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THIS PAPER REACHES EVERY WEEK THE TOWN AND CITY CLERKS, TOWN AND CITY ENGINEERS, COULTY CLERKS AND COUNTY ENGINEERS THROUGHOUT CANADA.

Vol. 5.

DEGEMBER 6, 1894

No. 44

THE CANADIAN CONTRACT RECORD.

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

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C. H. MORTIMER, Publisher,

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Information solicited from any part of the Dominion regarding contracts open to tender.

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

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

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TO BUILDERS

AND HOUSE MOVERS.

Tenders will be received by the undersigned up to 12 o'clock noon on MONDAY, THE 10TH DECEMBER, for the moving of Hotel Hanlan, situated on Toronto Island, and for the erection of new foundations for the same.

For plans, specifications, and for all information, apply to A. R. Denison, architect, 20 King Street West. The lowest or any tender not necessarily accepted.

R. A. SMITH,
Secretary Toronto Ferry Co.,
18 King Street West, Toronto.

TENDERS

Will be received by Rev. P. T. Mignot, Milton W., Ont., until SATURDAY, DECEMBER 22ND, for the erection of

GRACE CHURCH, MILTON.

Plans and specifications may be seen at the Rectory, Milton, and at the office of

C. J. GIBSON, Architect, 9½ Adelaide St. E., Toronto.

CONTRACTS OPEN.

TILBURY CENTRE, ONT.—It is proposed to build a new Episcopal church here.

HARRISTON, ONT.—It is stated that R. G. Lambert will erect a fine new residence next spring.

GUELPH, ONT. - The sum of \$20,000 has been subscribed towards the erection of rolling mills in this city.

BUCKINGHAM, QUE.—It is said that the Buckingham Mfg. Co. will rebuild their pulp mill recently burned.

GALT, ONT.—It is stated that the Grand Trunk authorities have under consideration the erection of a new station in this town.

ROLLING DAM, N. B.—It is reported that a new company will build a saw mill here, but no further particulars are as yet made public.

QUEBEC, QUE.—Mr. D. Ouellet, architect, is preparing plans for two churches, one to be erected at Gaspe, and the other at Temiscouata.

THESSALON, ONT.—It is understood that a vote of the ratepayers will be taken in January on a by-law to provide funds for a system of fire protection.

ST. THOMAS, ONT.—Tenders for the purchase of \$15,000 of debentures issued by the County of Elgin are invited by K. W. McKay until the 12th inst.

MEDICINE HAT, N. W. T.—Surveys, are being made here by a Dominion government engineer for a new traffic bridge over the Saskatchewan river.

LEVIS, QUE.—The warden of the Catholic church here has decided to have plans prepared for alterations and additions proposed to be made to the church.

BRANTFORD, ONT.—The Public School Board has requested the City Council to submit a by-law to the ratepayers to raise the sum of \$35,000 for the erection of two new schools.

ATHERLEY, ONT.—Work will be commenced in the spring on a new Methodist church to be erected here, the material for which will be placed on the ground this winter.

PORT ROWAN, ONT.—Mr. Geo. W. Gouinlock, architect, of Toronto, has just completed plans for converting J. G. Boucher's brick mill in this town into a modern hotel, to be known as the Royal. Tenders will be received by Mr. Boucher here.

KINGSTON, ONT.—The Board of Works has decided to recommend to the City

Council the construction of the King street drain, at a cost of \$5,000.—Messrs. Connolly Bros. will build a large dredge here, at a cost of \$50,000. P. Hume is preparing the specifications.

MITCHELL, ONT.—John Roger, O. L. S., will receive tenders until the 15th inst. for the enlargement of what is known as the Northwest drains, in the township of Logan. The total length of the drains is about 15 miles. Specifications may be seen at Mr. Roger's office, Bank Block.

AYLMER, QUE.—Messrs. Poupore & Fraser, contractors for the waterworks, have commenced operations. It is stated that the Council will consider the construction of a drainage system in connection with the work, but an amendment to the Town charter is required before operations can be commenced.

LONDON, ONT.—Rev. Dr. Potts, of Toronto, and Rev. W. W. Shepherd, President of the London Methodist Conference, list week interviewed the Dominion Government with a view to obtaining financial assistance towards the erection of a new Indian school on the Caradoc reserve, near this city. The new building will cost \$20,000, of which the sum of \$16,000 has been subscribed.

HALIFAX, N. S.—Tenders are invited by the corporation until Tuesday, the 18th inst., for the supply of 8,000 square yards of granite paving blocks, 6,400 lineal feet of straight gutter stones and 240 lineal feet of corner gutter stones. Tenders are also invited until the 8th of January, 1895, for the supply of 4,000 barrels of Portland cement. Specifications may be obtained from the City Engineer, Mr. F. W. W. Doane.

CHATHAM, ONT.—Several well-known business men among whom are L. Englehart and John Kerr, of Petrolea, Matthew Wilson, Q. C., and Wm. Ball, of Chatham, propose to construct a new railway connecting Chatham, Petrolea and Wallaceburg, and eventually extending to a point on Lake Erie. A chatter will at once be applied for, and the undertaking will be pushed to completion without delay, as the promoters are said to be business men.

SHERBROOKE, QUE. Hon. Mr. Panneton has moved in the Provincial Legislature that a grant of \$20,000 be made for a new court house at this place. He stated that the sum of \$5,000 had been voted for new heating apparatus in the building, and pointed out that the money had not been expended because a new building would soon be required.—The City Council has decided to offer a cash bonus and a free site to the Jenckes Machine Co. to induce them to erect their workshops in this town. It is probable the offer will be accepted by the company.

NIAGARA FALLS, ONT.—The Ly-law to raise the sum of \$88,000 for sewerage purposes was defeated by the ratepayers, on Monday last. As this is the second defeat it is not probable the question will

be brought up again for some time.— It has been rumored for some time past that the construction of a new bridge to replace the Upper Suspension bridge over the Niagara River was under consideration. In reply to an enquiry, Mr. J. M. Bostwick, Treasurer of the Bridge Company, stated that their engineer, Mr. Buck, had been engaged on plans for some time. Two sets are being prepared, one to alter the present structure and one for a new steel arch bridge. The plans would be completed early in January, when the company would decide whether to enlarge the old one or erect a new structure.

WINNIPEG, MAN The City Council will receive proposals until Tuesday, the 22nd of January, 1895, for the establishment and operation of works and plant for the supply of gas and electric light for the lighting of buildings. Particulars may be obtained from Mr. H. N. Ruttan, City Engineer. The Fite and Light Committee of the City Council has recommended the purchase of an additional fire engine, at an estimated cost of \$5,000 Mr. L. A. Hamilton, C. P. R. Laid commissioner, recently returned from Ottawa and Montreal. The object of his visit was to interview the Dominion Government on the irrigation scheme the company have in view to benefit Southern Alberta and Western Assimboia. It is understood that a decision will be given the company by the government at an early date.

HAMILTON, ON1. The proposed new bridge over the canal at Burlington Beach is estimated to cost \$30,000. The Toronto, Hamilton and Buffalo Railway. Co. has been reorganized, with Mr. S. E. Peabody, of Boston, as President. It has been definitely decided to construct a line from Hamilton to Welland and also from Hamilton to Toronto.—Messrs. Stanley, Mills & Co., dry goods merchants, have purchased what is known as the Kelly estate on King street, facing the Gore Park, having a frontage of 53 feet. They intend, as soon as the present lease expires, to erect a mammoth five-story building for a departmental store. The work will be in charge of Mi. Chailes Mills, architect, who will shortly start on the plans. The County Council has decided that the overhead bridge which the T. H. and B. Railway Company propose to erect over the Dundas and Binkley road shall be 14 feet above the road, instead of 12 feet as proposed by the company.

MONTREAL, QUL. The Road Department has given notice that it is proposed to construct a sewer on Gaudry streef, from St. Antoine street to Plymouth Grove. – The Health Committee has recommended the erection of two incinerators, at a cost of \$30,000 each, one on the Amos property, St. Denis Ward, and the other on the Bayard property, near Fiontenac street.—The Harbor Commissioners of Montreal are asking for tenders for the supply of timber and deals for the year 1895,

to be received by the Secretary, Alexander Robertson, before Tuesday the 18th inst. -The Royal Electric Co. propose to erect new workshops and make other improvements.-Tenders are being called by W. E. Doran, architect, for the reconstruction of the organ at St. Patrick's church. -Building permits have been granted as follows: A. Collin, two 2 story brick tenement buildings on Breboeuf st., cost \$1,600; alterations to store, cor. German and Vitre sts.; L. R. Baridon, brick store, and vitre sts.; L. K. Bandon, brick store, cor. St. Denis and Rachael sts., cost \$1,675: P. J. Murray, two story brick tenement building, cor. Shaw and Kent sts., cost \$1,200: Thos. Styles, three story brick tenement building on Conway st., fost \$3,000.

TORONTO, ONT.-Mr. Geo. W. Gouinlock, architect, has just completed plans and will receive tenders for a brick residence to be built on lot 3, con. 1, East York Township for Mr. A. H. Dewdney. -The H. P. Davies Co. are said to be considering the crection of a factory for the manufacture of heyeles. - Parker & Co. 388 Spadina ave, want tenders for erecting a workshop The Universal Knitting Co. have applied to the City Council for a site on which to erect a new factory. The new building proposed to be erected by the Metallic Roofing Co will cost upwards of \$10,000. Tenders will be invited by the High School Board for new seem pipes at Harberd steet Collegiate Institute.—A movement has been started to build a bicycle track and club house in the west end of the city. A committee from the Inter-Club Association, which is composed of representatives from the different clubs, has the matter in hands, and will report on the most suitable available location. -R. A. Smith, Secretary Toronto Ferry Co., invites tenders until Monday next, the 10th inst., for moving back the Hotel Hanlan on Toronto Island and for the erection of a new foundation for the same. Plans and particulars may be obtained om A. R. Denison, architect, 20 King st. west.

OTTAWA, ONT. - The Waterworks Committee has decided to purchase a number of hydrants .- Tenders are invited by A. Benoit, Secretary Militia Department, until Tuesday, the 18th inst., for the ejection of monuments at Chateauguay. Que., and Lundy's Lane, Ont. Plans may be seen at the above department, in this city, and at the office of the Deputy Adjutant General in Montreal and Toronto.—A petition is being circulated asking for the paving of Sparks street with rock asphalt. It is proposed to have the work done next summer. – At a recent meeting of the Pontiac and Pacific Junction Railway Company, it was de-cided to make Black river the terminus of the road for the present. To extend the line to Pembroke, as proposed, would require the construction of two bridges over the Ottawa river at Allumette Island, at a cost of \$200,000, which amount the company were not prepared to expend at present.—The C. P. R. authorities have proposed a new agreement regarding the construction of the Montreal and Ottawa Railway. They will bind themselves to construct and operate the road as far west as Alfred village during 1895, to expend \$50,000 on construction work westward from Alfred, in addition to the \$100,000 which they have in the Dominion Government's agreement bound themselves to expend during the year 1896. The agreement has been signed by Vice-President Shaughnessy and forwarded for the approval of the Ontario Government.—At a meeting of the City Council held on Monday last, it was resolved to call for tenders for all kinds of asphalt pavements, tenders to be received until January 30th next.

FIRES.

Two frame dwellings at Kingston, Ont., owned by Mrs. Miller, were burned last week They were insured for \$800.— Trueman Bros.' large saw mill at I rumanville, N. S., was destroyed by fire on Friday of last week. The mill was comparatively new and was valued at \$2,000.

—Fire at Colborne, Ont., on the 30th

ultimo, destroyed the following buildings T. H. Peterson's block, insurance, \$1,200; Thos. Brown's block, insurance, \$4,000; Yeaman's buildings, including dwelling, partially insured; Burleigh's livery stables, insured, and Simmon's block, insured for -The store of Joseph Bernardin, at Buckingham, Que., was totally destroyed by fire last week. The loss is estimated at \$20,000.- The shingle mill of Cowan & McGinty, at Marble Cove, near St. John, N. B., was consumed by fire a few days ago. The mill was valued at \$14,000 and was insured for \$4,000.—The Union hotel at Cookstown, Ont., was burned on Tuesat Cookstown, Ont., was burned on Adod day last. The building was owned by Mrs. Stephen Clement, of Brandon, Man., and was valued at \$2,500; insurance, \$1,500. James Tierney's outbuildings \$1,500. James Tierney's outbuildings and James Davidson's residence at Fallowfield, near Ottawa, were burned a few days ago. Loss, \$10,000.

CONTRACTS AWARDED.

OTIANA, ONL. - The contract for a new daily building at Rideau Hall has been awarded to High Gilmour. The cost will be about \$2.000

VIRIAN, MAN. - The contract for erecting the new town buildings has been let to J. C. Saul and Geo. Marshall. The contract price is \$4,125.

MONTE BLLIO, QUL. - The contract for electing a new R. C. church has been let to Mr. Fauteux. Work will be commenced in the spring, and the cost will be about \$20,00 .

HAMILTON, ONT.—The Philadelphia Engineering Company have awarded the contract for brickwork in connection with the smelting works to Ald. Wm. Hancock. About 250,000 brick will be required.

TORONTO, ON .- The Metallic Roofing Co., of this city, have supplied 40,000 square feet of the "Owl" brand galvanized corrugated iron for the new works of the Sydenham Glass Co., Wallaceburg, Ont., also a large quantity of their roofing for the new mill of the St. Anthony Lumber Co., at Murchison.

MONTREAL, QUL.-W. E. Doran, architect, has awarded the contract for the new interior wood work of St. Patrick's church to l'aquette & Godbout, of St. Hyacinthe, Que.-W. McLea Wal bank, architect, has awarded contracts for alterations to residence on Sherbrooke st., for S. Davis as follows: masonry, Wighton & Morrison; carpenter and joiners' work, Wm. Swan; roofing, Jos. Thibault; plastering, Decary, Beaudoin & Beaudoin. Also for the painting and glazing of a summer residence for E. K. Greene, at Dorval, Que., to G. S. Kimber. A. C. Hutchison, architect, has awarded contracts for a fire station at Cote Ste. Antoine as follows masonry and brickwork, Geo. Morrison & Co.; carpenter and joiners' work, roofing, plumbing, painting and iron work, John Morrison.

NEW COMPANIES.

OTTAWA, ONT.—Ottawa Porcelain & Carbon Co., seeking incorporation; capital \$100,000; applicants, J. W. McRae, Thos. Ahearn, Thos. Birkett and others.

PRESCOTT, ONT .- Prescott Electric Co., seeking incorporation, capital \$250,000, applicants, J. W. McRae and Wm. Scott, of Ottawa, N. Willard, of Prescott,

TORONTO, ON1.-Mica Boiler Covermg Co., applying for incorporation; capital \$50,000; applicants, Horace Thorn, A. D. Benjamin, John Foy, Nicol Kingsmill and others.

SHERBROOKE, QUE. - Royal Paper Mill Co., applying for incorporation; capital \$400,000; to manufacture pulp paper and lumber; applicants, W. B. Ives, F. P. Buck and others.

PERTH, ONT .- Facer Hammered Solid Steel Car & Locomotive Wheel Co., applying for incorporation; capital \$150,000; to manufacture steel wheels. A. T. Wilson, of this town, is one of the promoters.

MONTREAL, QUE.—Dominion Rubber Reclaiming Co., incorporated; capital

\$100,000; charter members, Wm. Clendinneng, Wm. Currie, W. T. Costigan and W. D. Lighthall, of Montreal, and Francois Dagenais, of St. Henri.

ST. JOHN, N. B.—Portland Rolling Mills Co., Ltd., seeking incorporation; capital \$200,000; incorporators, J. C. Robertson, J. Mowat, C. A. Palmer and T. Miller, of St. John, and J. D. Chipman, of St. Stephen.

BUSINESS NOTES.

Chas. G. Brodeur, plumber, Montreal, has assigned.

Bowes & Lahey, pair ers, Dartmouth, N. S., have dissolved μ .rtnership.

D. Quesnel, of Que nel, Sharpe & Co., paints, glass, etc., Montreal, is dead.

Froud & McGregor, contracting carpenters, Peterboro', Ont., have assigned to W. J. Morrow.

The estate of E. Chauteloup, brass founder, Montreal, has been purchased by James E. King and David Yuille.

The creditors and shareholders of the Hamilton Bridge Company have decided to close down the works and to sell the property in one block by tender. Scott was appointed permanent liquidator.

REPAIRING A FAMOUS STEEPLE.

The famous steeple of the Old South Church, in Boston, is being repaired, says a recent issue of one of our Eastern contemporaries. The man who is doing the job has worked at the business 17 years, and has climbed most of the tall steeples in the country, and has even worked at a dizzy altitude on Bunker Hill Monument. One of his greatest feats was the repuring of the chimney at the Charleston Navy Yard, which is 247 feet high. He mounted it on 30-foot ladders, each ladder being secured and hauled up by himself. The Old South steeple on which he is now at work is 165 feet in height. It is cracked in places and the vane moves only in a strong wind. The vane will be taken off its iron spindle, lowered to the ground and When it is set up again the spindle will be greased with a piece of beef fat, which is expected to do its work for six years, or until 1900, when somebody will have to climb up and lubricate it

MUNIGIPAL DEPARTMENT.

THE MANUFACTURE AND USE OF PAVING BRICK.

In this country, says Mr. Daniel W. Mead, in the Brickmaker, the climate in which the majority of paving brick is used is so severe that the disintegrating effects of frost are the most severe test a paving brick must stand, especially in streets of moderate traffic. Hence, one of the first requisites of such a brick must be that it will not absorb a large percentage of water. The premissible ratio of absorption cannot be definitely fixed at any given percentage, for it is found that this ratio varies with different classes of brick. One class of brick, which seems to be uniformly made from clays which approach near to fire clays in character, will admit 1 or 5 per cent, of water and still not crumble through the action of frost; while others, if not burned hard enough to render them impervious to more than 21 or 3 per cent., will be rapidly disintegrated by the frost. A core or lamination affords a seam where the frost may enter and is inadmissible in paving brick. Fire cracks should be limited in number and extent. The presence of time in itself is not detirmental in lim.ted quantities, yet this must not exist as lime pebbles or it will render the product entirely unfit for use by disintegrating and crumbling it.

The speciic gravity of a brick is somewhat of an index of its comparative value, as the more material contained in it, the greater its density, and other things being equal, the greater its resistance to abrasion, crushing, etc. A certain amount of toughness is desirable in a paving brick,

to prevent spantering and breaking under traffic. This quality, the writer believes is at present over estimated, as when laid in the street a brick can splinter only to a limited extent at the corners, after which the shape assumed is such as to greatly resist abrasion. The brick must be of sufficient factor of safety. Further than this, these qualities are of little material In making tests for relative qualivalue. ties of brick, nothing will take the place of experience. A few general suggestions, however, for making ready tests, such as are now in use, are offered with the hope that they may prove serviceable. The test for crushing strength is believed by the writer to be of little or no value unless in the comparison of the value of high grade paving brick. The test is difficult of application, requiring expensive machinery, and unless carefully made by skilful observers, under definite given conditions, the results are very uncertain and unreliable.

The transverse strength can be determined with greater accuracy than the crushing strength, it also represents both the compressive and tensile strength of the material, and is, therefore, a better test of the qualities of the brick. In testing for tatio of absorption the brick should be placed in a drying oven and kept at a temperature of 212 F. for ten hours or more if they have previously been saturated. They should then be weighed, and after the weight is carefully determined, placed in a vessel of water and kept for 24 hours at a temperature of about 60° F., after which they should be taken out, the surface water carefully removed and again carefully weighed. The gain in weight divided by the original weight will give the ratio of absorption. The presence of caustic lime is easily told by immersing the brick from one to tour days in water. If caustic lime is present it will make its appearance by breaking or cracking the brick, or by "poppers" showing on the surface. The specific gravity can be readily determined. The test for toughness or abrasive strength is usually made in an ordinary foundry tumbler.

The brick should be tested a few at a

time, with about 100 pounds of "foundry shot," weighing not more than ¼ pound to the piece. Heavy pieces of iron should not be used in the test, as they break the brick to pieces instead of wearing it. The different shapes of the brick are apt to make a material difference in their wearing during the first half hour. This is caused by some brick being manufactured with round edges and some with square edges; the latter, being more easily broken or abraded, cause a great loss in the material so made. For this reason they should be weighed after the first half hour, and the results for the second or third half hour to be used in comparison.

(To be Continued.)

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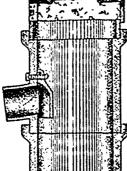
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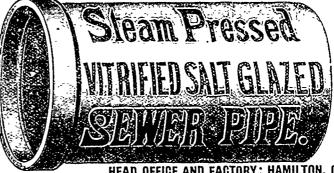
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CONDITION OF THE MARKET.

CONDITION OF THE MARKET.

TORONTO: The improvement noted in the b rdware business has been maintained, and numerous orders are reported from the upper lakes, to be shapped by boats before the close of Navigation. Trade has fal'en off in plumber's supplies, window glass and paints and oils, Galvanized iron is moving freely, and prices are being well maintained at \$4.25 for 28 gauge. A few ton lot of lead pipe have changed hands during the past week, but in general the demand is only for small maintities. Cement quotations are unchanged

Montreal: The market for builders supplies remains quiet, and no renewed activity is booked for until the sprine. Small lines of hardware are moving freely, and to sreport a brighter feeling among the country deaters. The arrivals of cement at this port for the week ending November 23 were \$5.700 casks of English brands, which completes the importations for the present season of navigation. Business is quiet and no large sales are reported. Firebricks are reported in good demand at prices quoted below. Glass is steady. Galvanized iron, lead and iron pipe, and cut nails remain unchanged.

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LUMBER.

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	Pressed Brick, Per M:		Calcined plaster, per barrel.	. 155 170
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	Ga	lranized Ircn Workers.	

Grates and Tiles.

Holbrook&Mollington i Rice Lewis & Son....IV

Contractors' Plant and Machinery Rice Lewis & Son... IV

Cements.	Heating.
ner, Alex v	Gurney Foundry Co., xii
ie&Co, W.&F P xii	Gurney Foundry Co xii King & Son, Warden x Ormsby & Co., A. B I Pease Furnace Co xii
te of John Battleviii une Br s i	Peace Furnace Co xii
ris, E. D vi	Toronto Radiator Mfg
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ment Co v	Williams, A. R xii
es Hardware Co i	Lime.
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tractors.	Morris, E. D vi
Bros II	
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nner, Alex v ie &Co., W&F.P. xii illton and Toronto	Shingle Stains.
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uire Bros i	Muirhead, Andrew i
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es Hardware Co ii	terers.
es Hardware Co ii	Baker, J. D vi
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	Paints & Varnishes.
cctric and Gas	Harris Co., The E vi
Fixtures	Muirh ad, Andrew i
vell, James IV	Painters.
lectric Wiring	Gilmor & Casey v
ers & Doss IV	Paving.
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Elevators	Barytic Stone Co IV
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II	Hobbs Mfg. Co v
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Workers.	The Consolidated Plate
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Heating.	Roofers
renew Foundry Co., vii	Douglas Bros II
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mshy & Co., A. B., I	Hutson W D
	Hutson, W. D II Metallic Roofing Co., vii
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Co iii	Stewart, W. T 11
illiams, A. R xii	Williams & Co., H II
	Warren Chemical &
Lime.	Mfg. Co II
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	Grimson, G. & J. E iv
Plasterers	Hobbs Mfg. Co iv Horwood & Sons, H iv
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yac, j	McCausland & Son ii
Plumbing Supplies	Longhurs, Hiv
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Plumbers
Ballantyne, James.... ii

Reproduction of Drawings New Color Process Co. ix

Wall Paper and Ceiling Decorations Elliott & Son...... 1

WireManufacturers B. Greening Wire Co. xii Meadows. Geo. B. . . ii Shipway Mfg Co.... iv

Wall Plaster
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Wall Tie
Mac Machine Co.... ix

Window Blinds
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