½ " " " " " " " " ½ " " " " " " " ½ " " " " " " " " " ½ " " " " " " " ½ " " " " " " " " " ½ " " " " " " " " " " " " " " " " " " "	. 6 7 8 12 12 14 12 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	7 5 5 5 5 5 5 5 5 5 5 5 5 5
Iron pipe, ½ inch, per foot. " " ½ " " " " " " " " ½ " " " " " " " ½ " " " " " " ½ " " " " " " ½ " " " " " " ½ " " " " " " " " ½ " " " " " " " " ½ " " " " " " " " " " " " " " " " " " "	. 6 7 8 12 12 14 12 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	7 5 5 5 5 5 5 5 5 5 5 5 5 5
Iron pipe, ½ inch, per foot. " " ½ " " " " " " " " ½ " " " " " " " ½ " " " " " " ½ " " " " " " ½ " " " " " " ½ " " " " " " " " ½ " " " " " " " " ½ " " " " " " " " " " " " " " " " " " "	. 6 7 8 12 12 14 12 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	7 5 5 5 5 5 5 5 5 5 5 5 5 5
Iron pipe, ½ inch, per foot. " " ½ " " " " " " " " ½ " " " " " " " ½ " " " " " " ½ " " " " " " ½ " " " " " " ½ " " " " " " " " ½ " " " " " " " " ½ " " " " " " " " " " " " " " " " " " "	. 6 7 8 12 12 14 12 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	7 5 5 5 5 5 5 5 5 5 5 5 5 5
Iron pipe, ½ inch, per foot. " " ½ " " " " " " " " ½ " " " " " " " ½ " " " " " " ½ " " " " " " ½ " " " " " " ½ " " " " " " " " ½ " " " " " " " " ½ " " " " " " " " " " " " " " " " " " "	. 6 7 8 12 12 14 12 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	7 5 5 5 5 5 5 5 5 5 5 5 5 5
Iron pipe, ½ inch, per foot. " " ½ " " " " " " " " " " " " " " " " "	. 6 . 7 . 7 . 24 . 24 . 24 . 30 . 30 . 30 . 6 . 43 . 30 . 6 . 7 . 7 . 7 . 7 . 7 . 7 . 7 . 7	7 3 3 12 17 24 30 43 43 43 43 43 43 43 43 43 43
Iron pipe, ½ inch, per foot. """ ½ """" """ ½ """"""""""""""""""""	. 6 . 7 . 7 . 24 . 24 . 24 . 30 . 30 . 30 . 6 . 43 . 30 . 6 . 7 . 7 . 7 . 7 . 7 . 7 . 7 . 7	7 3 3 12 17 24 30 43 43 43 43 43 43 43 43 43 43
Iron pipe, ½ inch, per foot. """ ½ """" """ ½ """"""""""""""""""""	. 6 7 8 8 12 12 14 30 30 30 30 30 30 4 30 4 30 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7 5 5 5 5 5 5 5 5 5 5 5 5 5
Iron pipe, % inch, per foot. """ * 54 """ "" * 54 "" "" * 54 ""	6 6 7 12 12 12 12 12 12 12 12 12 12	2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5
Iron pipe, ½ inch, per foot. """ 24 """ """ 24 """" """ 24 """" """ 24 """" """ 24 """" """ 25 """ """ Toronto, 70 per cent. disc Montreal, 70 per cent. disc Gadransfa Adam's-Mar's Best and Q 16 to 24 guage, per lb	6 7 8 8 17 17 24 30 30 30 30 30 30 43 30 30 43 30 30 43 30 30 43 30 30 43 30 30 43 30 30 43 30 30 30 30 30 30 30 30 30 3	7 5 5 5 5 5 5 5 5 5 5 5 5 5
Iron pipe, ½ inch, per foot. """ 24 """ """ 24 """" """ 24 """" """ 24 """" """ 24 """" """ 25 """ """ Toronto, 70 per cent. disc Montreal, 70 per cent. disc Gadransfa Adam's-Mar's Best and Q 16 to 24 guage, per lb	6 7 8 8 17 17 24 30 30 30 30 30 30 43 30 30 43 30 30 43 30 30 43 30 30 43 30 30 43 30 30 43 30 30 30 30 30 30 30 30 30 3	2 2 2 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5
Iron pipe, ½ inch, per foot. """ 24 """ """ br>Toronto, 70 per cent. dis Montreal, 70 per cent. dis Montreal, 70 per cent. dis Montreal, 70 per cent. dis <i>Lead</i> pipe, per lb	6 7 8 8 12 12 14 30 30 30 30 30 43 30 43 30 43 30 43 30 43 30 43 43 43 43 5 5 5 5 5 5 5 5 5 5 5 5 5	7 5 5 5 5 5 5 5 5 5 5 5 5 5
Iron pipe, ½ inch, per foot. """ 24 """ """ 24 """ """ 24 """ """ 24 """ """ 24 """ """ 25 """ """ 26 """ """ 27 """ """ 28 """ """"	6 7 8 8 12 12 14 30 30 30 30 30 43 30 43 30 43 30 43 30 43 30 43 43 43 43 5 5 5 5 5 5 5 5 5 5 5 5 5	2 2 2 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5

1

(CORRECTED UP TO JUNE 9TH.)

Reflectors Frink, I. P.....