

# THE AMERICAN ARCHITECT



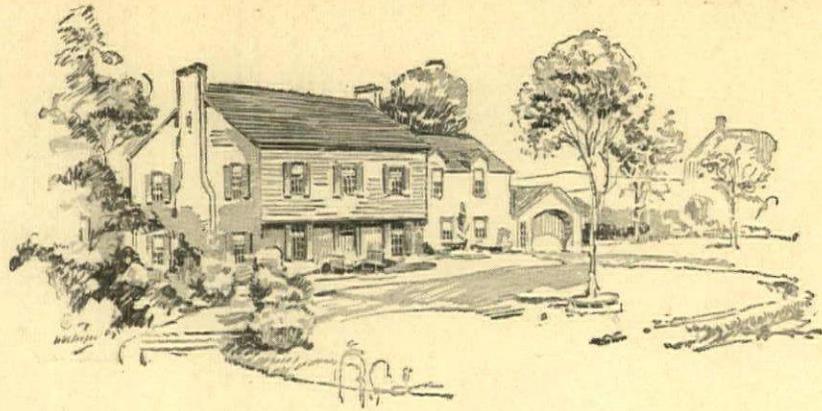
COLMAR—THE ALSATIAN ROUEN, SAMUEL CHAMBERLAIN

EDITORIAL COMMENT ~ ARCHITECTURAL ORNAMENT IN HAMMERED BRONZE ~  
THE NEW GENERAL MOTORS BUILDING, NEW YORK ~ DESCRIPTION AND ILLUSTRATION OF MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO  
~ TOPICAL ARCHITECTURE—IRON GATES ~ BUILDINGS OF MODERATE COST

IN TWO PARTS

JULY 20, 1927

PART ONE



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# THE AMERICAN ARCHITECT

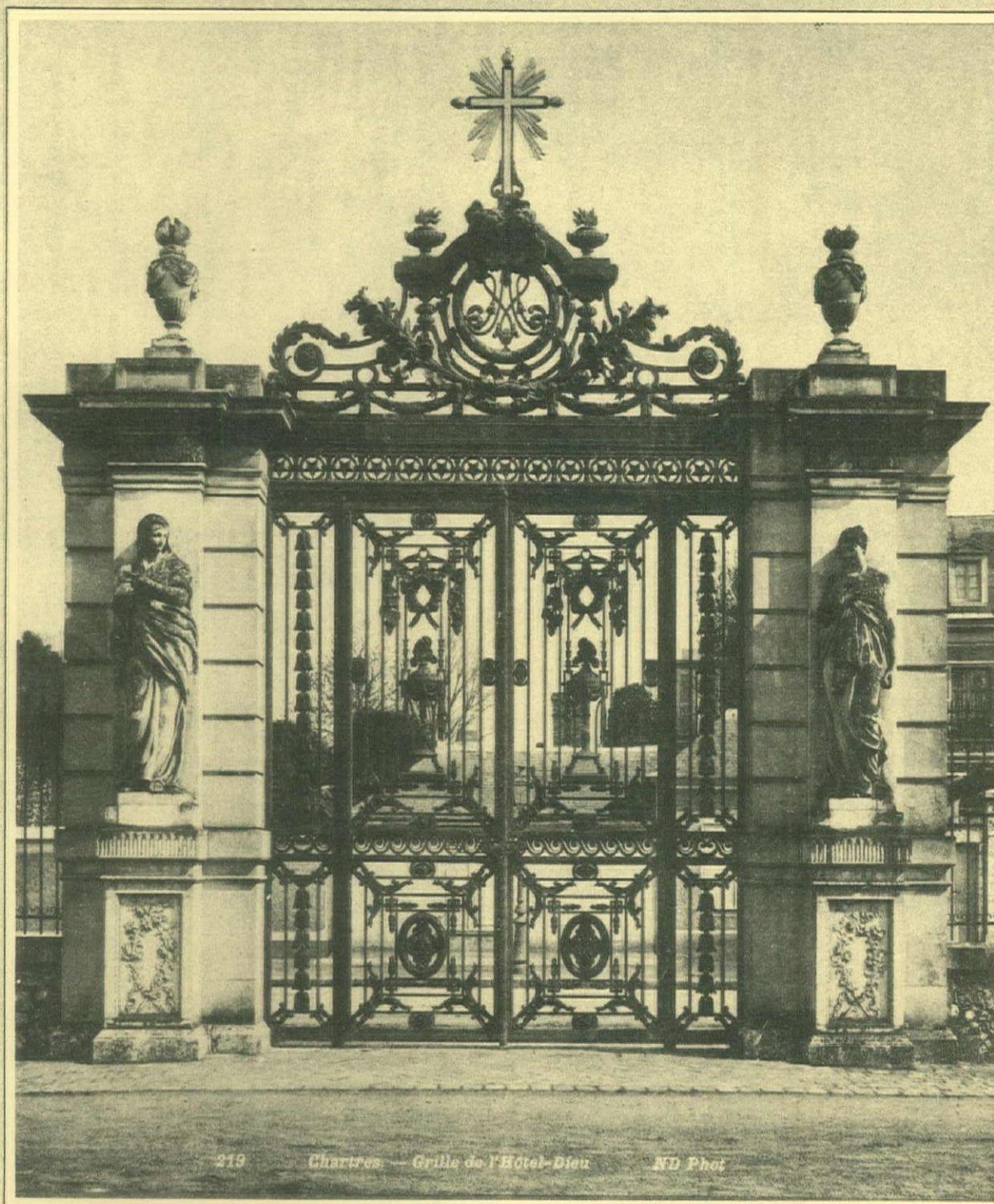
IN TWO PARTS

PART II

JULY 20, 1927

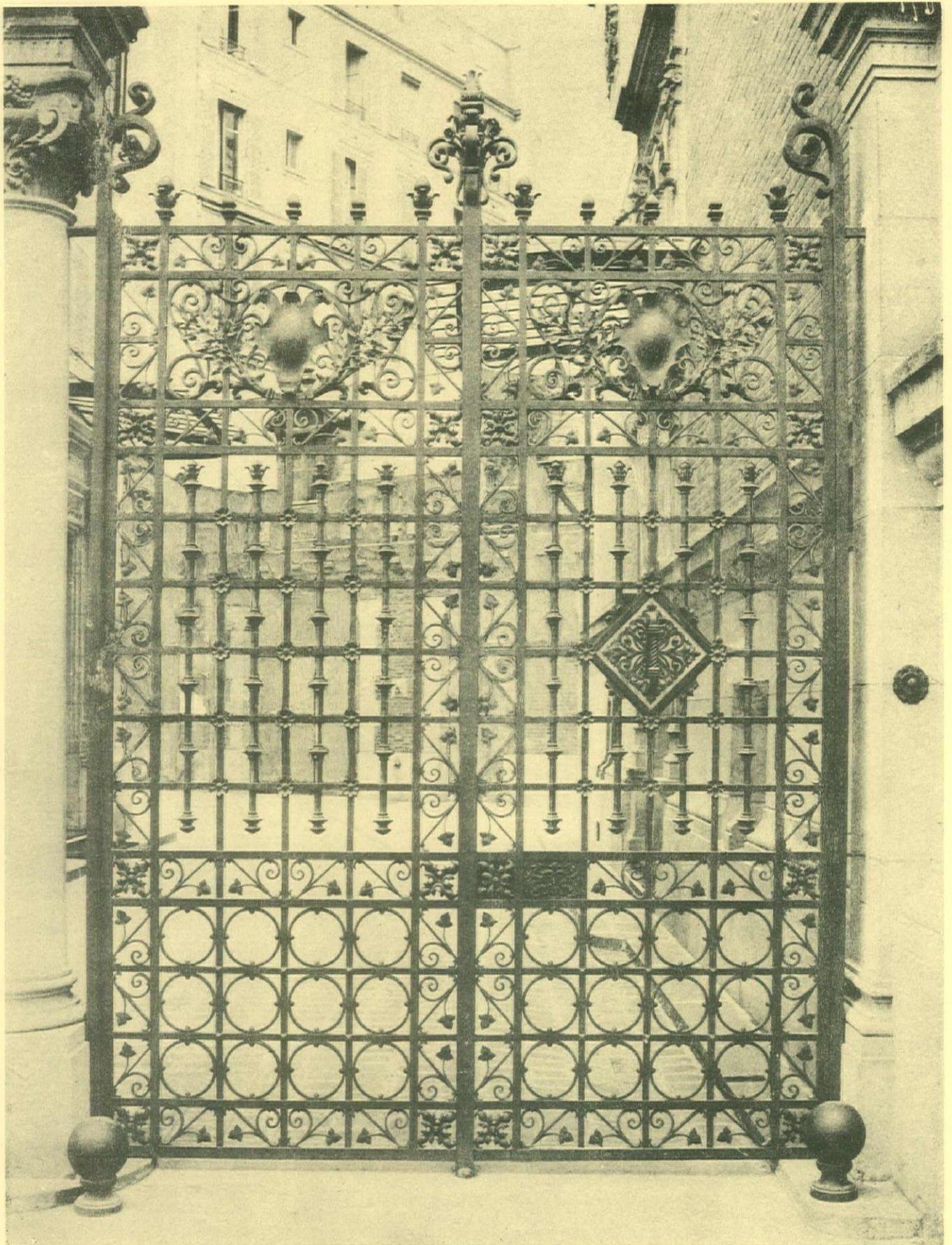
TOPICAL ARCHITECTURE SECTION

←—————→  
IRON GATES



219 Chartres — Grille de l'Hôtel-Dieu ND Phot

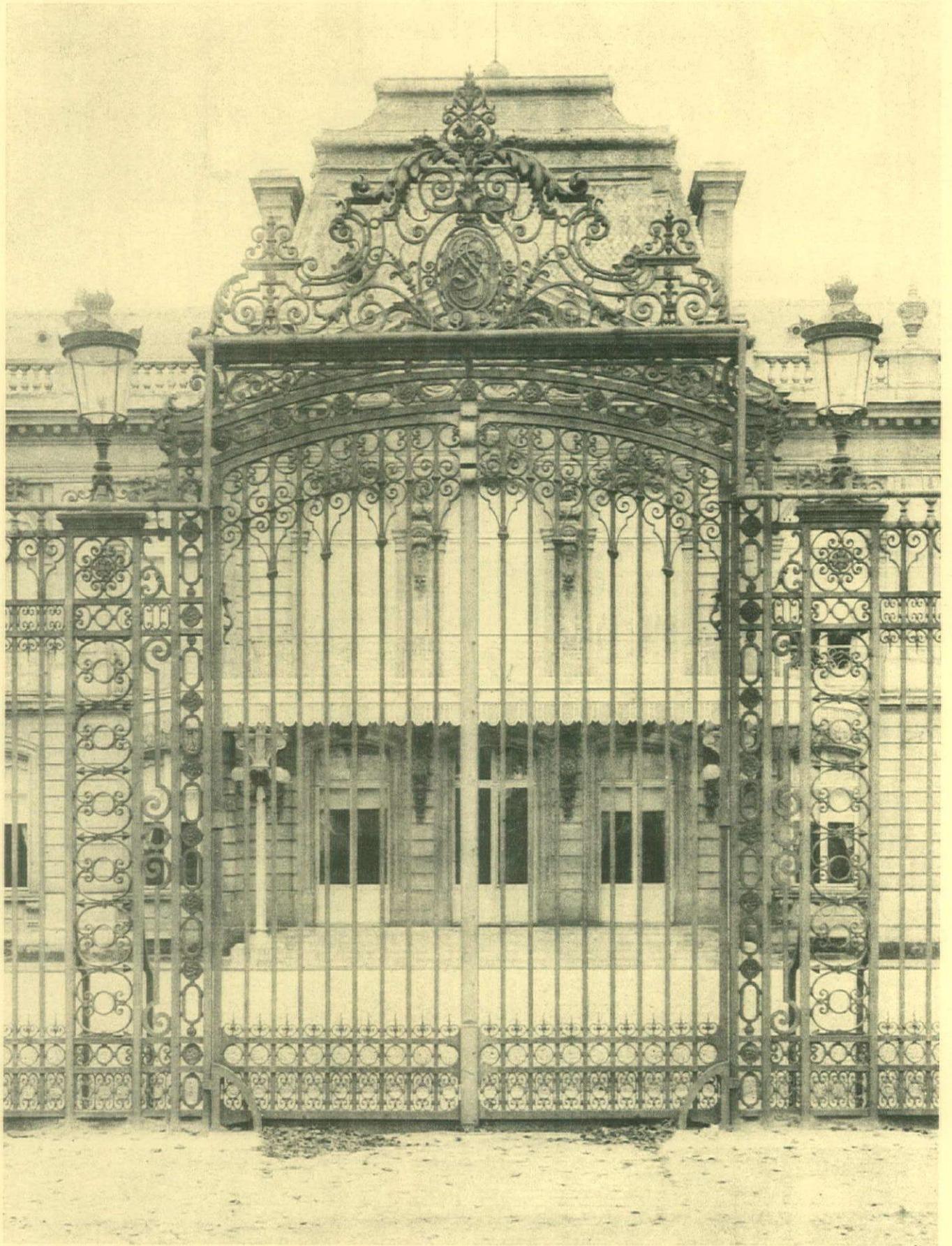
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FRENCH RENAISSANCE GATES



LOUIS XIV GATE, PARIS, FRANCE



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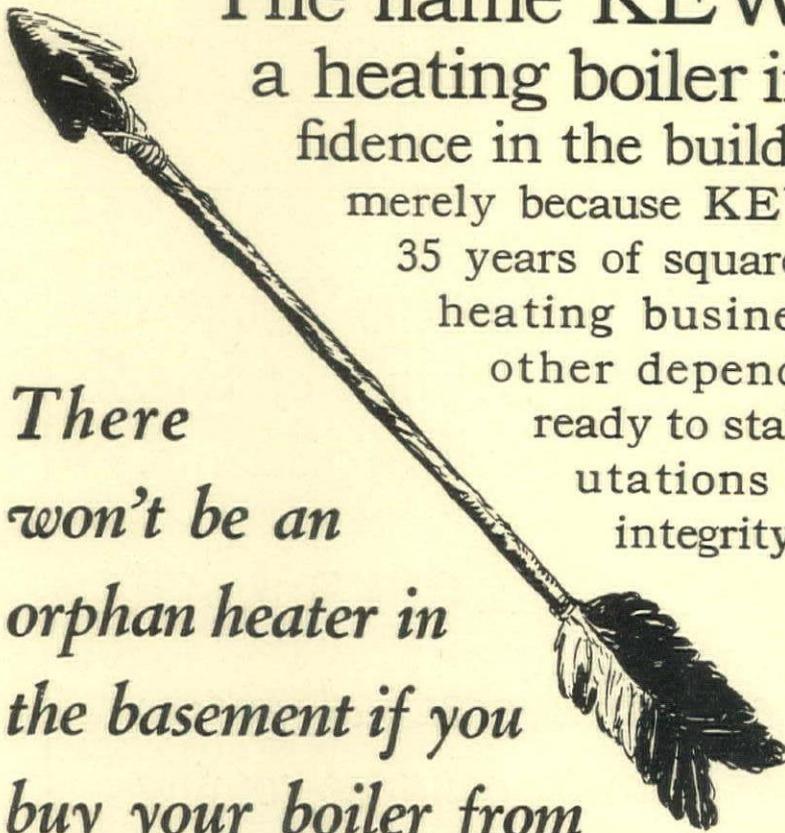
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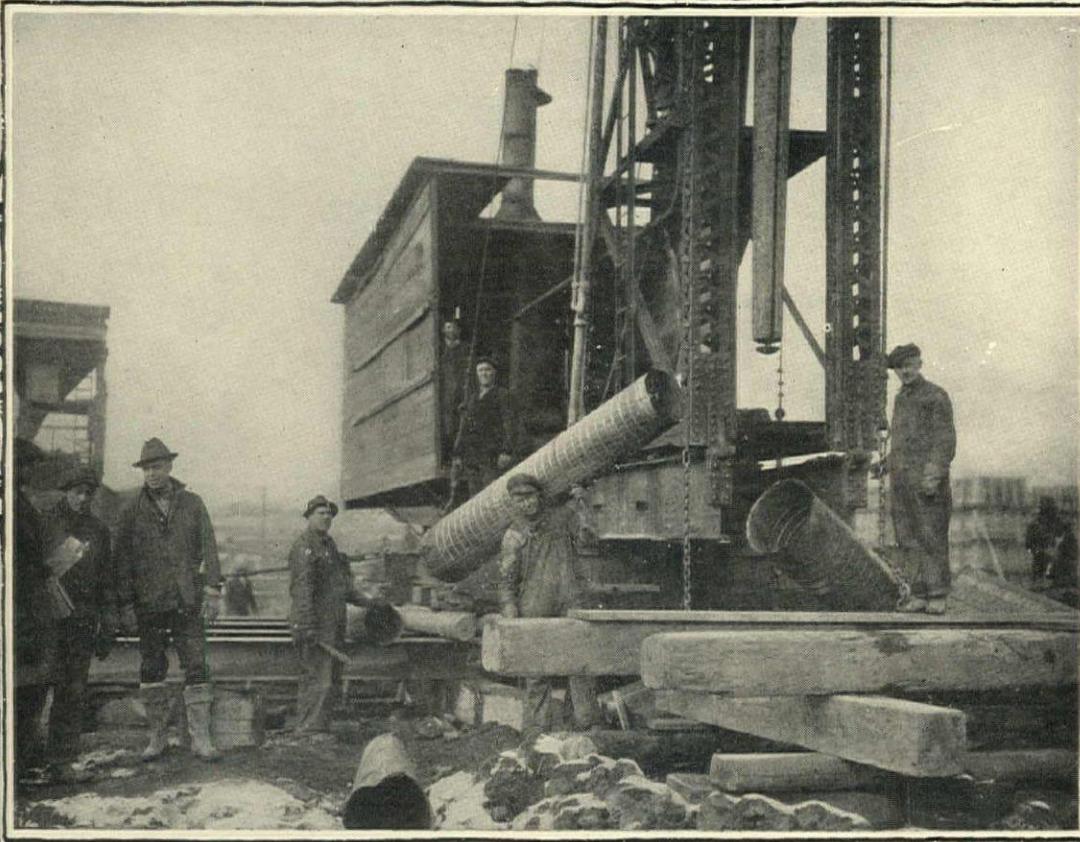


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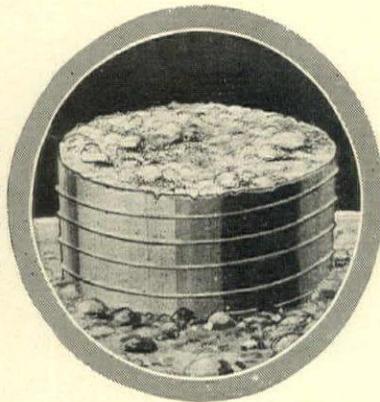
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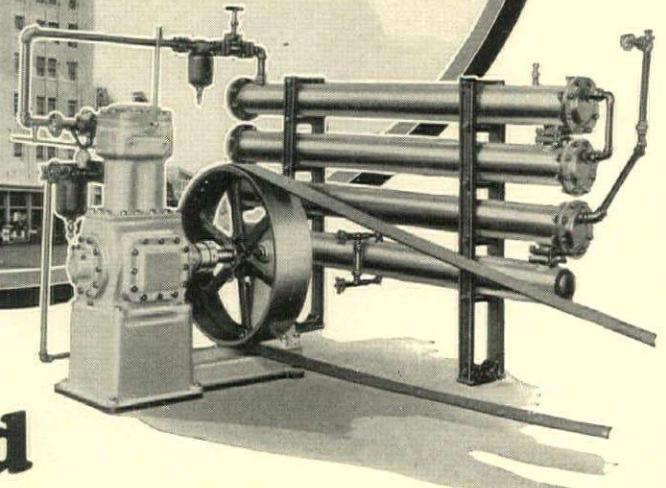
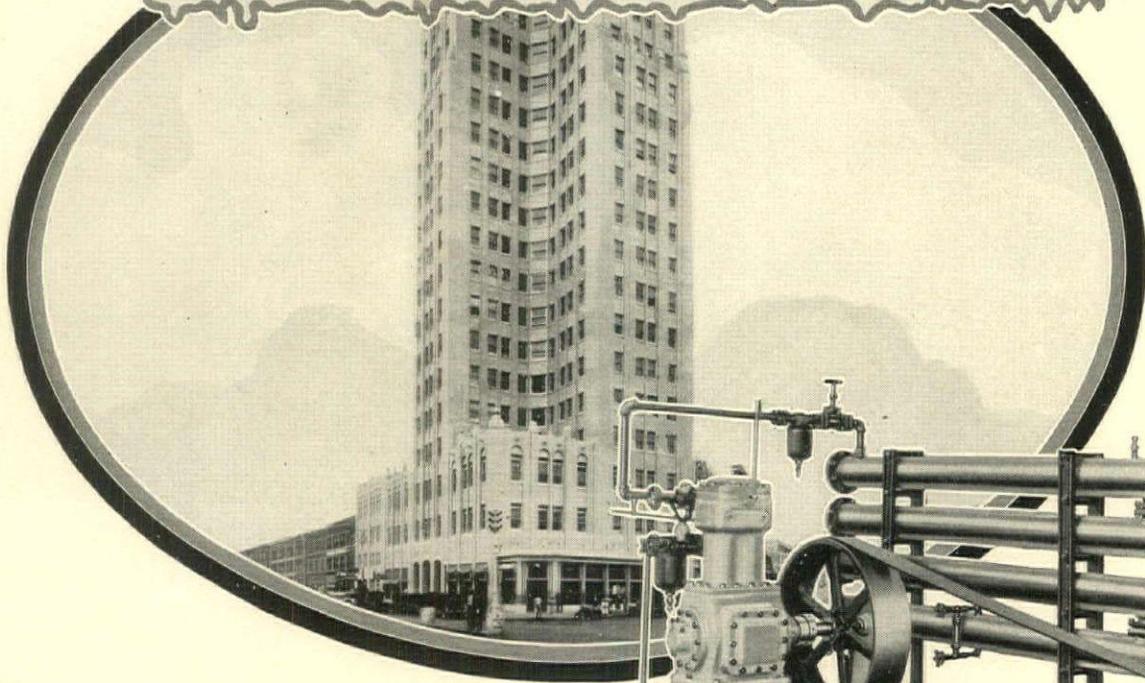
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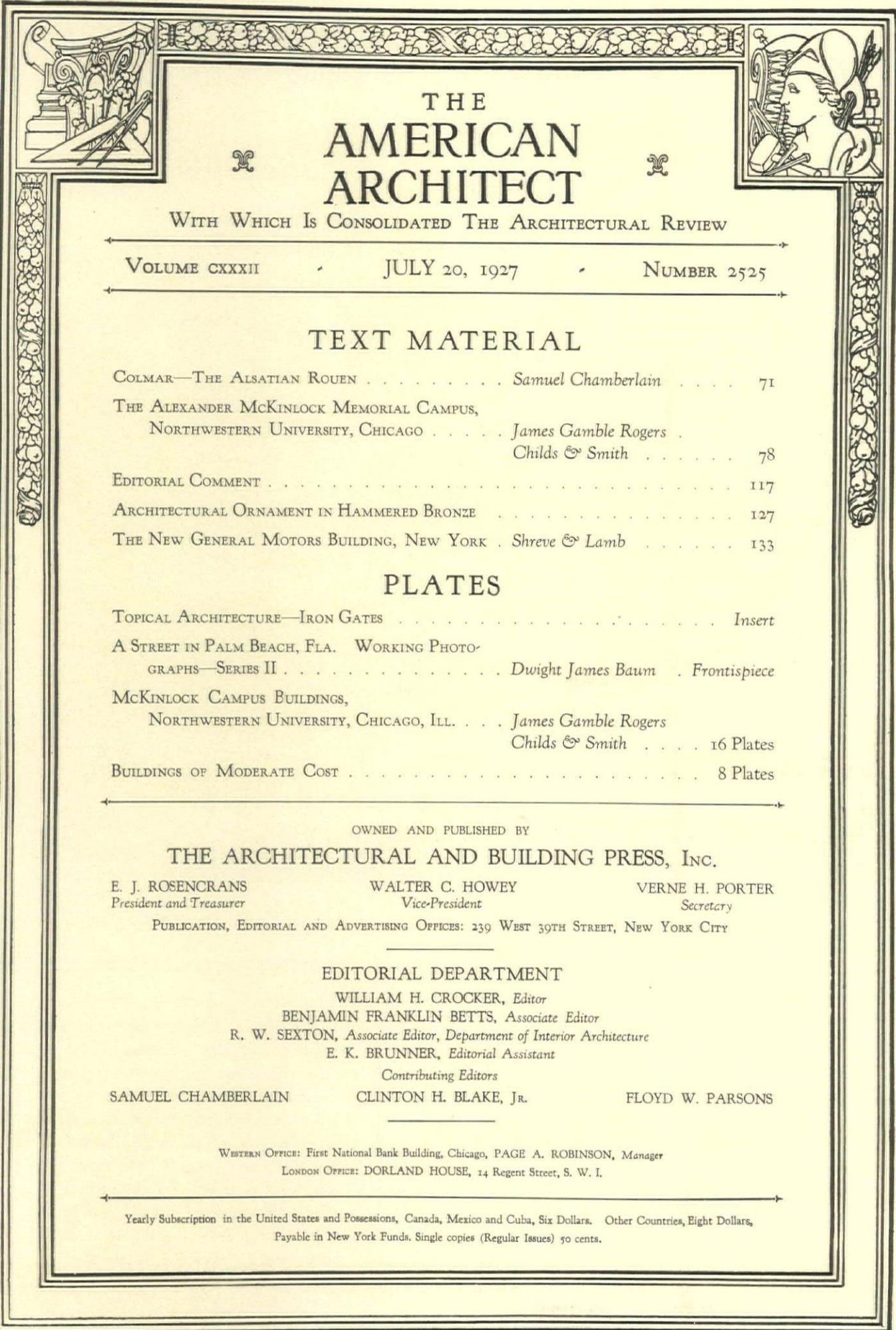
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# THE AMERICAN ARCHITECT

WITH WHICH IS CONSOLIDATED THE ARCHITECTURAL REVIEW

VOLUME CXXXII

JULY 20, 1927

NUMBER 2525

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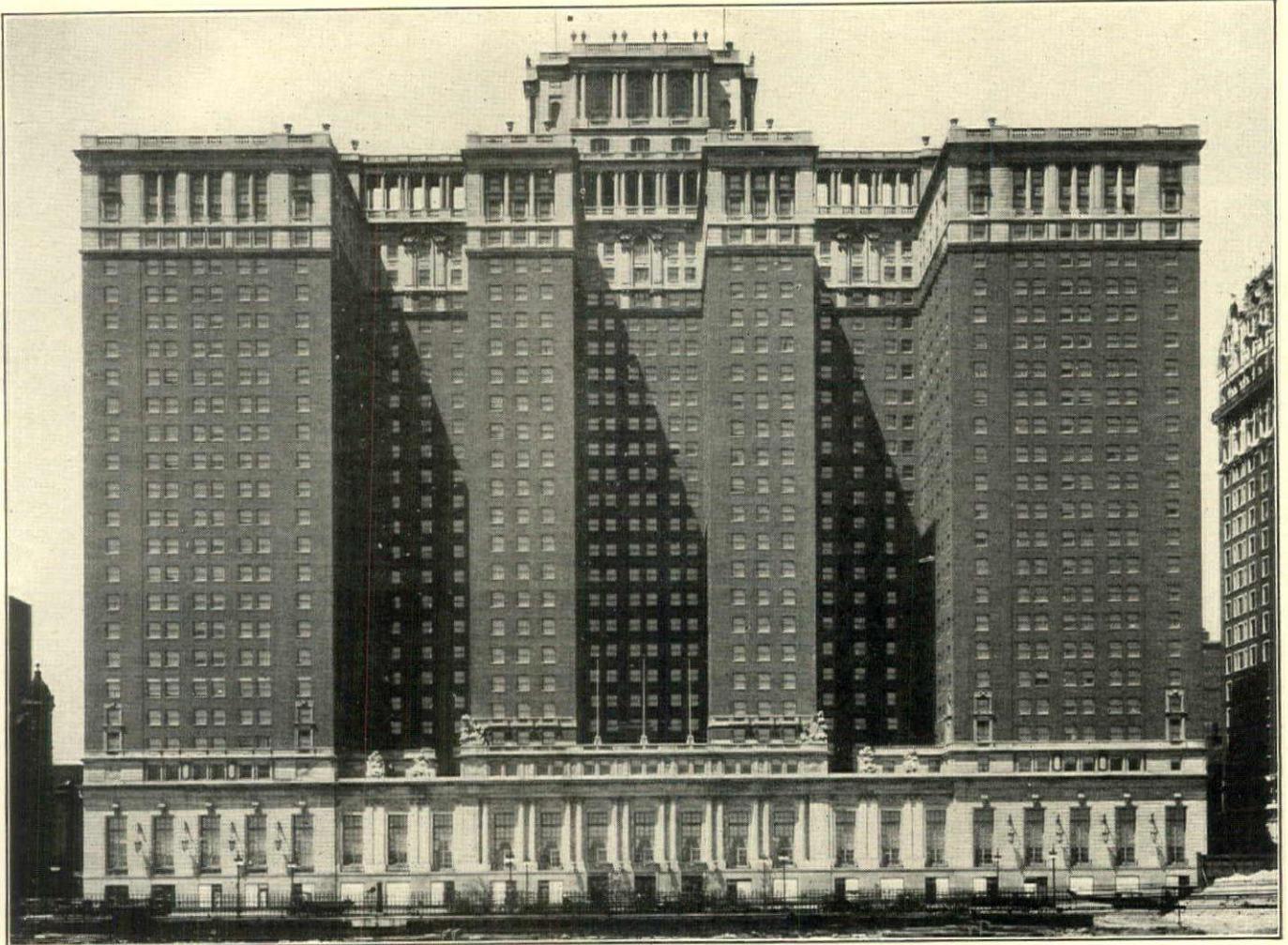
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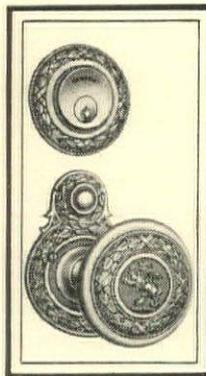


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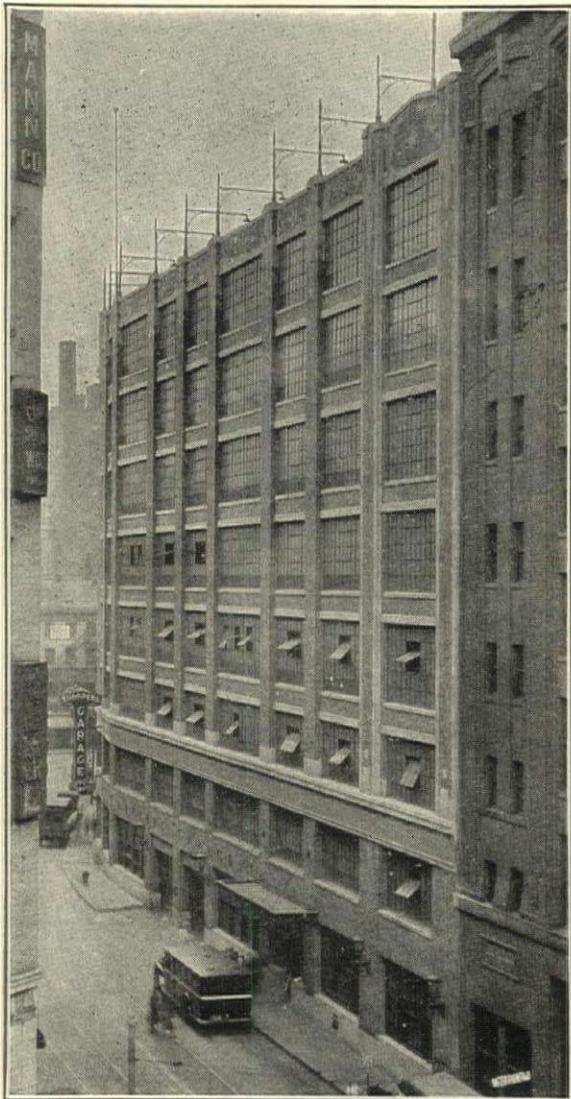
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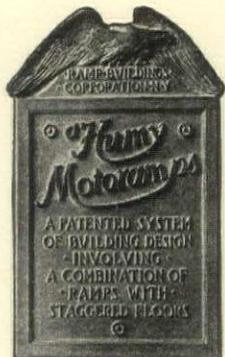
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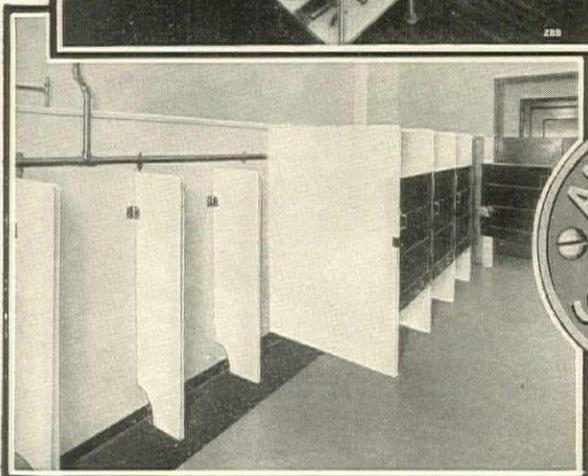
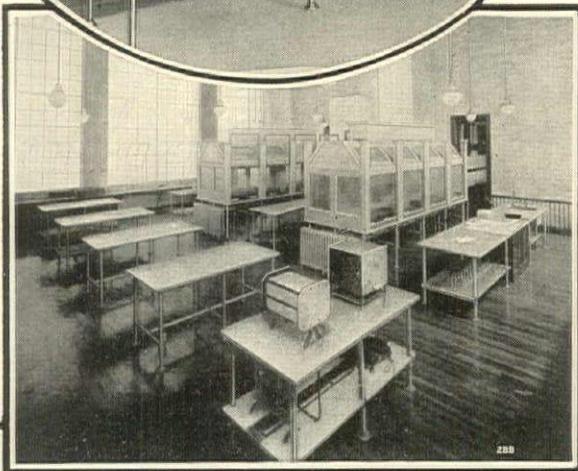
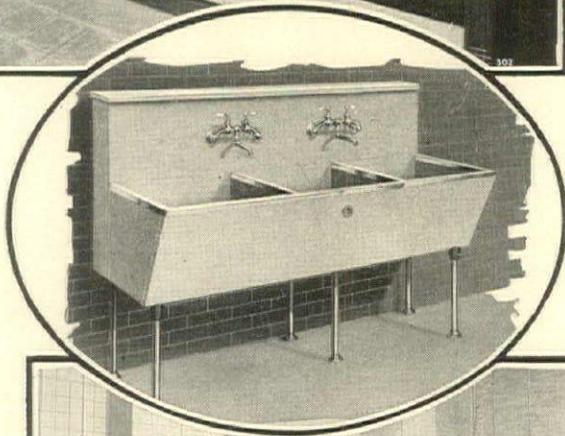
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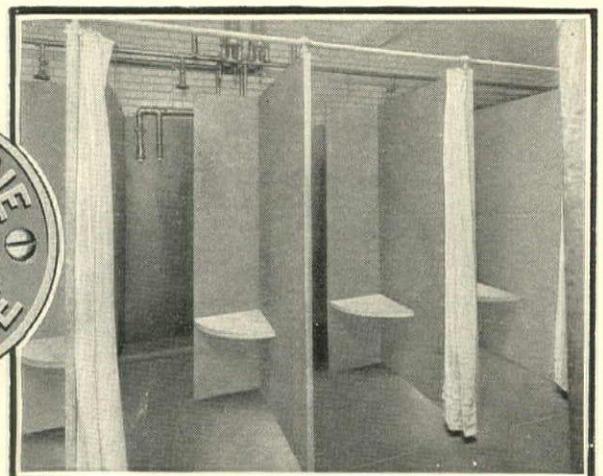
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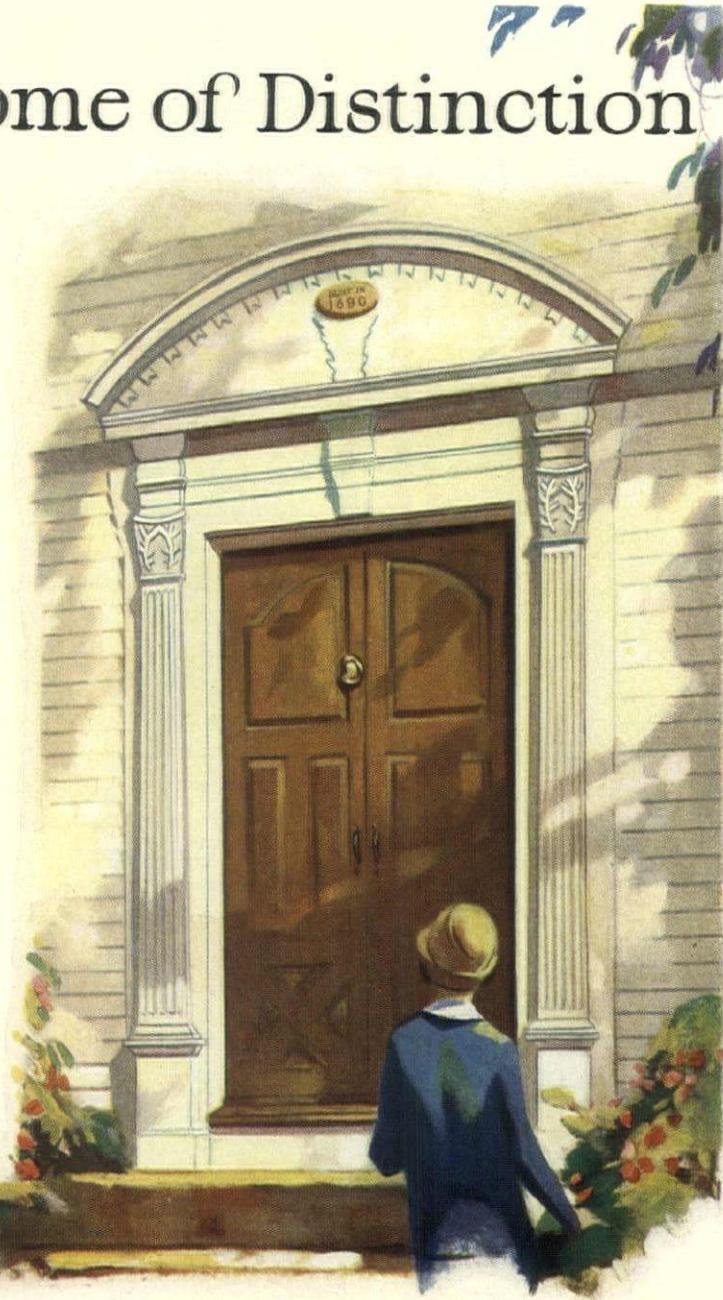
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## THE PUBLISHERS' PAGE

OUR versatile correspondent, Samuel Chamberlain, has journeyed to Alsace, and in his article presented in this issue, sets forth with pen and pencil and in his usually happy manner, his various impressions. Once upon a time we heard it said by a man, speaking to a large audience of children, that they should learn to "stand on their hind legs and look out of their eyes." This statement, greeted by a ripple of amusement by his audience, he insisted should be taken seriously. That man, while designated as a biped, was more often a quadruped in action. He gravelled on all fours and by too closely following the contour of the ground failed to look aloft where beauty was to be found. The power of observation is born in most of us, but seldom fully developed. When that power is cultivated to its fullest extent and coupled with it a perfect co-ordination of eye and hand, the result is that of the trained artists. Many men have travelled the highways and byways of Europe, but only those who "stand on their hind legs and look out of their eyes" can achieve the results set forth by Chamberlain.

30

The series of illustrations and accompanying article describing the McKinlock Campus Buildings at Northwestern University, Chicago, are interesting features of this issue. These buildings embody some of the most modern ideas in architectural design and are, in fact, a decided step forward in the development of scholastic buildings in this country.

30

Issue of August 5 will be largely devoted to school buildings. While in no sense a "special issue," the illustration of recent school buildings will dominate. Special issues that present the "last word" of their topic have certain merit, but when used as a vehicle to resurrect illustrations that are staled by constant repetition, are of doubtful value.

The feature of this issue will be an article by William B. Ittner, F.A.I.A., of St. Louis, Mo. Mr. Ittner has designed an unusual three building school group at Longview, Washington. The school policy of Longview favors centralization, or planning for a restricted number of complete schools rather than for a larger number of segregated buildings. This three building group represents a concentration of

educational facilities so that children in all grades may have largely increased educational opportunities. This group stands on a 39 acre site in the center of the city's residential district. The problem is a most unusual one and has been solved in a masterly manner by Mr. Ittner.

30

In a recent issue there appeared an article and illustrations setting forth the modern tendencies in theatre design in New York City. It is not the opinion of those who are competent to judge that the present tendency adds anything worth while in the development of the modern theatre.

In sharp contrast to what is taking place in the East is the newer style theatre now being erected in Germany. Arthur Woltersdorf, F.A.I.A., of Chicago, has lately been to Germany, and while there, made an intensive study of the newer theatres. His reactions are set forth in a more than usually interesting article to appear in our issue of August 20. The accompanying illustrations will be very valuable to the subscribers of *THE AMERICAN ARCHITECT*. Personally selected by Mr. Woltersdorf after consultation with various architects, they present a wealth of good suggestive material,—particularly the various floor plans which have been carefully poched in the offices of the architects in Germany, especially for this issue.

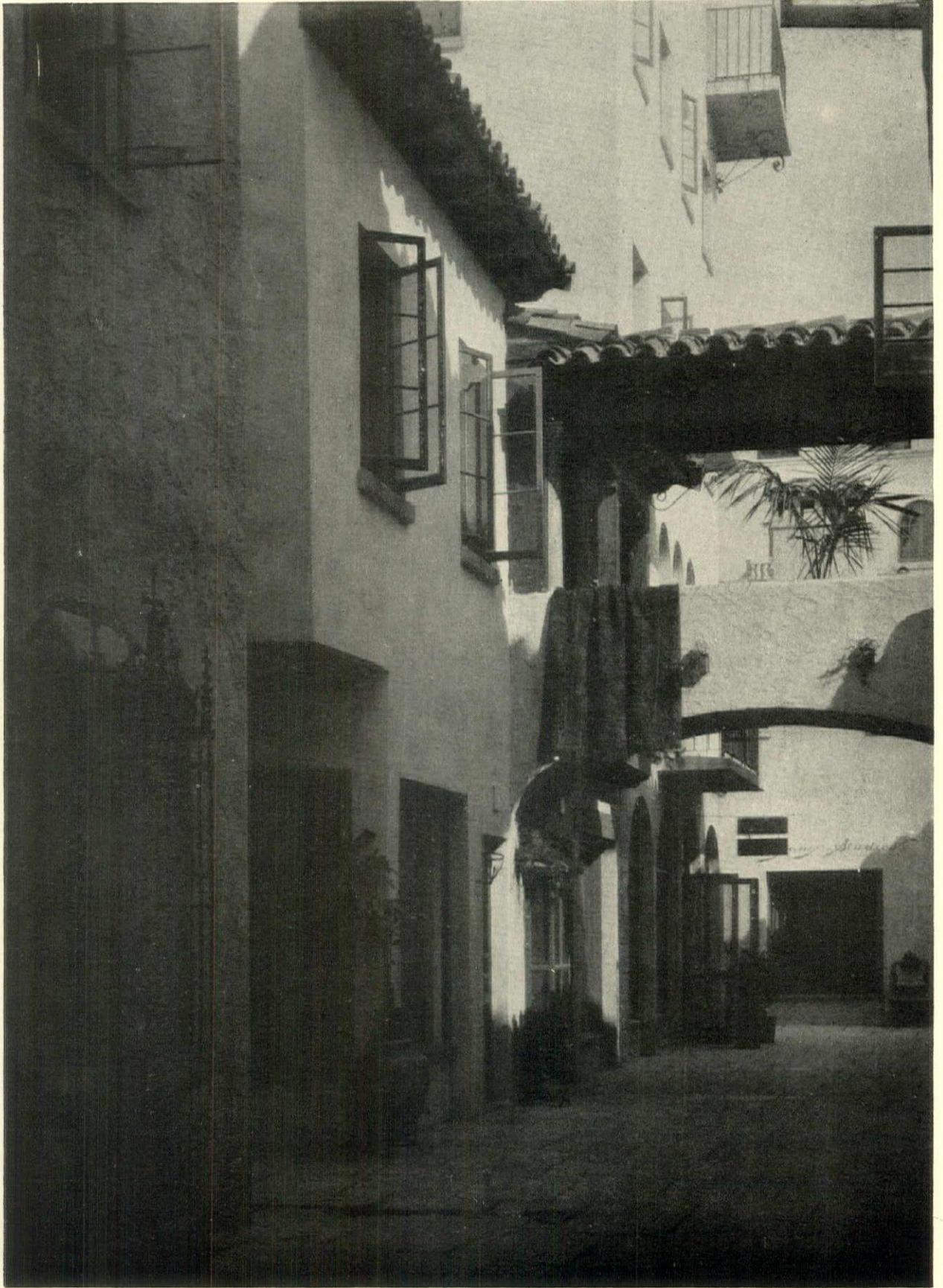
A further feature of this issue of August 20 will be a Chinese theatre at Hollywood, California. This is a most unusual structure and embodies with skill and restraint the many decorative features that are present in theatres in China.

30

The subscriber is asked to bear in mind that the insert, *Topical Architecture*, is a part of every issue. This valuable series will be continued indefinitely. When grouped together, they will present suggestive material that will be appreciated by every reader.

And while referring to recently added features, we want to say a word as to the constant feature, *Buildings of Moderate Cost*. We shall endeavor to make this of sound value, but we shall need the cooperation of the men in small communities to make it what it should be. Send us your small town work.





A STREET IN PALM BEACH, FLA.

WORKING PHOTOGRAPHS—SERIES II

FROM THE ORIGINAL NEGATIVE BY DWIGHT JAMES BAUM, ARCHITECT

THE  
**AMERICAN  
 ARCHITECT**

FOUNDED 1876

COLMAR—THE ALSATIAN ROUEN

By SAMUEL CHAMBERLAIN

*Illustrations by the Author*

THE essence of the true Alsace cannot be found more pleasantly expressed than in the sleepy town of Colmar, nonchalantly seated in the rich valley of the Rhine. Colmar, city of smoky taverns and coffee, cake and toy shops, of fantastic peaked roofs and spiny towers and storks' nests; the Colmar made famous by the sympathetic "Oncle Hansi,"

whose drawings and posters and books have endeared him and Alsace to all of France, especially to the children. Colmar has suffered little of the industrial fever which has seized its neighbors, Strasbourg and Mulhouse. This is, of course, fortunate from an artistic point of view, making Colmar far more intriguing to the travelling pencil pusher than



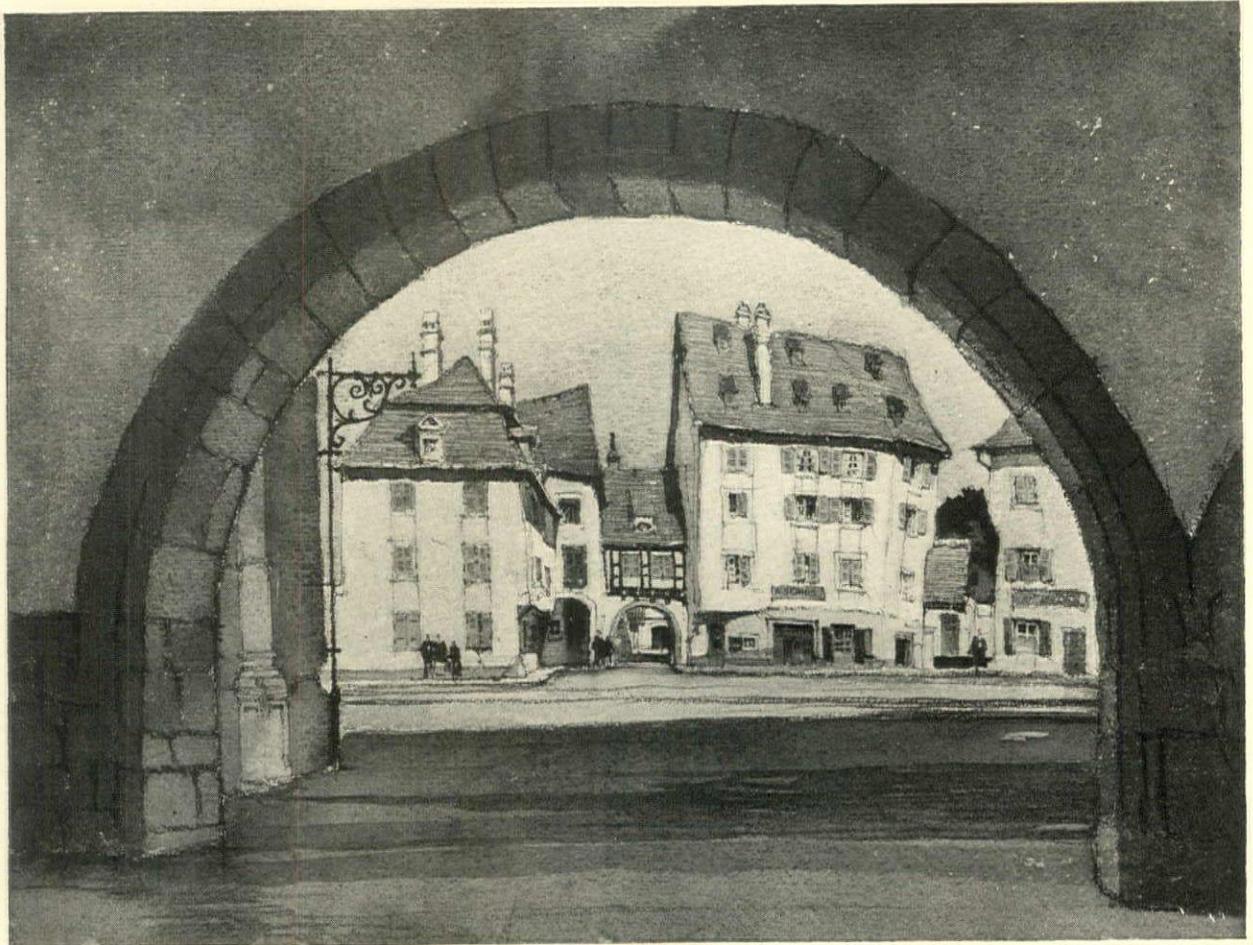
"LITTLE VENICE"—COLMAR

(Copyright, 1927, The Architectural & Building Press, Inc.)

to the travelling salesman. Provincial torpor has preserved its Old Town intact, saved its tortuous streets from being widened and its vast overhanging houses from being razed to make way for apartment buildings. Such are the blessings of commercial stagnation.

Colmar was a German city ten years ago, and its complexion has undergone little change. The skyline is jagged with warped German roof lines. There is a vast perpendicular department store, strongly reminiscent of Munich, which has been re-

Calves are noticeably plumper. The German love of music, of shaded parks, of beer and good groceries is evident everywhere. There are numerous beer gardens, stalking with bald and somewhat silly Doric columns. Excellent orchestras play soft Viennese waltzes while buxom lasses bring in the foaming bock in sizable scuttles, accompanied by gigantic pretzels. If you ask them, they will serve you that Alsatian chef d'oeuvre, "choucroute garnie," and how! A steaming mountain of glorified cabbage, saucily spiced, around which snuggle a

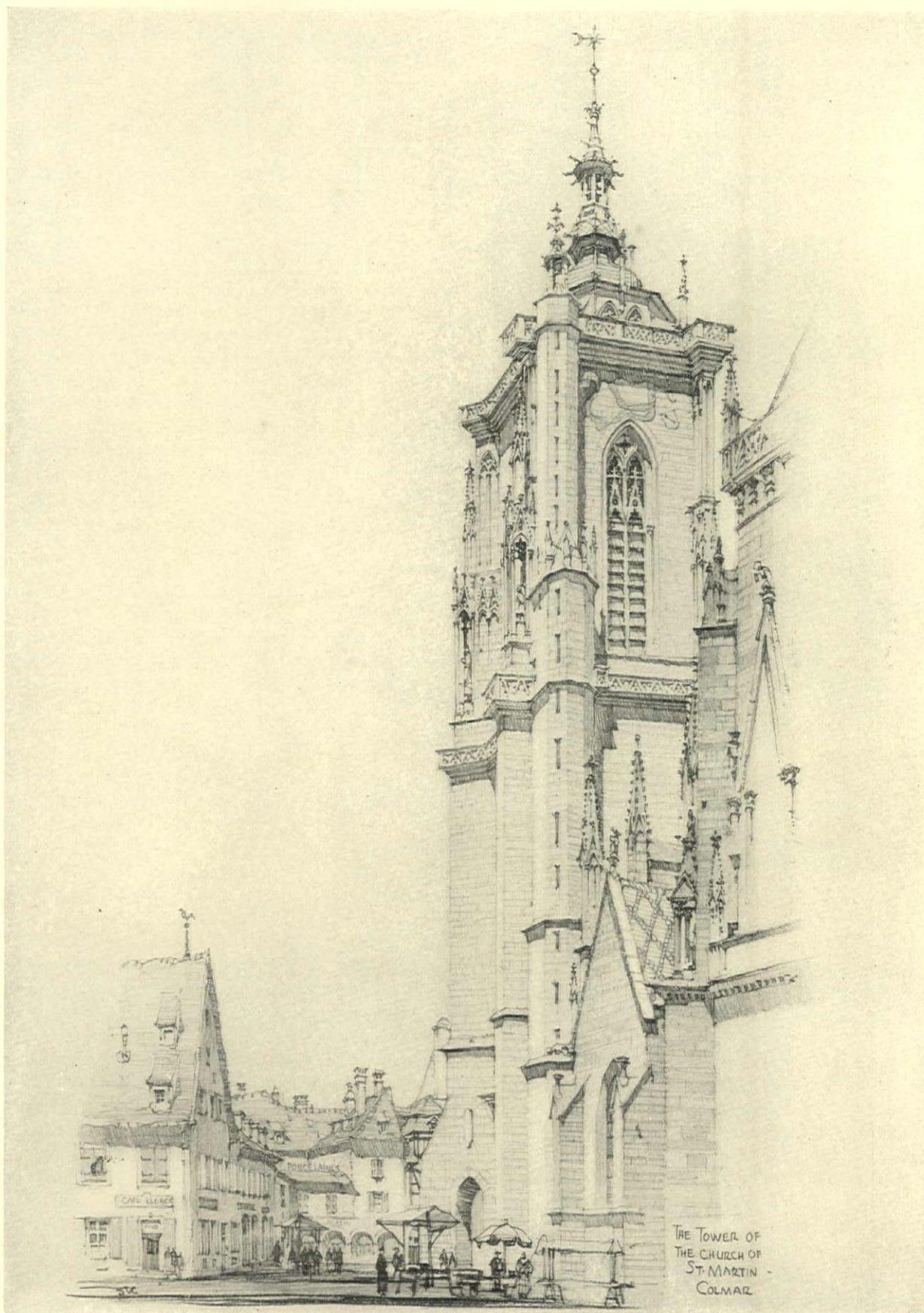


VISTA IN COLMAR

named "Aux Villes de France," and there are coldly archaeological bank buildings, built of stone the color of half-boiled calves liver, which are now emblazoned with the names of French banks. The policemen are uniformed as all good gendarmes should be, but they speak a hoarse Teutonic patois. All of the signs in the town have been repainted in French, but the names posted about are reassuring reminders of what one sees out of the train windows when passing through Milwaukee. The people are awkward and rosy cheeked, like wooden dolls. Paunches, guttural voices and bristling pompadours are fairly abundant. Gross silhouettes and shiny noses are found in place of feminine chic.

brood of unimaginably tender boiled potatoes, a shimmering slab of ham and two plump, juicy, tomato-red sausages! (After this outburst, I really expect to be approached by the agencies to write luscious-luscious advertisements for the ladies' magazines.)

If the Colmarians appear quite German as far as externals go, they are, in spirit and sympathy, extremely French. Colmar is the judicial capital of Alsace and the heart of a strongly patriotic movement. No city was happier to bring forth the Tricolors which had been hidden for forty-seven years in attics and cellars, and to fly them triumphantly from the window ledges on that unforgettable day

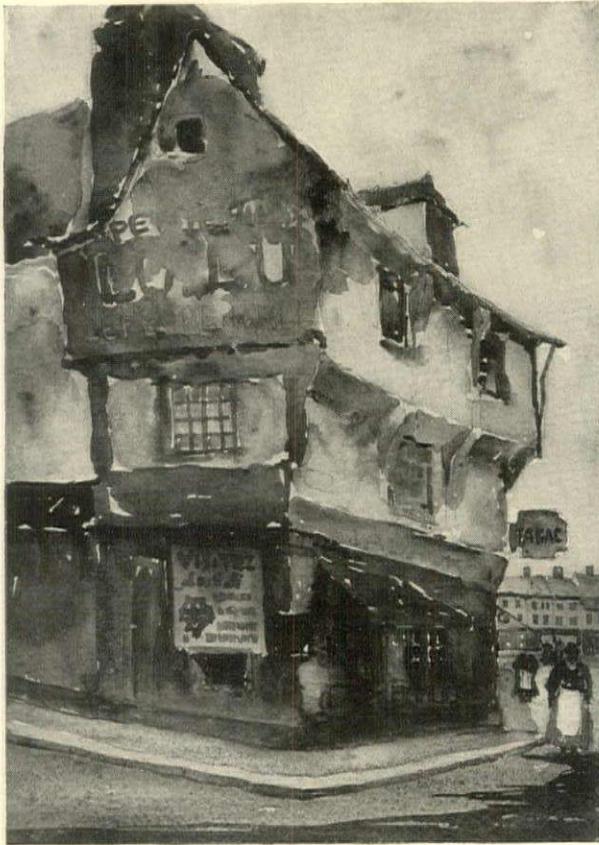


THE TOWER OF  
THE CHURCH OF  
ST. MARTIN -  
COLMAR

FROM THE ORIGINAL SKETCH BY SAMUEL CHAMBERLAIN

in November, 1918, when the Armistice was signed.

The architectural charm of Colmar lies in its haphazard and casual structure. There is none of the geometric in the town, none of the T-square and triangle, nothing that remotely resembles city planning. One house springs up with utter disregard of its neighbor, leading to a complexity of twisted walls and roofs which is rarely surpassed. An immense variety of old houses results from this



THE TOBACCO SHOP

architectural caprice, varying from grotesquely quaint, nursery-rhyme houses to statuesque Renaissance mansions. Of the latter, particular mention may be made of the "Maison des Tetes," which is now transformed into a musty inn. It is dizzy with ornament to the very peak of its pointed facade. Three grimacing heads protrude from every pilaster, whence its name. The doorway is exquisite, embellished with escutcheons and a grille in fanciful Alsatian pattern.

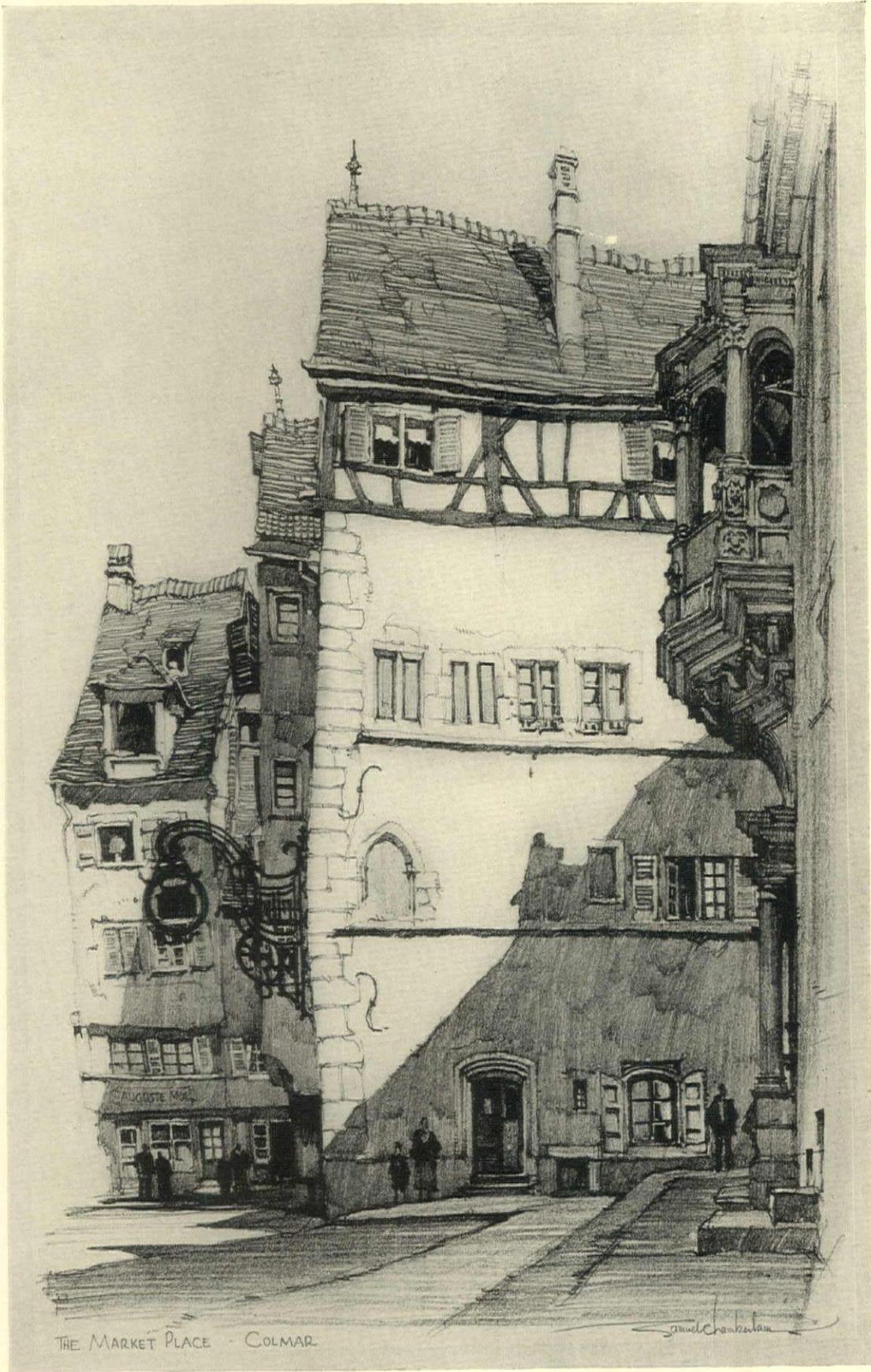
The half timber work of the region has a character quite its own, differing radically from that of Normandy. The horizontal, vertical and diagonal elements appear in about equal proportion, producing an effect more blatant than is ordinarily obtained with timbers.

The present Mairie, once the ancient Customs House, is an astounding old building, rambling about in an aimless manner, with no one facade

bearing any resemblance to any other. There is a large cloistered opening beneath it, supported by sturdy carved oak columns, furnishing refuge on rainy days for the town loiterers and also the vista for the wash drawing here reproduced. It glories in a clock tower, a sun dial, a handsome exterior staircase, wrought iron in abundance and many jeweled bits of sculpture and Gothic detail, among them the Austrian double eagle, which has weathered the stormy centuries with the patient Alsatian people. Add to these stray timbered towers, carved wood balconies, delicate Renaissance portals and ponderous Gothic ones with massive hinges, windows of leaded bottle glass and, topping it all, a giddy enamelled tile roof, set in a bright pattern of green, blue and white. All told, a delicious melange, a complete architectural *hors d'oeuvres variees*. The critics call it vulgar, (which it probably is), and in truth it does seem rather coarse beside the delicacy of the quaint little building which now serves as the Commissariat de Police. The flawless little balcony which adorns this facade, a glimpse of which is found in the lithograph of the market place, is a bijou of the Renaissance which can scarcely find a competitor in all Alsace. It was from this miniature loggia that the Magistrate of Colmar read proclamations to the assembled townspeople, and from here were announced the names of belligerent citizens who were due for a public flogging. What is said to be the oldest house in Colmar soars up next to it, ornamented with one of the shop signs for which Alsace is noted.

Colmar is proudest of its Museum, installed in the cool cloisters of a former Dominican convent. It is named after Schongauer, whose atelier was long in the town, but it possesses only a feeble representation of the master's work. However, it does contain the famous retable of Isenheim by Mathias Grunewald and Nicolas de Hagenau, which was rescued from the fury of the Revolution, and which has come to be considered the masterpiece of Rhenan art. The realism of certain of these Central European primitives is as amusing as it is sometimes sickening. All of the Madonnas are plump-faced and blonde, with bulging foreheads in true Teutonic fashion. We won't go into the unappetizing side just now.

The church of St. Martin, over whose authorship a rather acrimonious and puerile dispute has arisen between the French and German archaeologists, is well worth fighting over. One need not question the German source of the quaint old spire, nor of the Chinoiserie of its final cresting, yet the lines and Gothic detail of the church as a whole could hardly be more purely French. The dispute arises over the nationality of the architect, Le Maitre Humbret. The rival critics become quite warm under the collar in claiming the illustrious master, with honors about even.



FROM THE ORIGINAL LITHOGRAPH BY SAMUEL CHAMBERLAIN

The color of the stone of St. Martin, which the present pencil sketch must fail dismally to convey, is unique among the churches of France. Quarries in the region of Colmar yield stone of a great variety of colors, ranging through an entire grayed spectrum, and the builders of St. Martin seem to have omitted none of them in weaving a pattern of soft and symphonic colors. To do the stonework of this church justice, one needs a palette cooler, but quite as varied as that needed to make a color cartoon of the stained glass of Chartres.

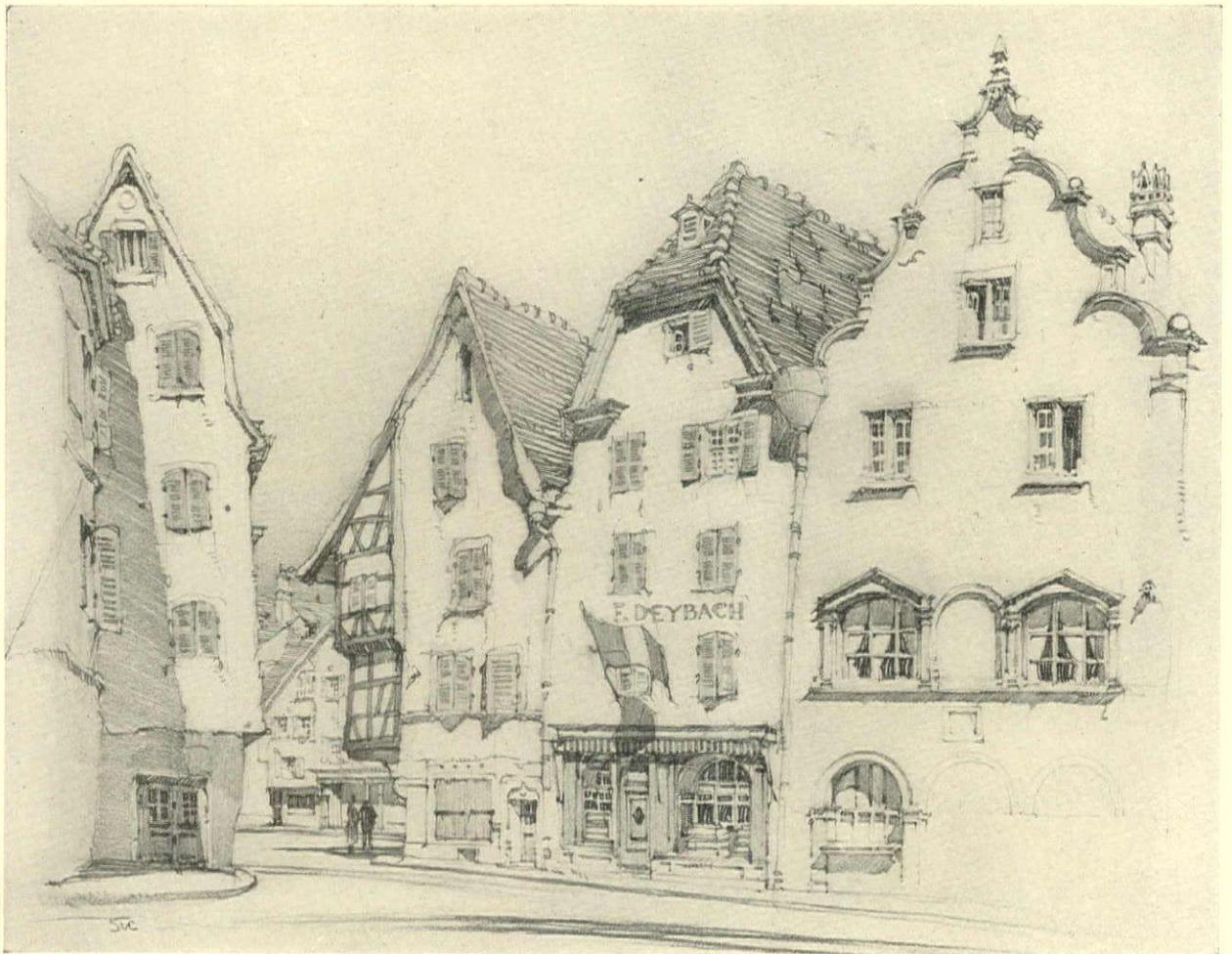
The interior of the church has suffered periodically during the centuries, and recently has been refitted in a manner which all too unhappily savors of the ecclesiastical shops on the rue St. Sulpice.

St. Martin is the only church in Colmar, I believe, which is not crowned with a stork's nest. Many of the spires of the city are capped with this huge basket of straw, like a pom-pom on a dunce cap. Most of the nests are inhabited by authentic storks, while some are mere iron baskets, hospitably placed to encourage tenants of this variety.

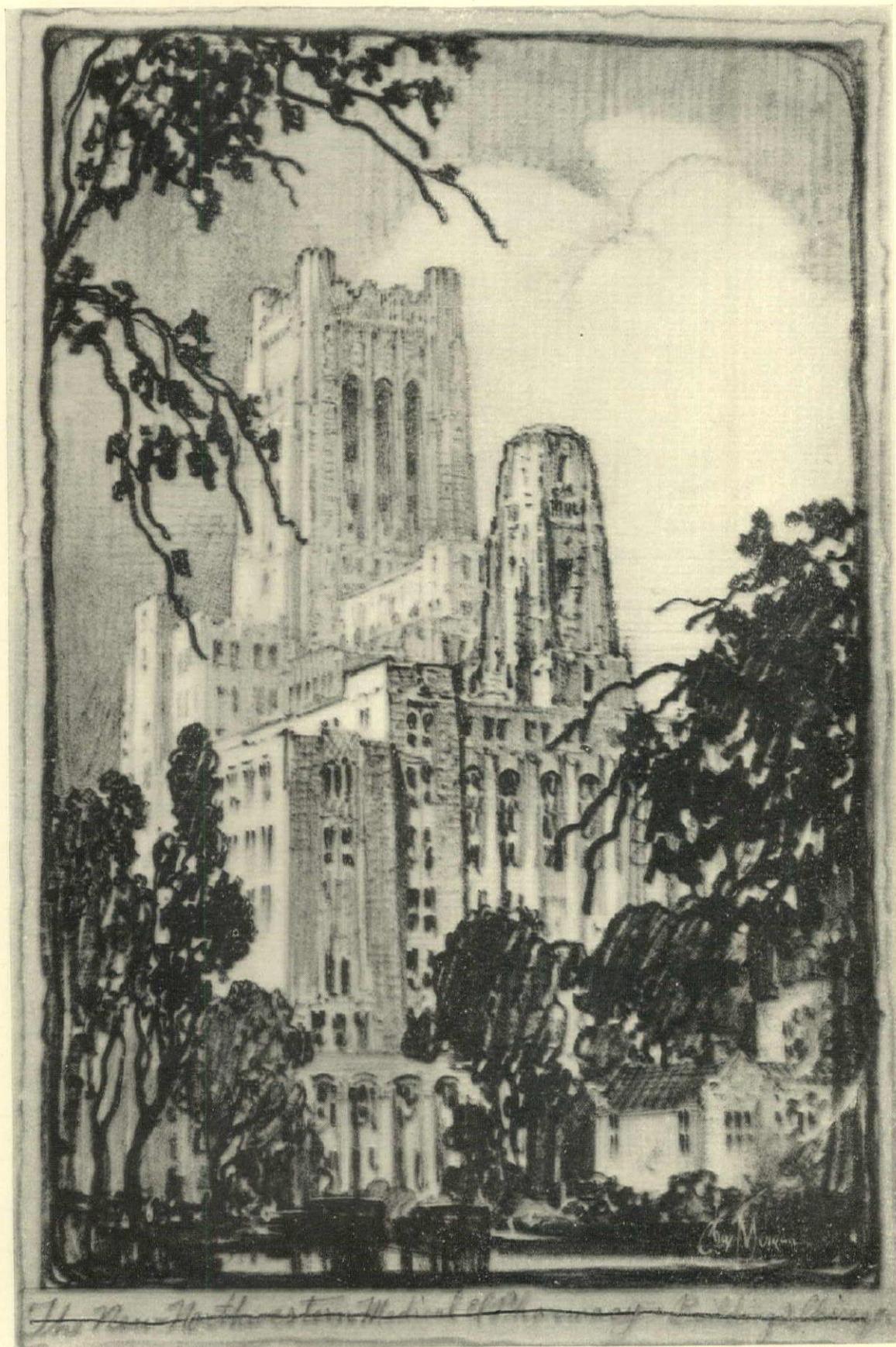
There is a touch of Bruges in the clump of fanciful old houses which make up Colmar's "Little

Venice." Their long roof lines are reflected in a stream whose lazy waters barely suffice to transport long flat barges laden with turnips and cabbages. At intervals are the traps of fish merchants, filled with plump trout. The fisherman scoops up an assortment in a crab net for the approval of passing housewives, who place the selected specimen in market baskets, floundering frantically among lettuce heads. The stream's edge resounds with the paddling of energetic laundresses and the water is milky gray from the presence of strong soap. Whether the imprisoned fish find this to their fancy is not certain, but one may hazard a guess in the negative.

Colmar merits a closing paragraph full of flourishes and superlatives, but just at the moment when these should be forthcoming we have discovered three villages so perfect, so unreasonably, violently picturesque that Colmar appears as an imperfect jewel indeed. They go under the ponderous names of Ammerschwahr, Kaisersberg and Riquewahr, and if the lead pencils don't run out, they will claim space in a forthcoming number of THE AMERICAN ARCHITECT.



A STREET IN COLMAR



MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.

JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS

## THE ALEXANDER MCKINLOCK MEMORIAL CAMPUS, NORTHWESTERN UNIVERSITY, CHICAGO

JAMES GAMBLE ROGERS AND CHILDS & SMITH, *Associated Architects*

THIS very interesting group of buildings embodies some of the most modern ideals in architectural design. The Montgomery Ward Memorial Building itself is a decided step forward in the development of scholastic buildings in this country. While it is not developed as much as the contemplated Cathedral of Learning by Klauder in Pittsburgh, nevertheless, it shows what can be done in many storied construction for handling large required spaces in intimate contact with each other,

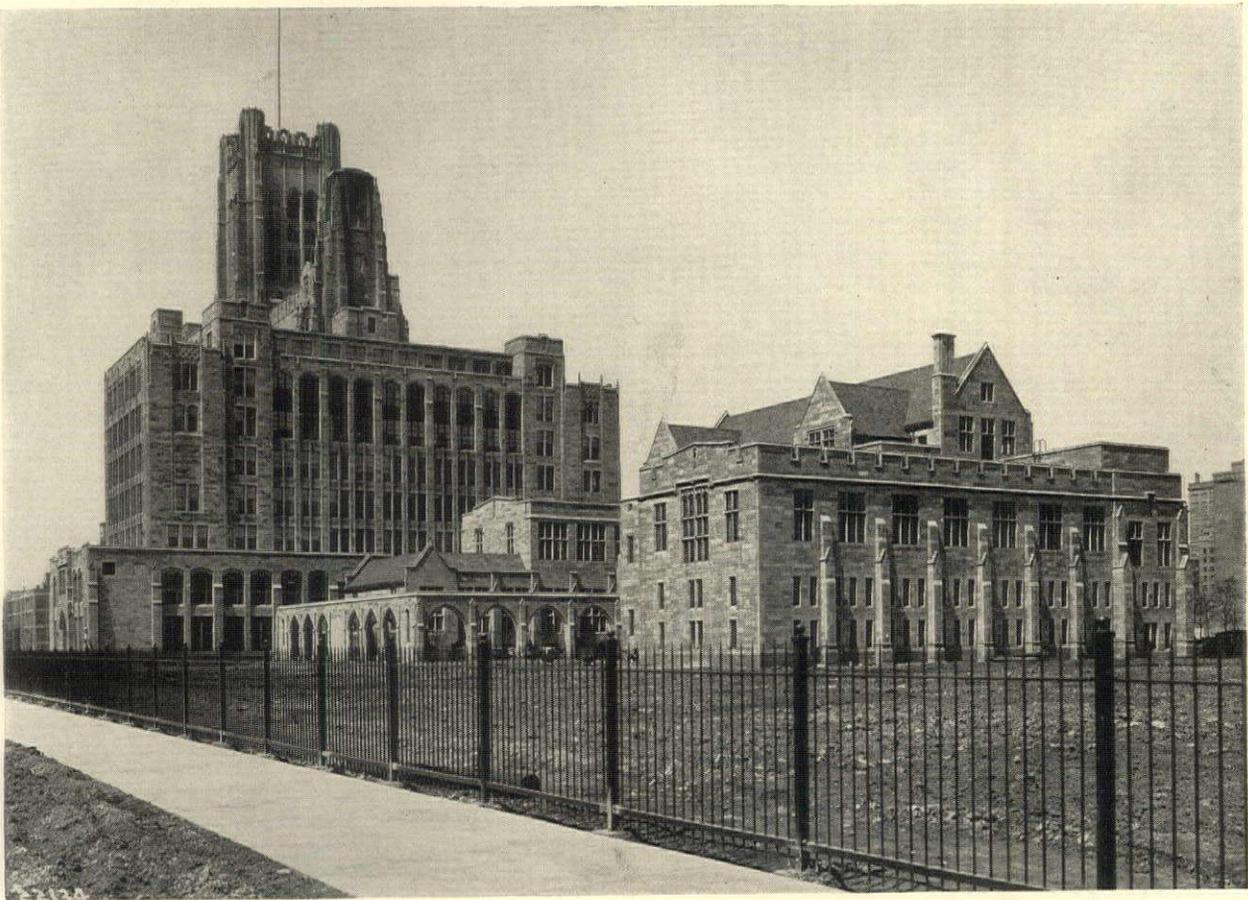
and, as in this instance, on a limited ground area.

Where these floor spaces, as required in the Montgomery Ward Memorial Building, become so enormous, is it not possible that a two or three-storied building would be out of date? In a three-storied building, it would require practically a trolley car or some other conveyance to carry one over the vast spaces required and supplied in this building, in a comparatively limited area.

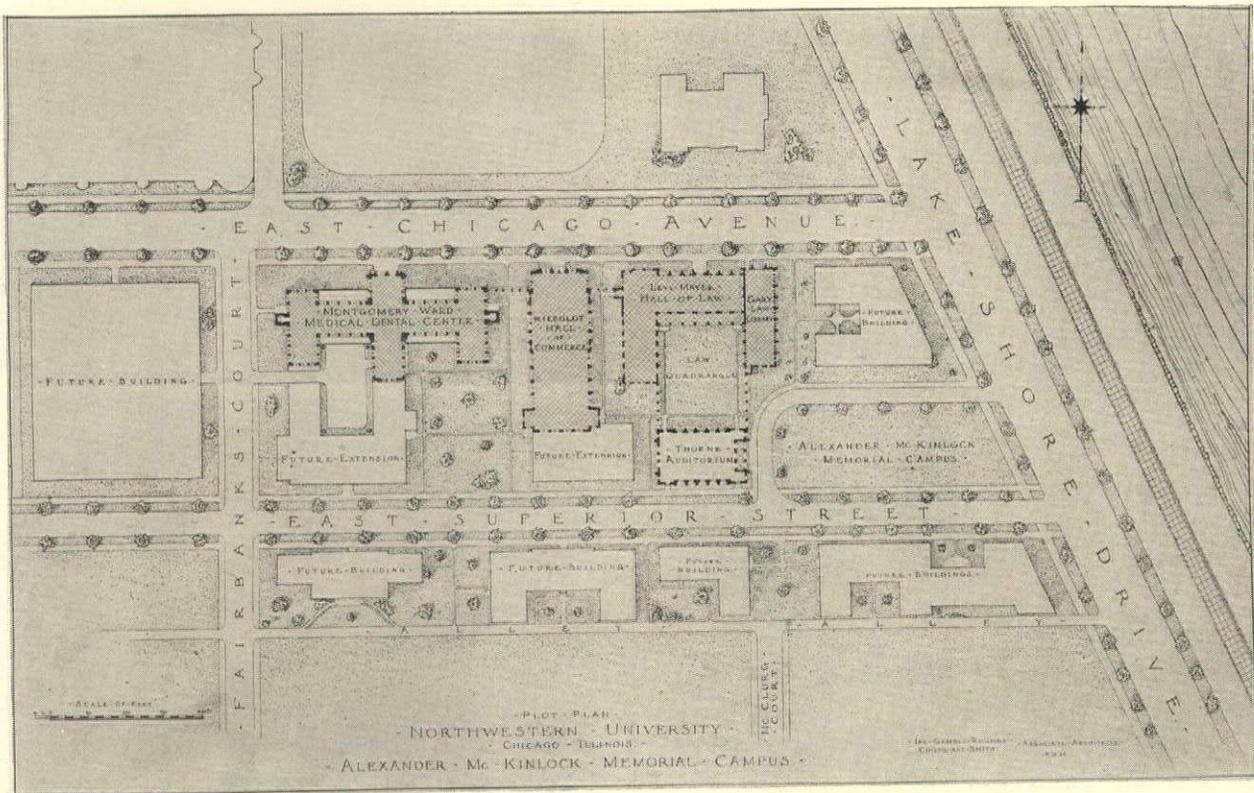
The light and air feature, the ease of access fea-



VIEW FROM SOUTHWEST—MONTGOMERY WARD MEMORIAL BUILDING IN FOREGROUND



VIEW FROM SOUTHEAST



MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.  
JAMES GAMBLE ROGERS AND CHILD'S & SMITH, ASSOCIATED ARCHITECTS

ture, proper construction, the economical heating arrangements, the economical plumbing arrangements, where the equipment is of such a complicated nature and where a single large distributing pipe will reach many superimposed areas, the economical use of electricity and the ease of electrical connections—all of these factors have been properly handled in this fourteen-storied Montgomery Ward Memorial Building, carried still higher in architectural treatment by the majestic tower rising to a height of nineteen stories or more.

It is very interesting, from a design standpoint, that in Chicago and on a plot of ground where the recessional idea is not required in this particular case, that some of the elements of high buildings required by modern zoning plans, should be carried out in this building.

One can still see the impress of Oxford or Cambridge in its scholastic treatment and in the details of the various buildings in this group. Publicly, the success of their design has already been established by two architectural juries, in the award of the gold medal of the Lake Shore Trust and Savings Bank of Chicago.

In all of these unusual types of buildings, we shall look forward with much interest to see if more recognition will come later, as our permanent ideas about architecture in this country along lines of modern touch will probably be tempered by the years. A group consciousness of good design in these

giant examples will be had by all and general expressions of artistic thought and judgment, which have been formed after more-mutual consideration.

By referring to the group plan it will be seen that the buildings erected and shown in the illustrations are cross-hatched. The future buildings to the west of Fairbanks Court and to the south of East Superior Street, shown on this group plan, are extensive hospital buildings, which will gather in years to come around the Montgomery Ward Memorial Building as a nucleus.

The small building shown on the plan as future extension immediately to the south of the Montgomery Ward Memorial Building, will probably be as large, when finally planned, as the Montgomery Ward Memorial Building itself, and is contemplated as a great central clinic, similar to the Cornell or Mayo clinics. When this extension is carried out, it will give three floors of added space to the present capacity of the medical class rooms and laboratories.

The Wieboldt Hall of Commerce, the central building with the monumental smokestack, will extend later to the south. Levy Mayer Hall of Law, immediately adjoining its Law Quadrangle, which is now surrounded by cloisters, will have the Thorne Memorial Auditorium, and still later, there will be a future building east of the Elbert H. Gary Library of Law, probably as large in cubic content as the Levy Mayer Hall of Law.

By studying the illustrations, one will observe



VIEW FROM COURTYARD, LEVY MAYER HALL OF LAW



DENTAL CLINIC, MONTGOMERY WARD MEMORIAL BUILDING



LINCOLN HALL, LEVY MAYER HALL OF LAW



LOWDEN HALL, LEVY MAYER HALL OF LAW

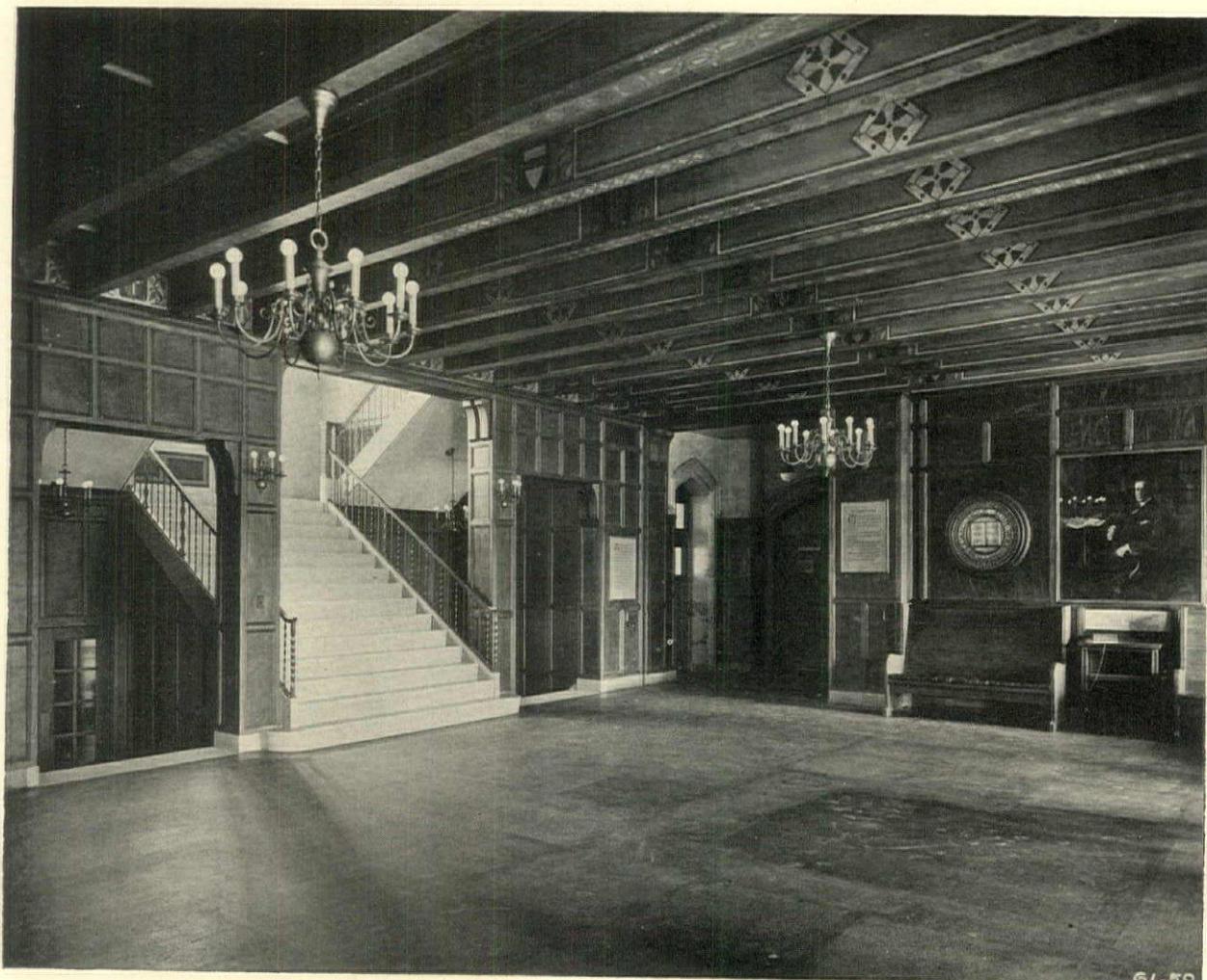
MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.

JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS

that the scheme of design has been to keep the lower buildings toward the Lake Front and to build up in great stony craggy masses the roof of Levy Mayer Hall of Law, the higher roof of the Wieboldt Hall of Commerce with its setbacks and its gigantic chimney stack, these again leading up to the exceedingly interesting mass group of the Montgomery Ward Memorial Building itself—this building culminating in a majestic tower of Eng-

and also will be in close touch with Wesley Hospital, Passavant Hospital and the other general hospitals surrounding the Montgomery Ward Memorial Building to the west and south.

The large wings to the east and west of the Montgomery Ward Memorial Building form excellent spaces for laboratories, with ideal light and air on four sides. The central wing extending to the north is used on a number of floors for lecture



MAIN ENTRANCE CORRIDOR, LEVY MAYER HALL OF LAW

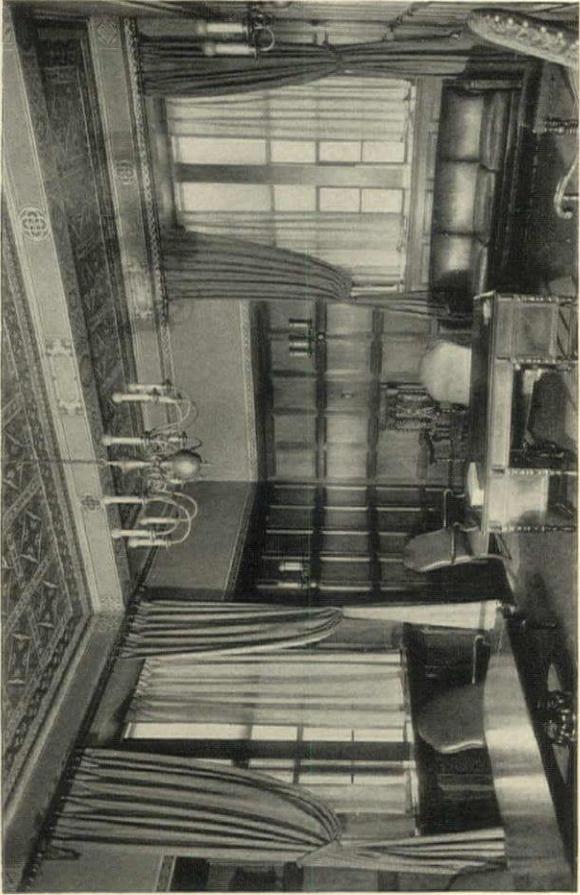
lish proportions and design to a height of 260 feet.

The Montgomery Ward Memorial Building is fourteen stories in height, with an additional six stories in the tower. The lower seven floors are arranged for the Medical School; the next six floors for the Dental School. The utilities used for both of these schools are placed in the fourteenth floor and in a portion of the tower. The administration department, including the president's suite, the alumni suite, the business offices, etc., occupy the remainder of the tower. The medical department, by being placed on the lower floors, will have direct connection with the main clinic and general hospital, to be built later immediately to the south,

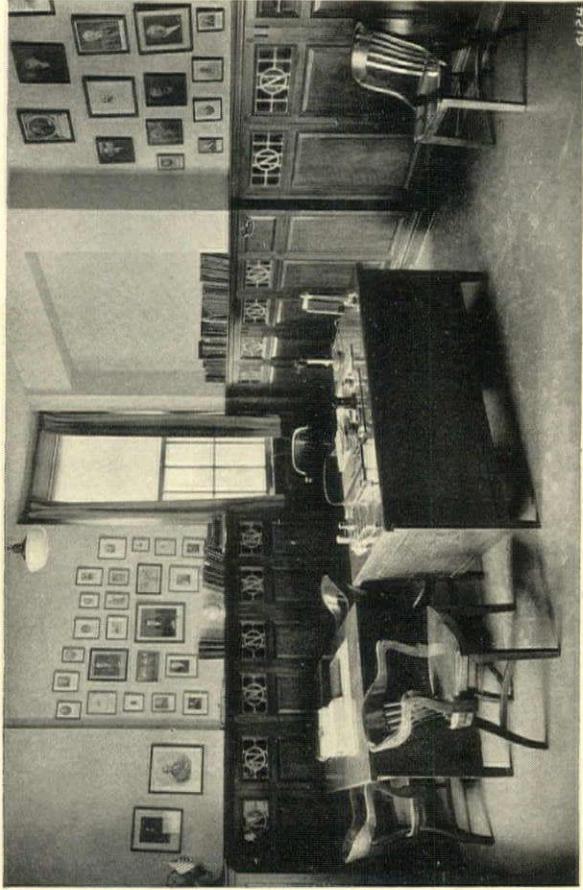
rooms. The general floor plan has been developed with the idea of a 16-foot depth, which would supply excellent light and air to all the offices and class rooms in the building.

The medical system of instruction contemplated is that of very small groups. On the dental floors, from the eighth to thirteenth, inclusive, a slightly different system is used, with groups of forty students in each section.

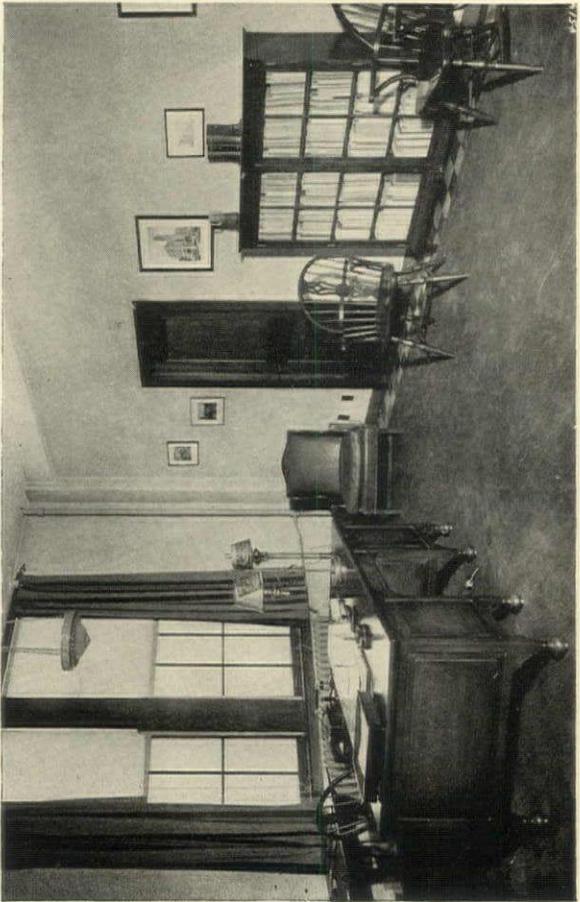
The equipment in both the Medical and Dental Schools is the most modern in type, much of it being built especially for this particular school. Great interest has already been manifested in the arrangement of the dental chairs.



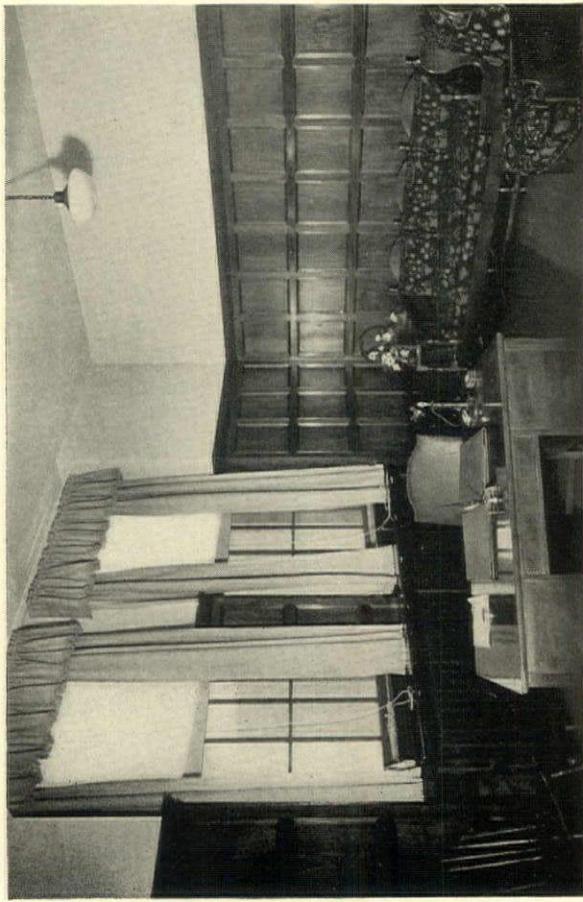
DR. SCOTT'S PRIVATE OFFICE, MONTGOMERY WARD MEMORIAL BUILDING



DEAN CUTTER'S PRIVATE OFFICE, MONTGOMERY WARD MEMORIAL BUILDING



ASSISTANT DEAN DAVIES' PRIVATE OFFICE, WIEBOLDT HALL OF COMMERCE



DEAN BLACK'S PRIVATE OFFICE, MONTGOMERY WARD MEMORIAL BUILDING

MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.

JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS

The Wieboldt Hall of Commerce, in the center of the group, houses the School of Commerce, which has the enormous capacity of about four thousand students, most of whom are taken care of in two or three hour classes early in the evening. This school has a capacity of twenty rooms, seating about 1500 students. It has large offices, a research department, a library and club rooms for men and women students. On the upper floor is housed the Open Court Publishing Company.

The heating plant for the entire group is placed in the first two floors of the School of Commerce, to the rear; it has a potential capacity of double that of the cubic contents of the present buildings.

The Law Buildings to the east of Wieboldt Hall of Commerce, consisting of Levy Mayer Hall of

Law and the Elbert H. Gary Library of Law, are more nearly like the Oxford buildings in height and general character. More architectural treatment, so far as textures and materials are concerned, has been employed in the Law School buildings, where color has been given great importance.

One will be especially interested in the large lecture room called Lincoln Hall, which recalls in many respects the seating in the House of Commons in London.

All of these buildings are of the best fireproof construction, with the finest type of commercial equipment possible to secure. The architects have endeavored to carry out the wishes of Mrs. Montgomery Ward—that her memorial be monumental, useful and enduring.

ORNAN H. WALTZ DEAD

ORNAN HUBBARD WALTZ, architect, of Ithaca, N. Y., died on June 16th. He was in his 50th year.

"Mr. Waltz was a personality possessing qualities which endeared him to his associates and colleagues in the profession, not only in the territory of the Central New York Chapter of The American Institute of Architects, but also in the National body. He and his partner, Mr. Gibb, had attained a position and a reputation very gratifying to them and to their friends. With this as a background it was interesting to note the enthusiasm with which Mr. Waltz undertook any of the architectural commissions with which he was entrusted or when acting in any public matter calling for service which involved the knowledge and experience which he possessed.

"He gave generously of his time and thought to all matters affecting the City which he had adopted, and there was no demand made upon him in the interest of the profession of architecture which he refused or even attempted to evade. Speaking on behalf of his colleagues in the Central New York Chapter, I wish to say his death has removed one of the very important men of the Chapter, one who was faithful in his attendance at all meetings, and that it is with profound regret and sorrow that we record his passing away."

ALBERT L. BROCKWAY

THOMAS E. TALLMADGE RECEIVED HONORARY DEGREE MASTER OF ARTS

DURING the sixty-ninth annual commencement of Northwestern University, Chicago, Thomas E. Tallmadge received the honorary degree of Master of Arts. The citation read as follows:

Master of Arts—Thomas Eddy Tallmadge, architect, with a special interest in the planning of churches; Fellow of The American Institute of

Architects; Professor of Architectural History in Armour Institute of Technology; lecturer at the Art Institute of Chicago; Vice President of the Chicago Society of Etchers; for some time President of the Art Commission of the City of Evanston. Distinguished contributor to the literature of his profession and of other fields of art; painter of enviable attainment; a versatile man of liberal culture.

MEDAL FOR TRIBUNE TOWER DESIGN

JOHN MEAD HOWELLS and Raymond Hood have been awarded the gold medal of the Chicago Chapter of The American Institute of Architects for their design for the Chicago Tribune Tower. This is a noteworthy award as it is the first year for five years past that the Chapter medal has been awarded.

But two other buildings erected in Chicago have won for their designers this distinguished honor. These were the Blackstone Hotel, Marshall & Fox, architects; and the Chase Apartments designed by Schmidt, Garden & Martin, architects.

DESIGN AND MASS PRODUCTION

THERE seems as much need to restrict the amount of design for industrial needs as to promote it, states *The Builder* in a recent issue. We could heartily wish to see commercial pottery come in simpler guise, or that textiles gave rest from superabundant pattern. How agreeable to look into a shop window where design was beautiful because it was rare, and grew rather from feeling for beauty than market inducements. We can all recognize the necessity for mass production, but we do not realize that the conditions necessitate simplicity and restraint and the avoidance of pretending to give what in the nature of mass production can hardly belong to it. If mass production could be directed to work within the limits which wholesale manufacture requires we should find it was thus greatly improved.



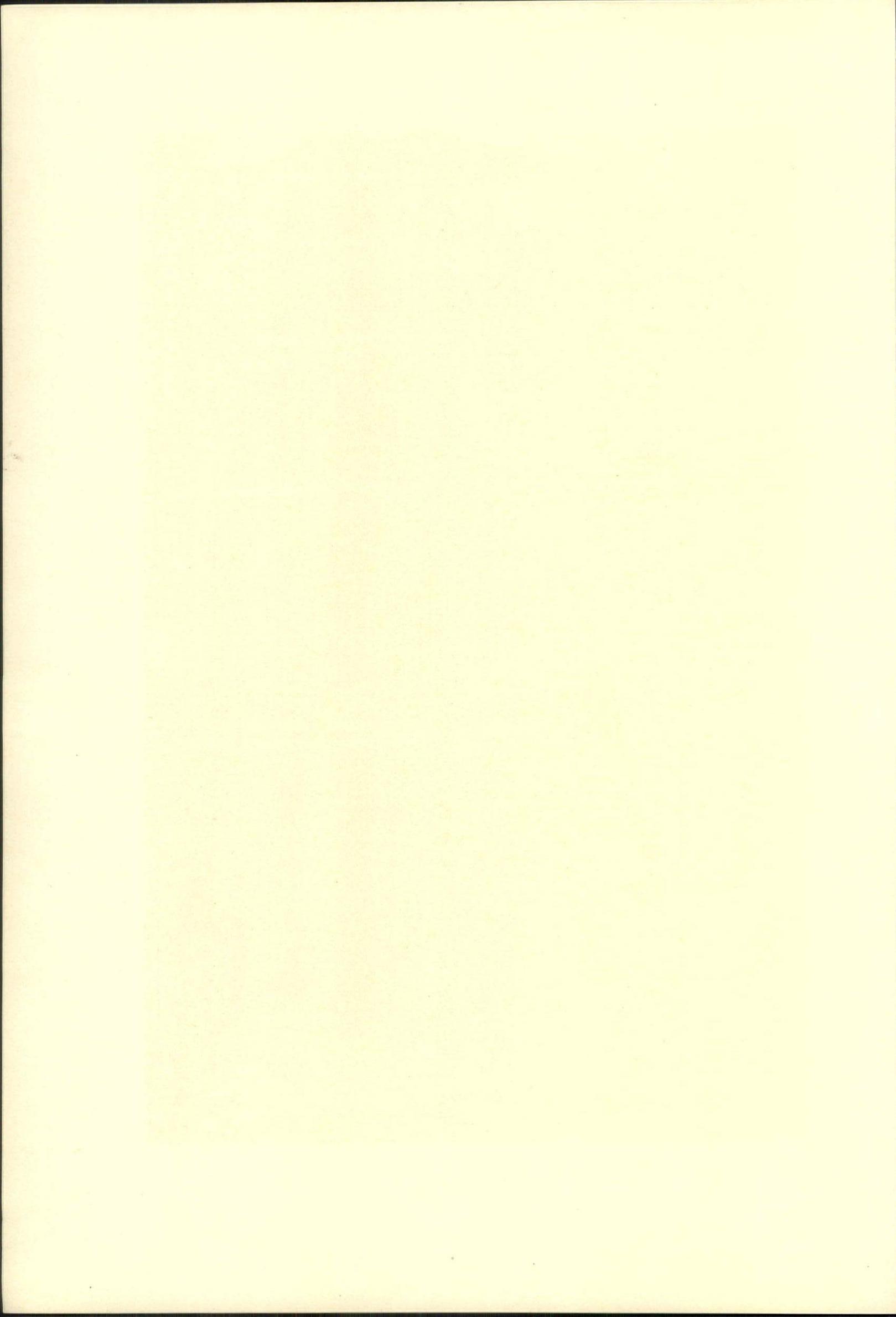
LEVY MAYER HALL OF LAW

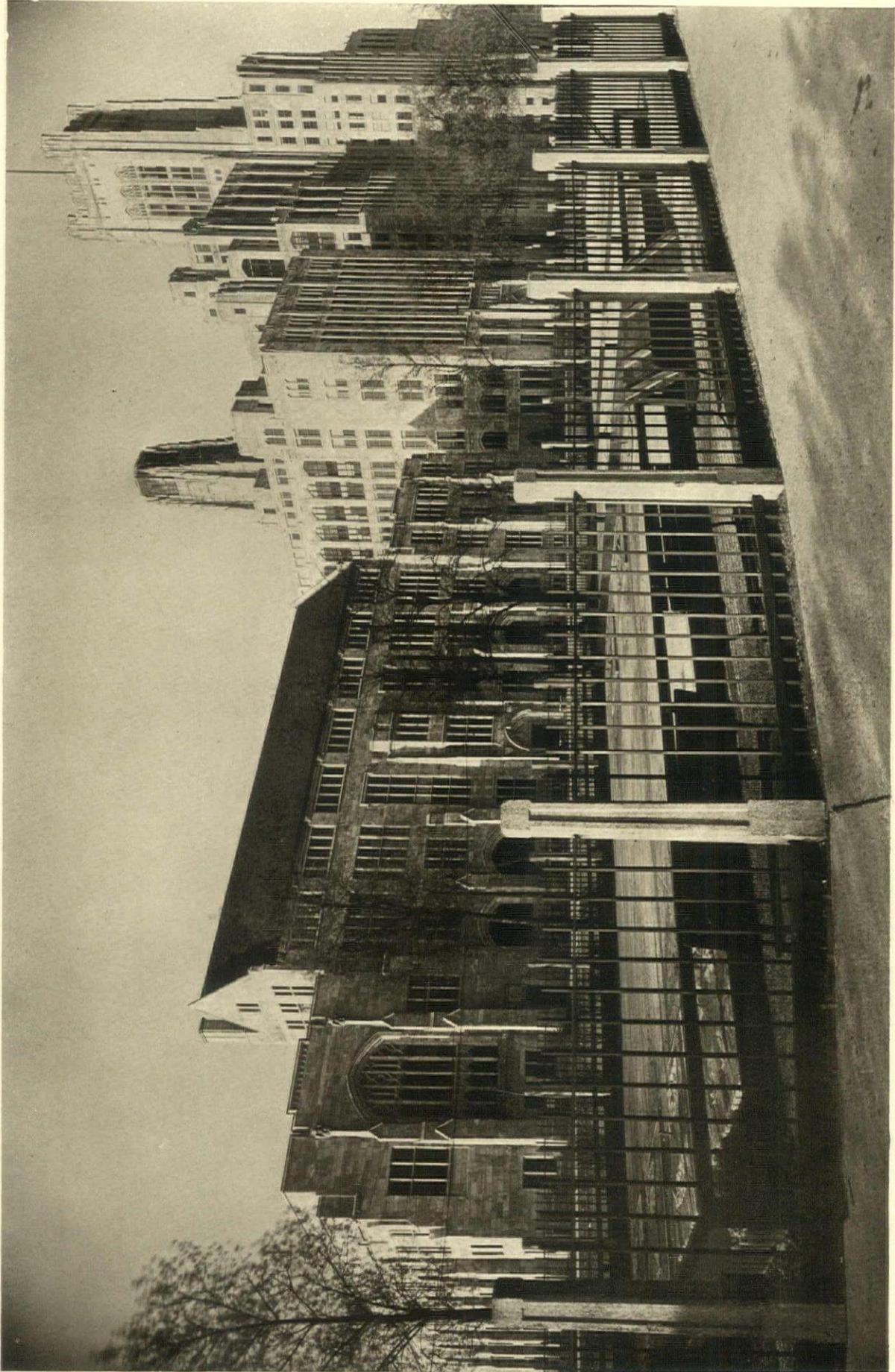
WIEBOLDT HALL, SCHOOL OF COMMERCE

MONTGOMERY WARD MEMORIAL BUILDING

MCKINLOCK CAMPUS BUILDINGS NORTHWESTERN UNIVERSITY, CHICAGO, ILL.

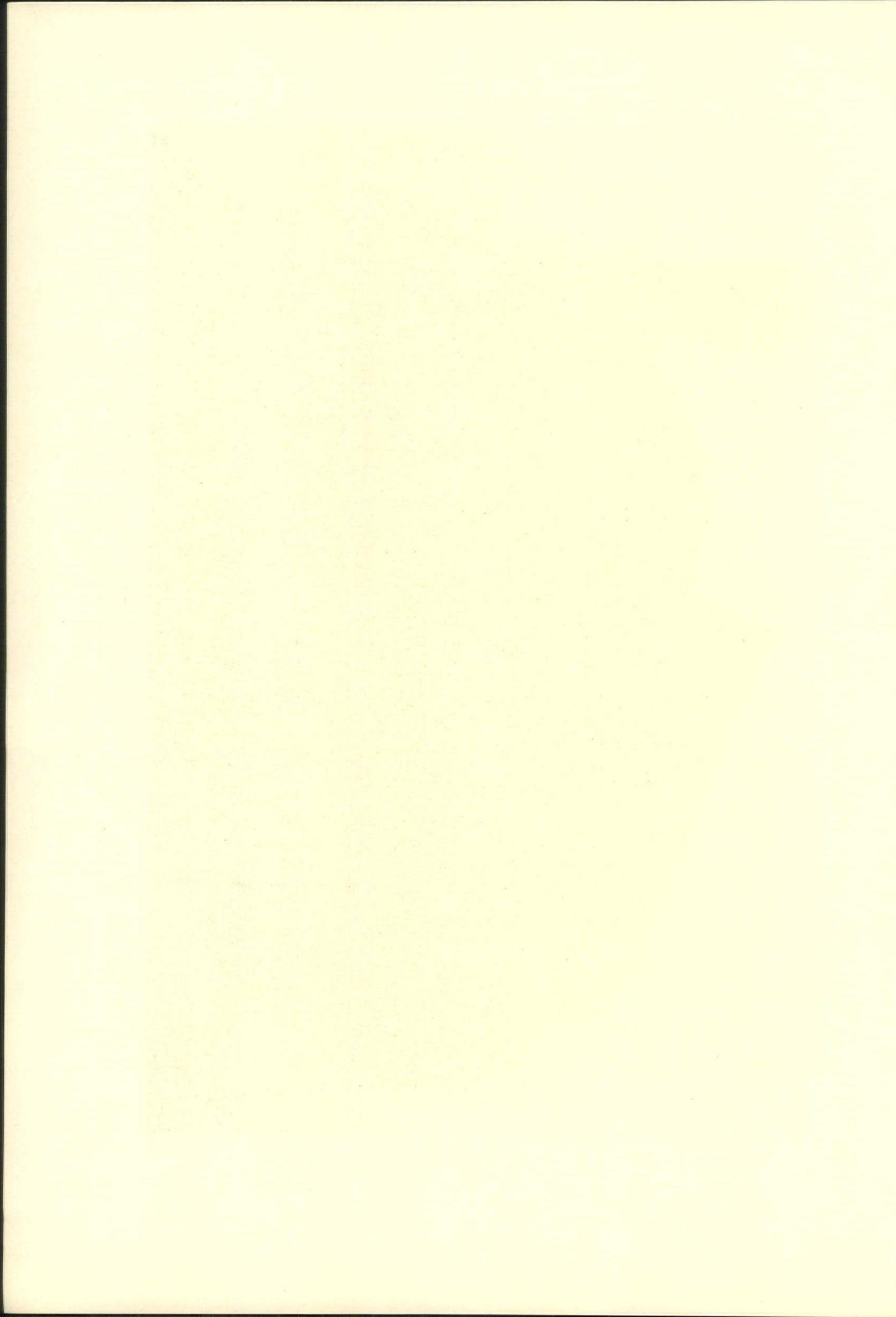
JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS

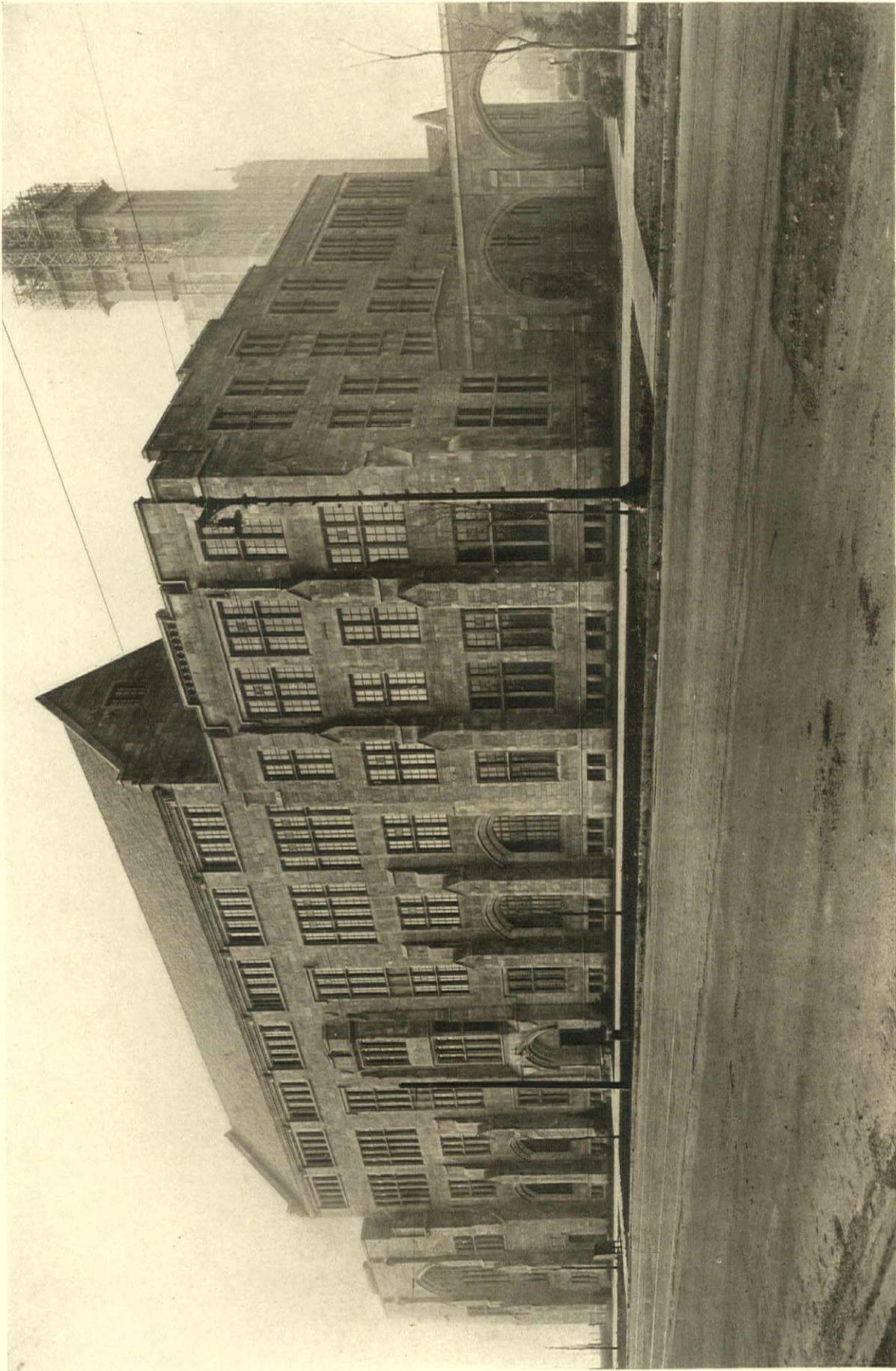




PERSPECTIVE VIEW, TAKEN FROM NORTHWEST, SHOWING RELATIVE POSITION OF THE FOUR BUILDINGS  
MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.

JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS

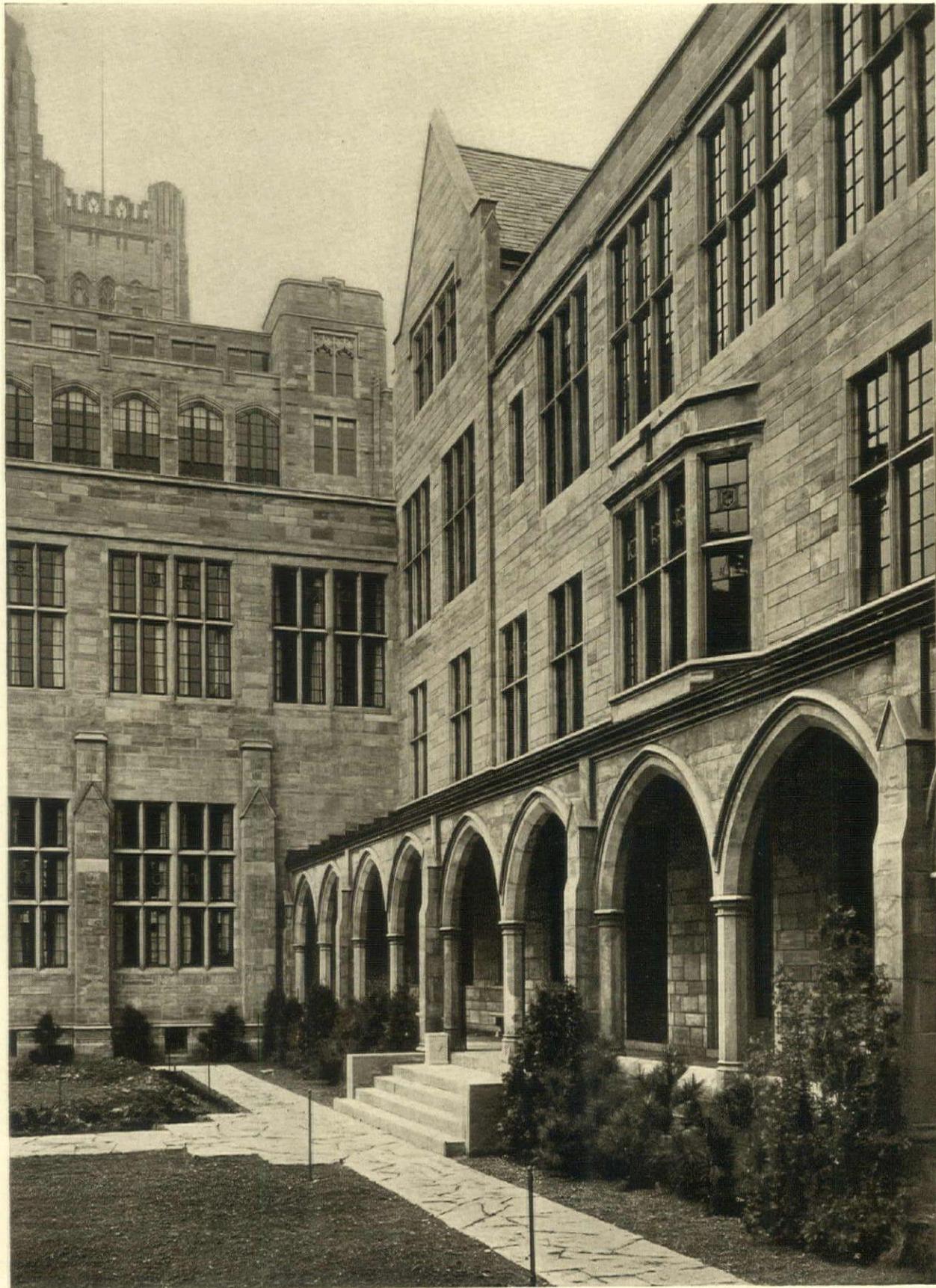




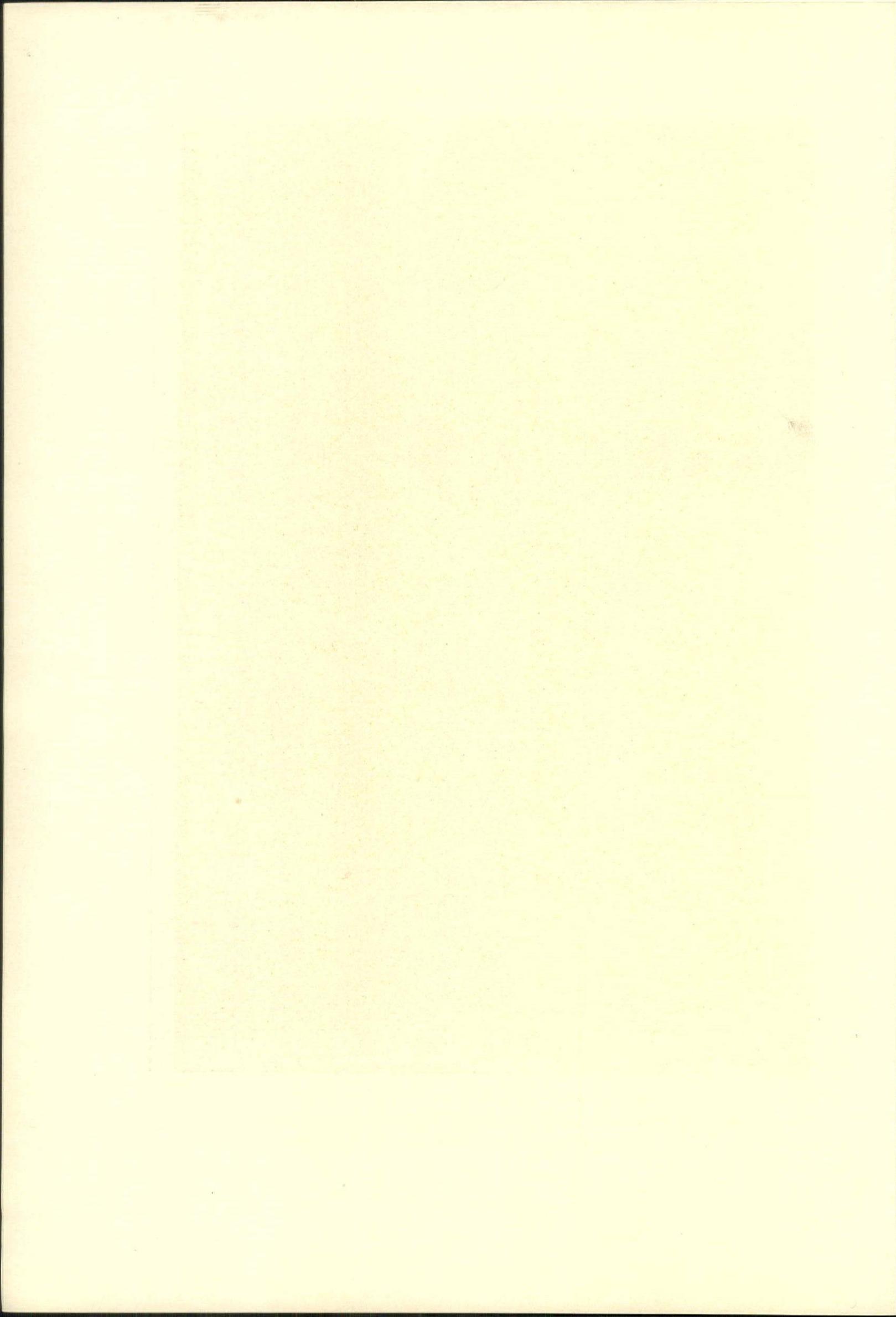
NORTHWEST ELEVATION, LEVY MAYER HALL OF LAW AND ELBERT H. GARY LIBRARY OF LAW  
MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.

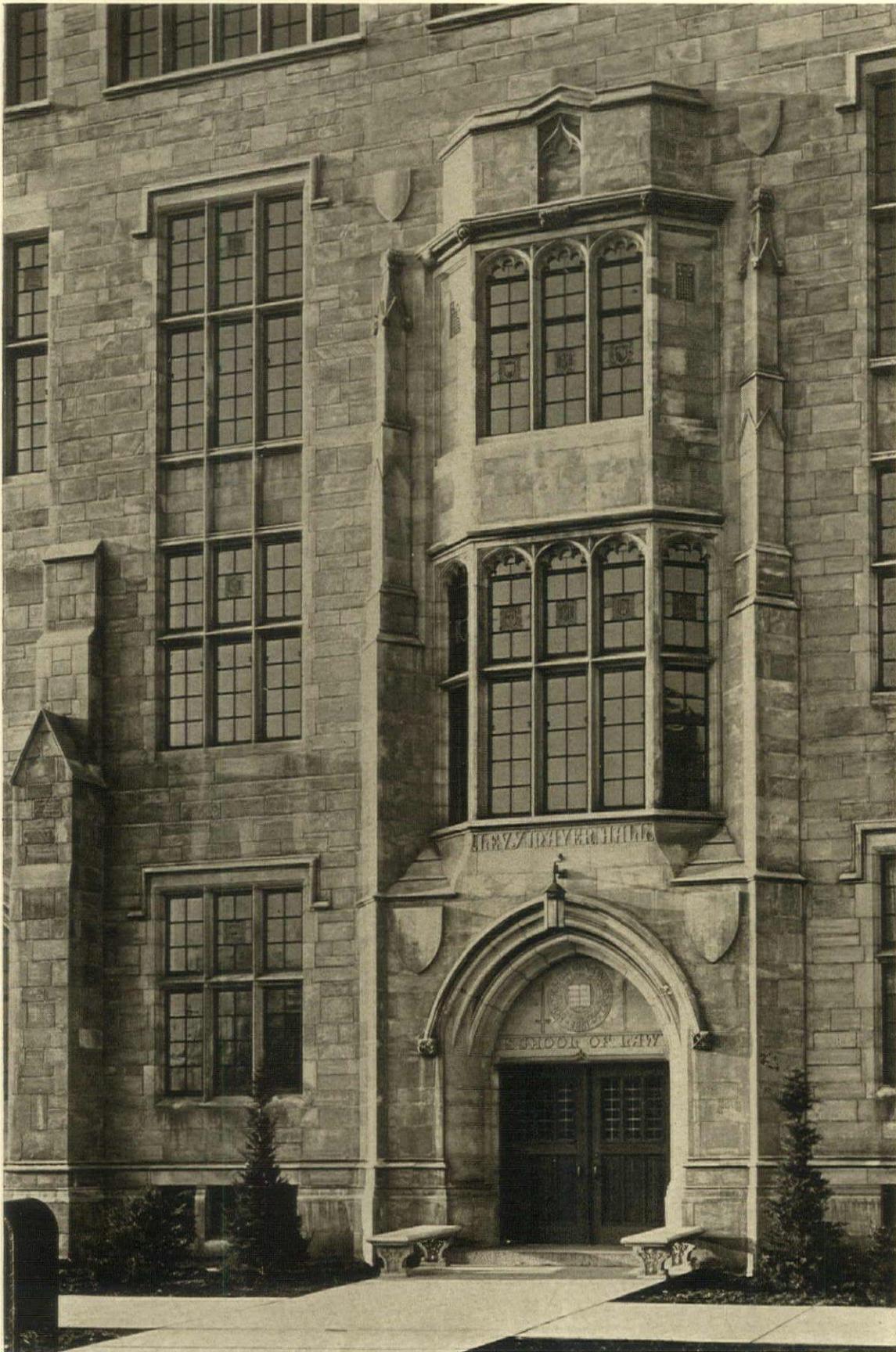
JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS



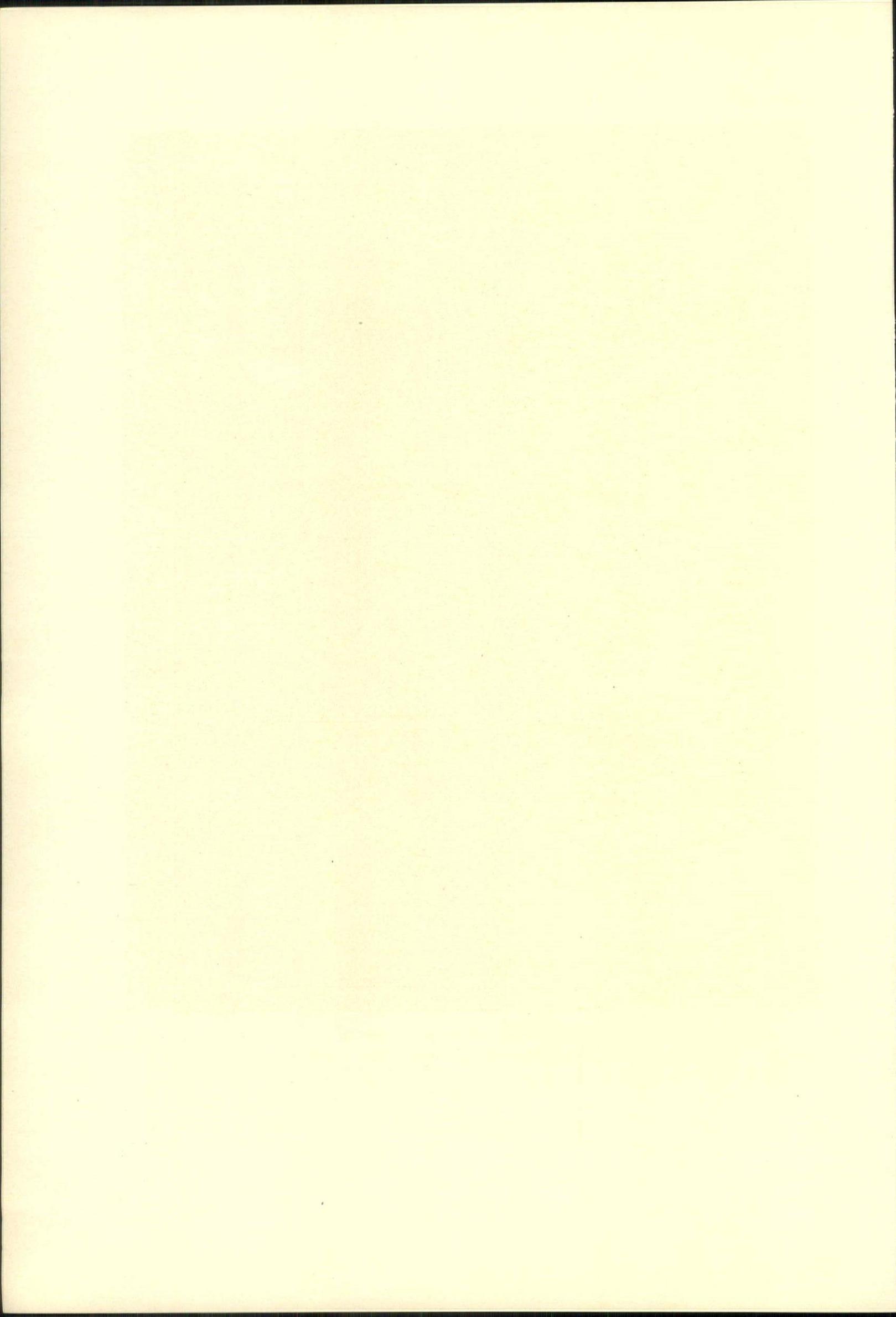


PORTICO IN COURTYARD, LEVY MAYER HALL OF LAW  
MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.  
JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS



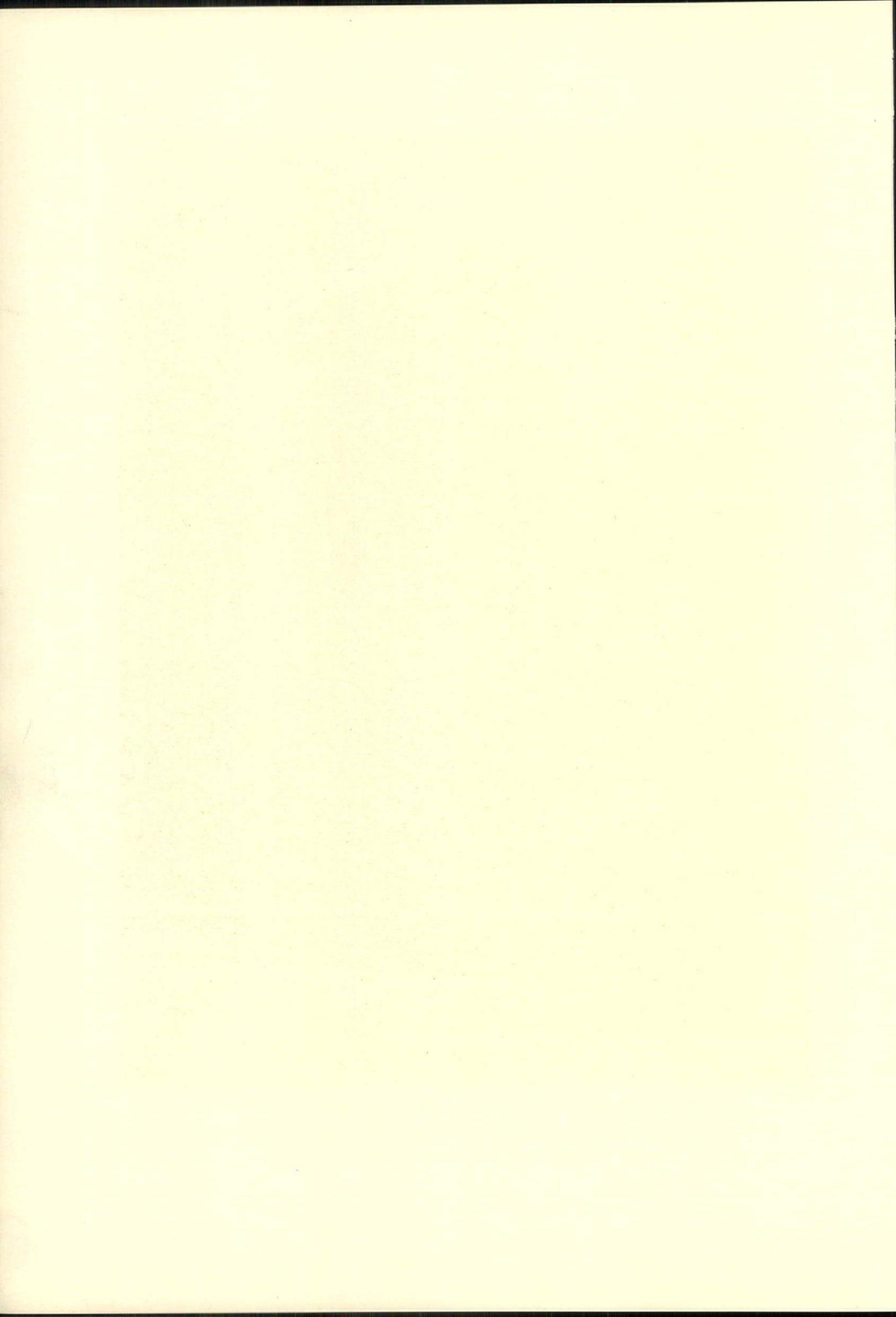


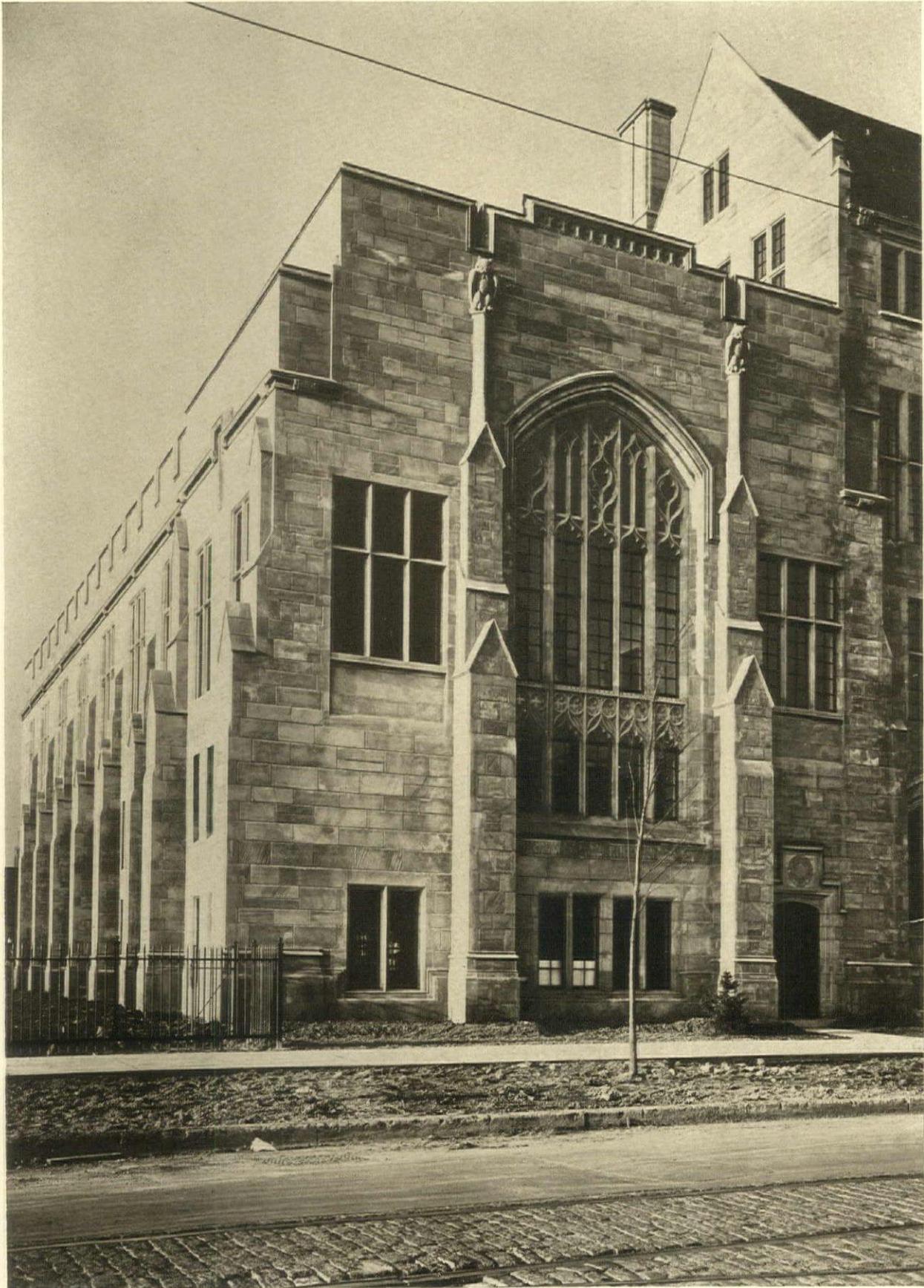
MAIN ENTRANCE DOORWAY, LEVY MAYER HALL OF LAW  
MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.  
JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS



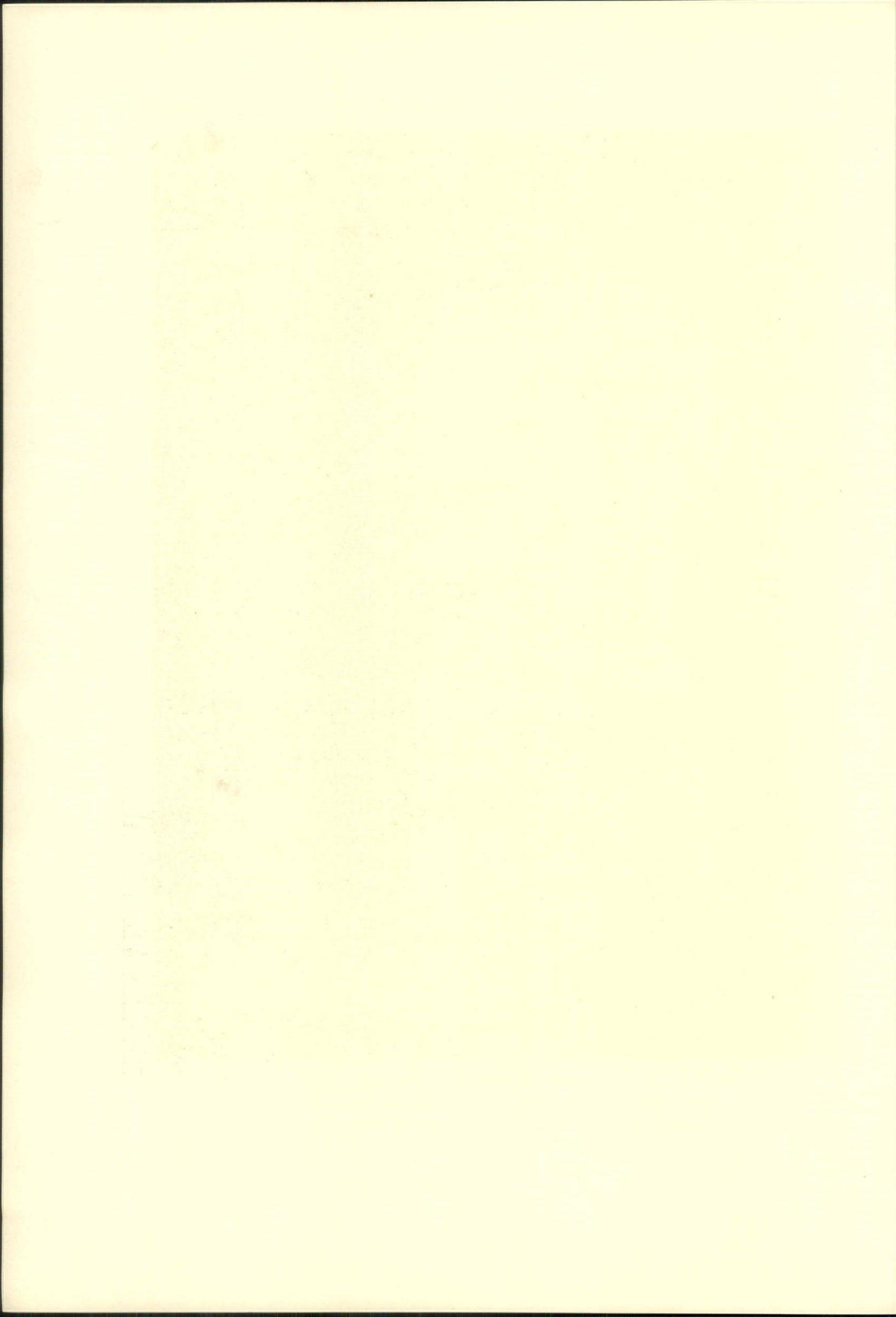


FACULTY ROOM, LEVY MAYER HALL OF LAW  
MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.  
JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS





FRONT ELEVATION, ELBERT H. GARY LIBRARY OF LAW  
McKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.  
JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS

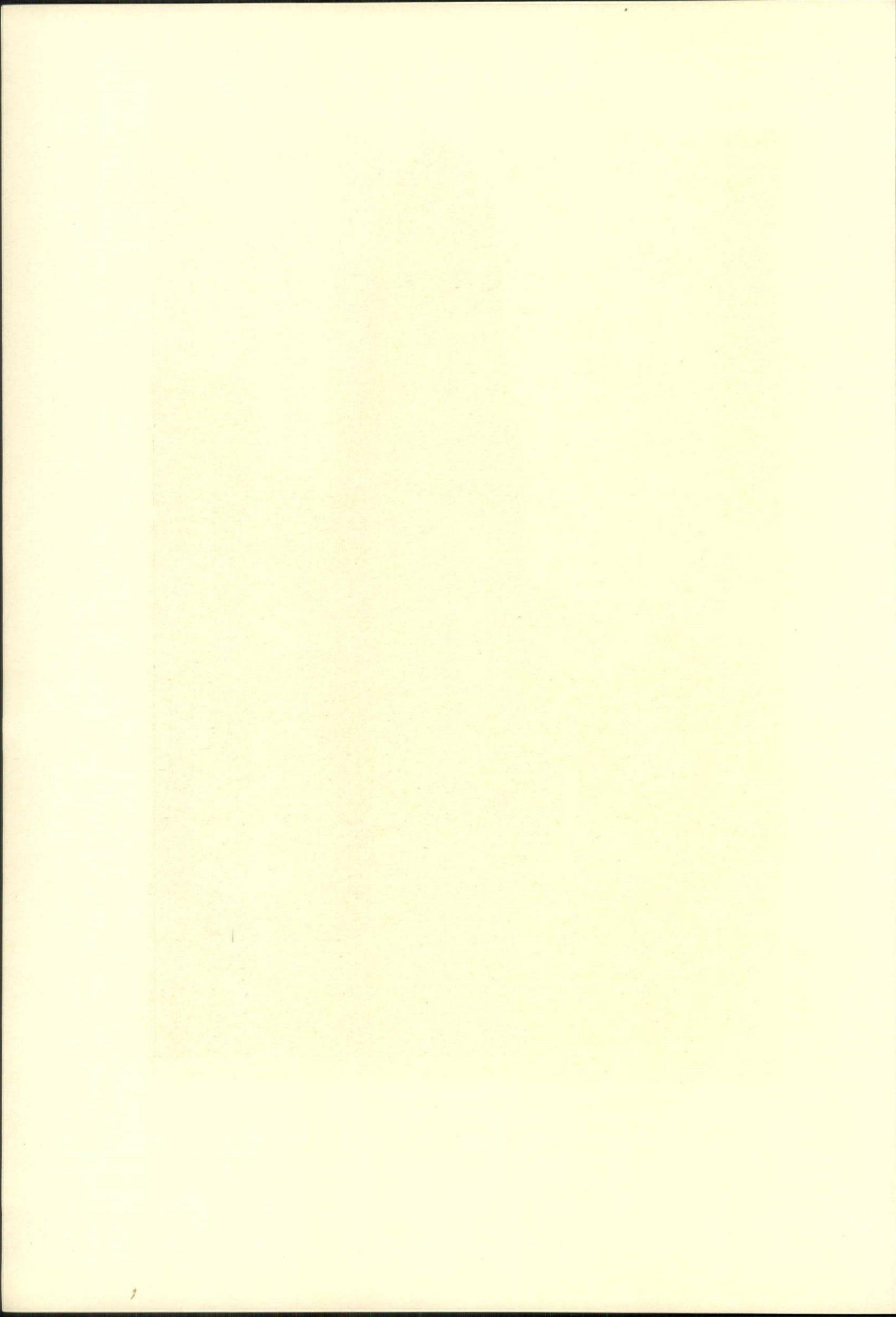


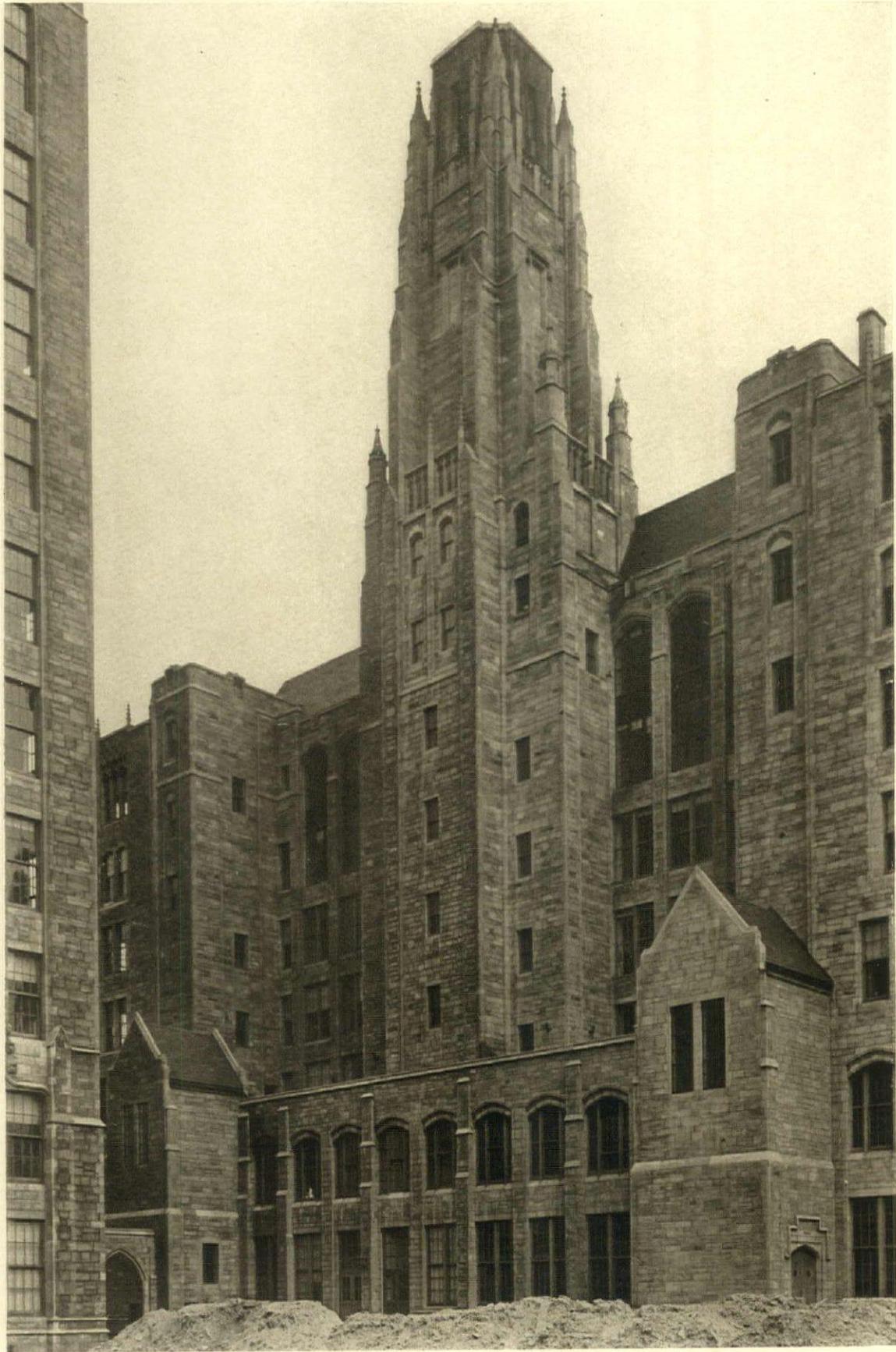


ELBERT H. GARY LIBRARY OF LAW

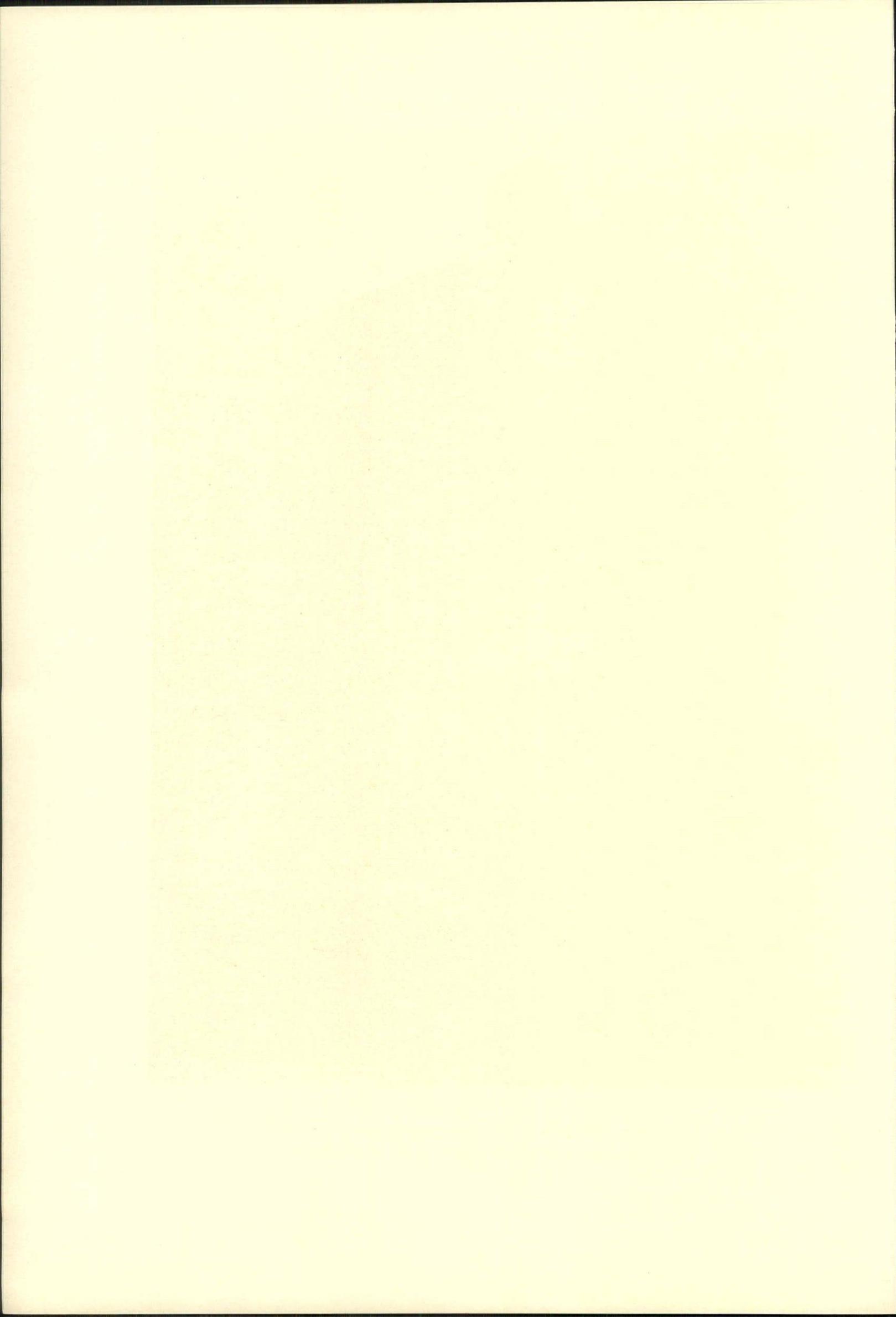
McKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.

JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS



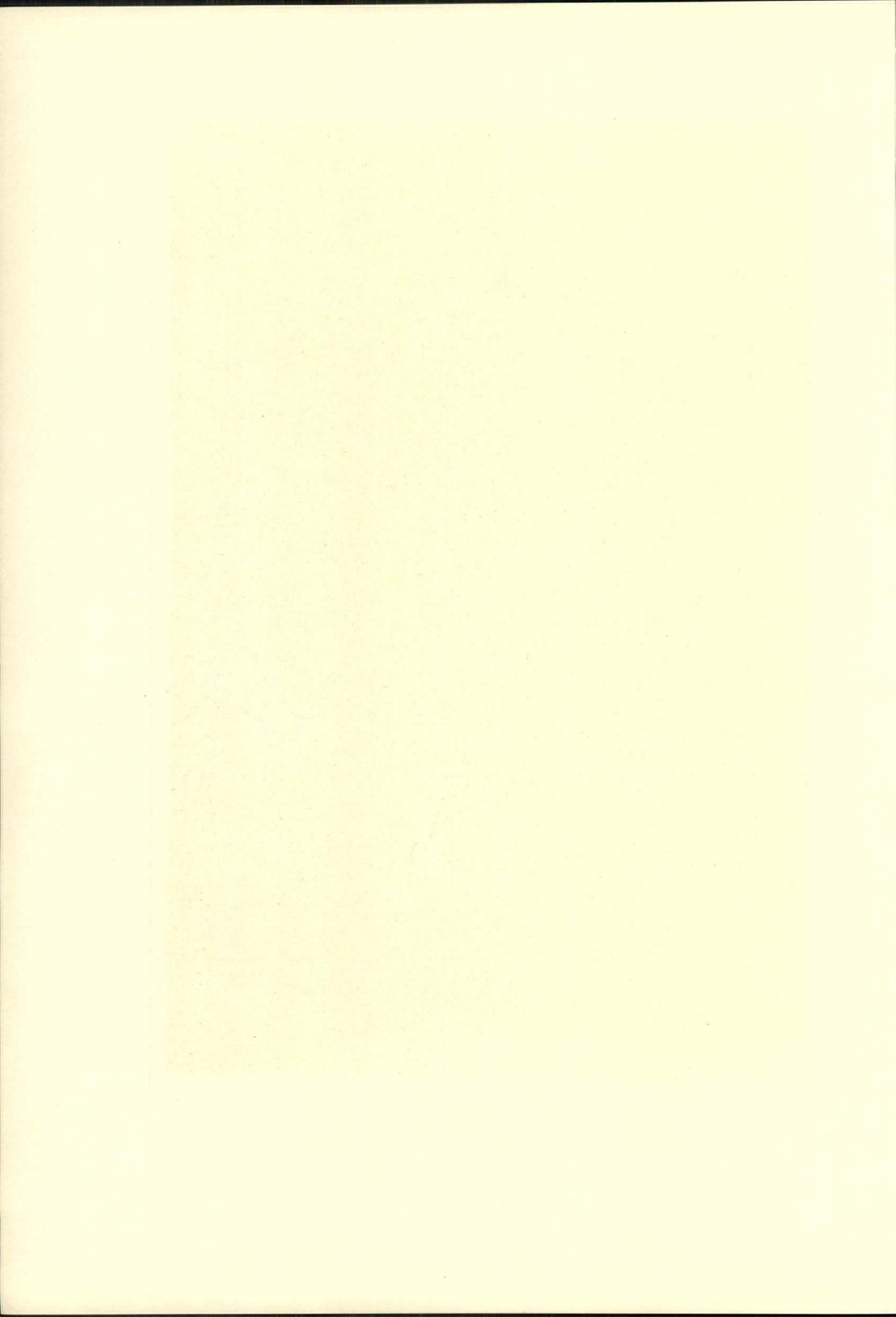


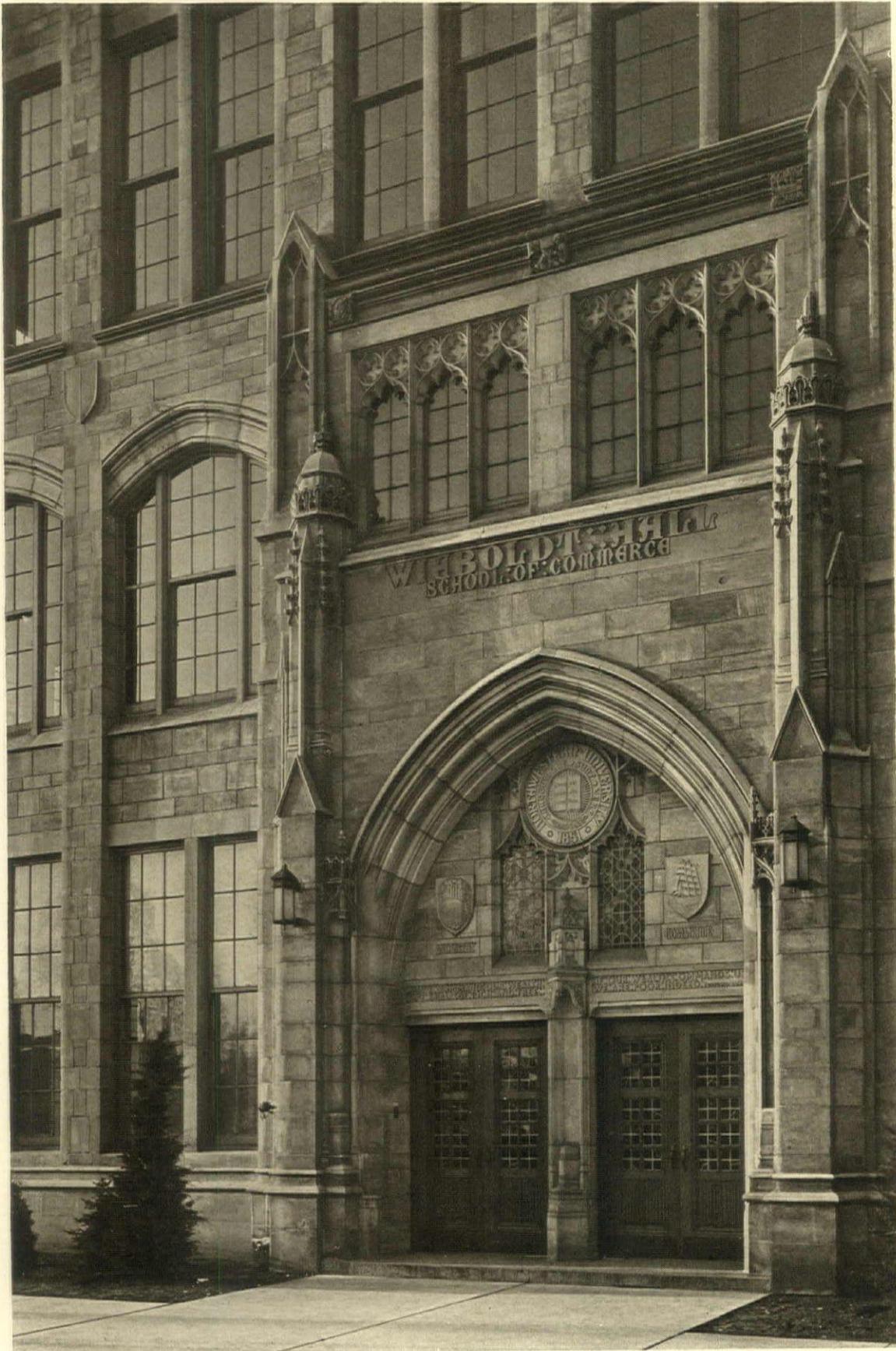
DETAIL OF WEST ELEVATION, WIEBOLDT HALL, SCHOOL OF COMMERCE  
MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.  
JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS



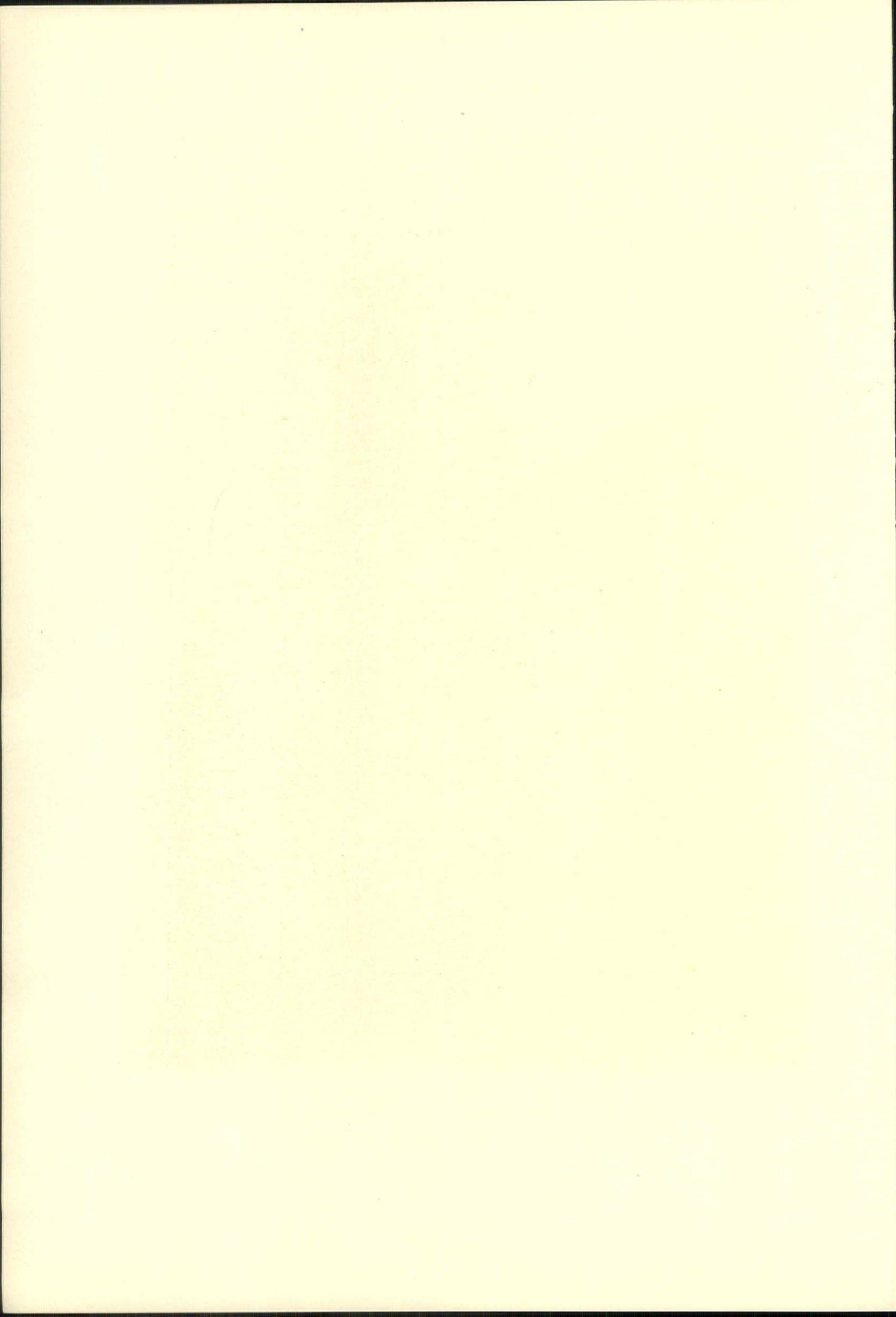


NORTH ELEVATION, WIEBOLDT HALL, SCHOOL OF COMMERCE  
MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.  
JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS



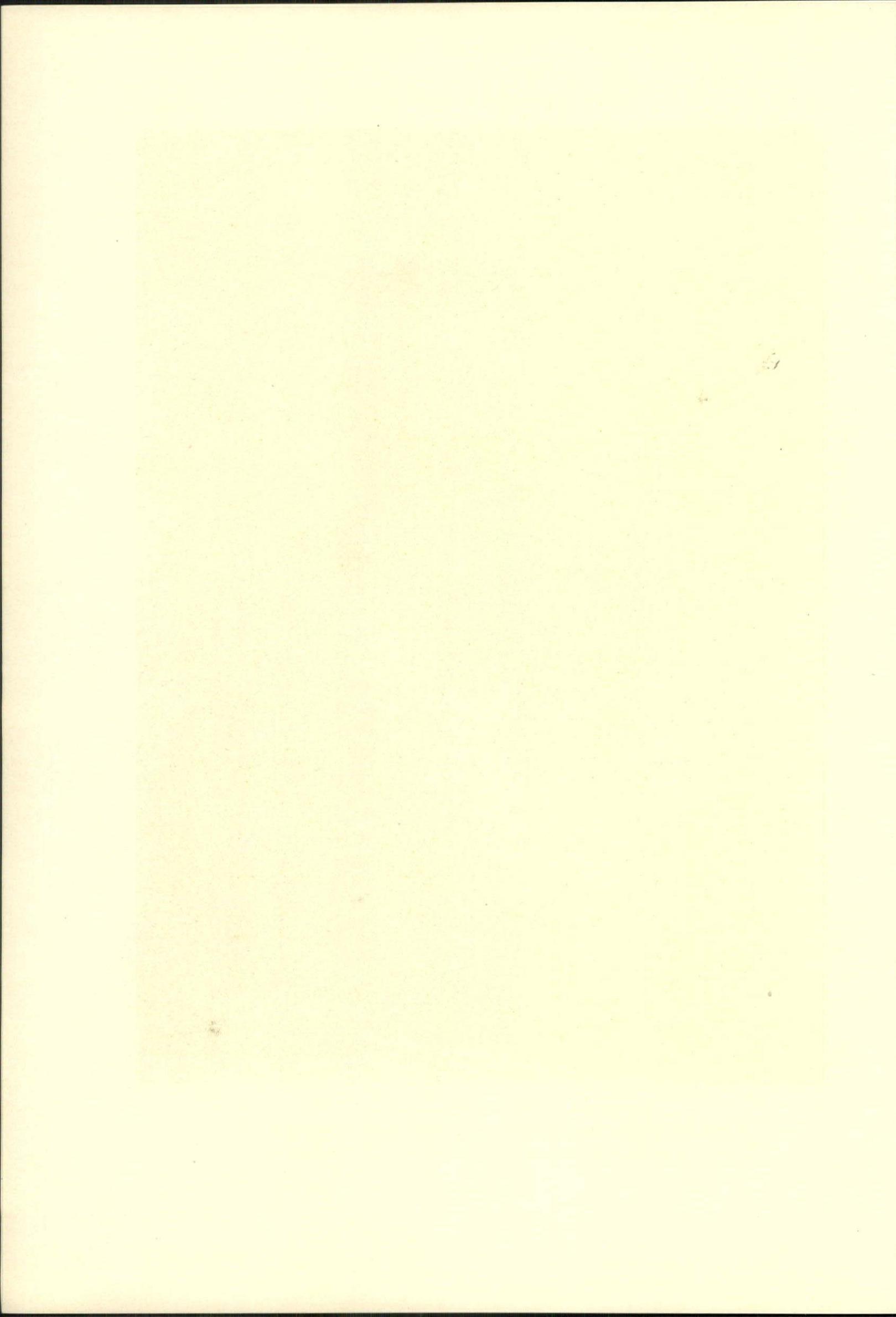


MAIN ENTRANCE, WIEBOLDT HALL, SCHOOL OF COMMERCE  
MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.  
JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS



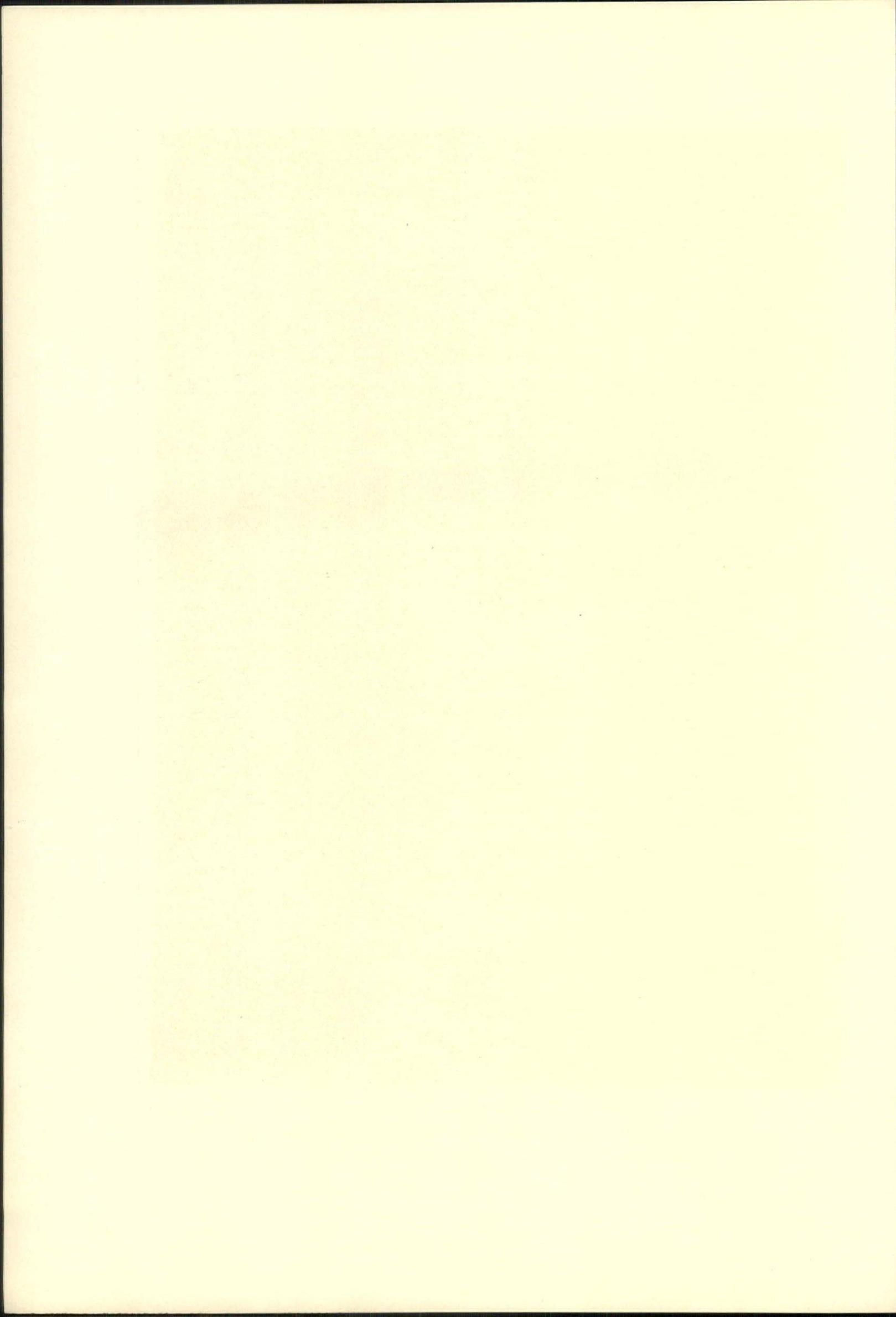


NORTH ELEVATION, MONTGOMERY WARD MEMORIAL BUILDING  
MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.  
JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS



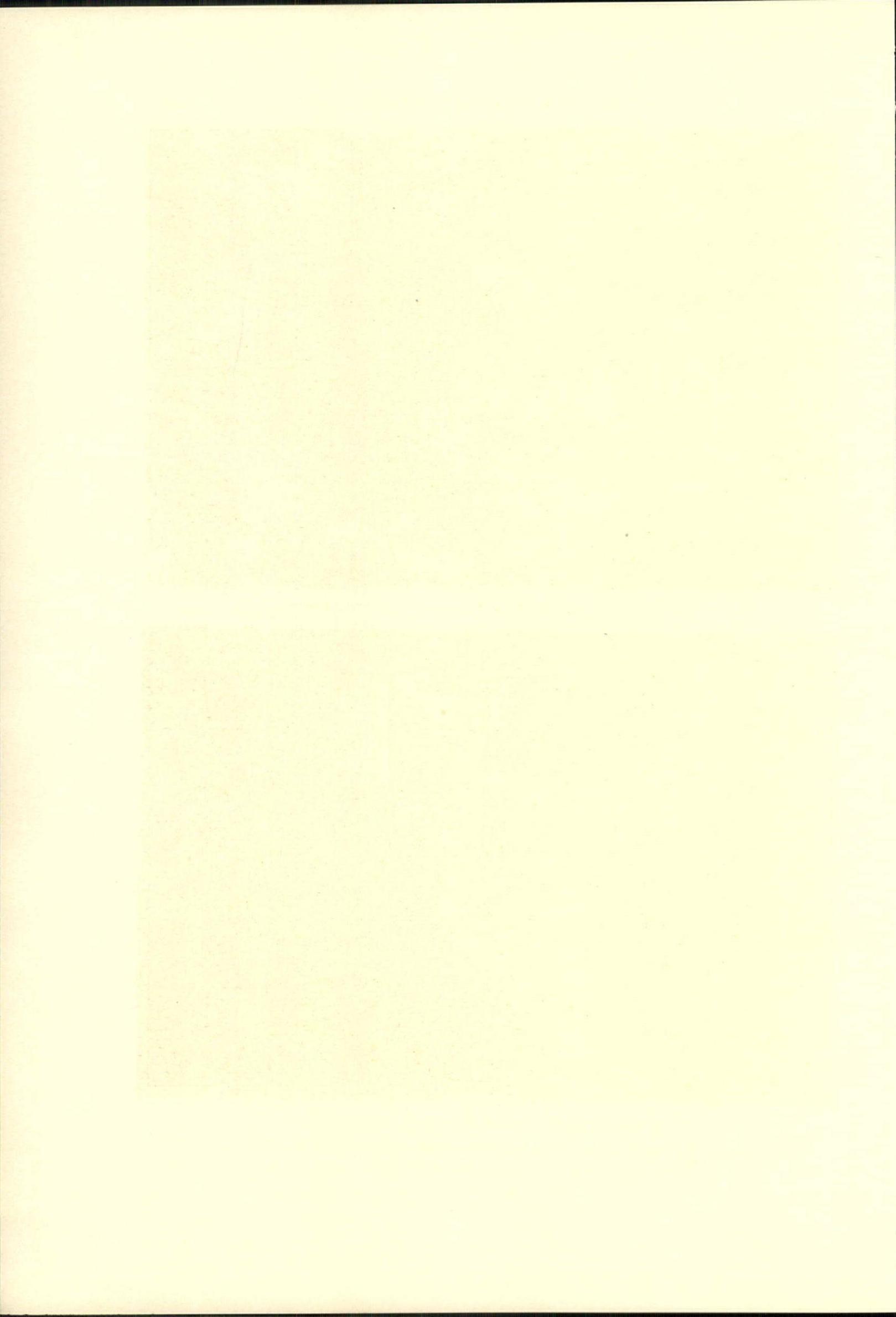


MAIN ENTRANCE, MONTGOMERY WARD MEMORIAL BUILDING  
MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.  
JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS





ENTRANCE CORRIDOR, MONTGOMERY WARD MEMORIAL BUILDING  
McKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.  
JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS





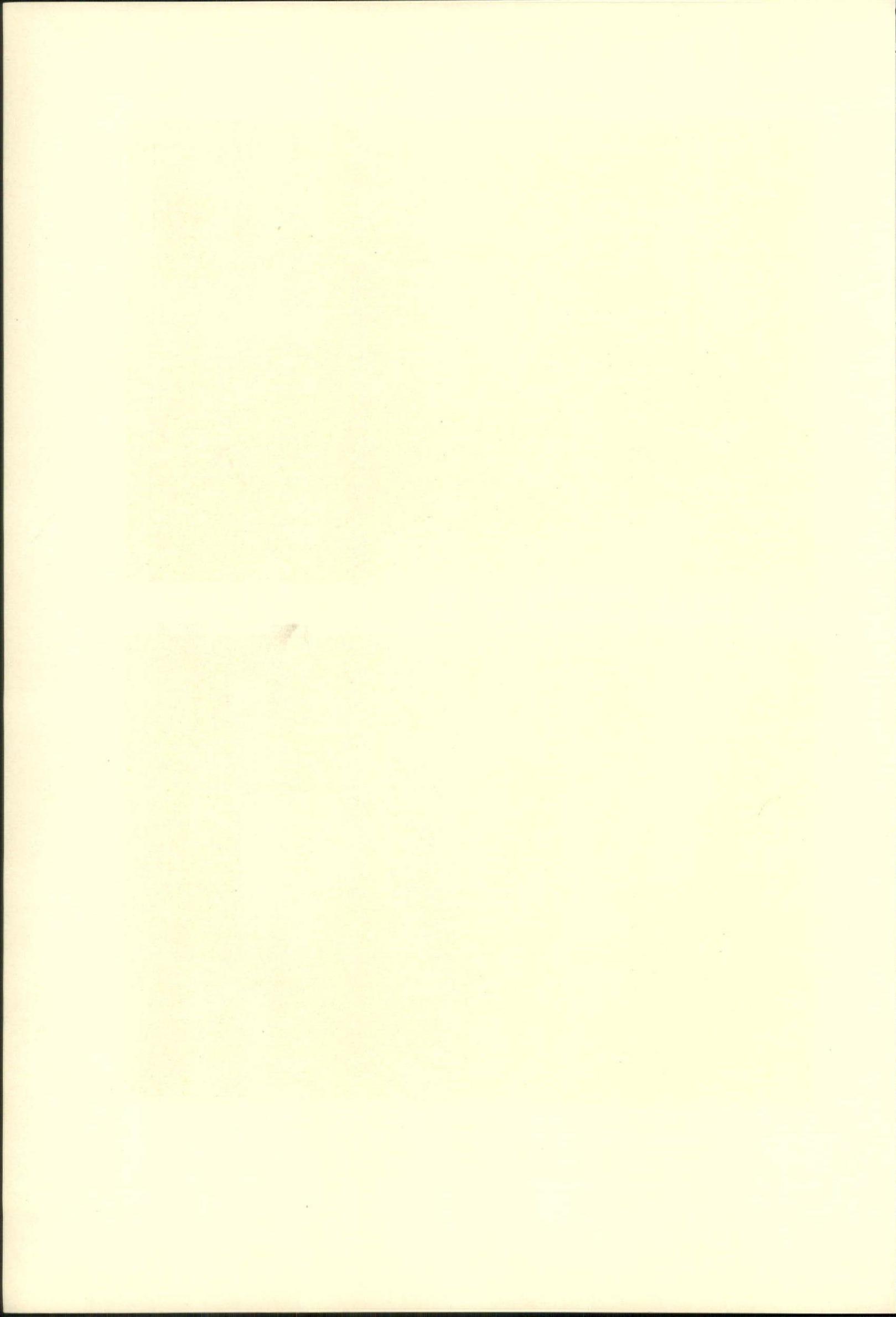
READING ROOM OF LIBRARY, WIEBOLDT HALL, SCHOOL OF COMMERCE

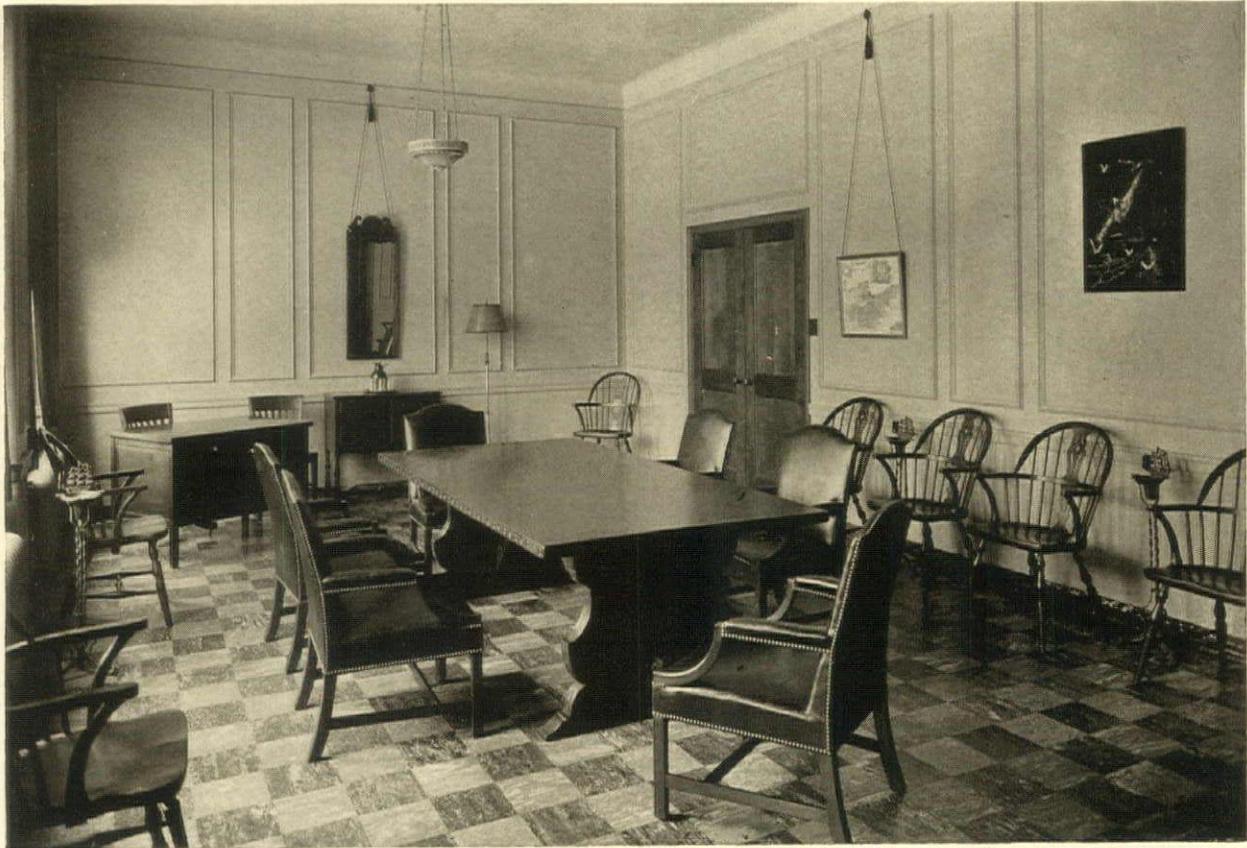


MEN'S CLUB ROOM, WIEBOLDT HALL, SCHOOL OF COMMERCE

MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.

JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS





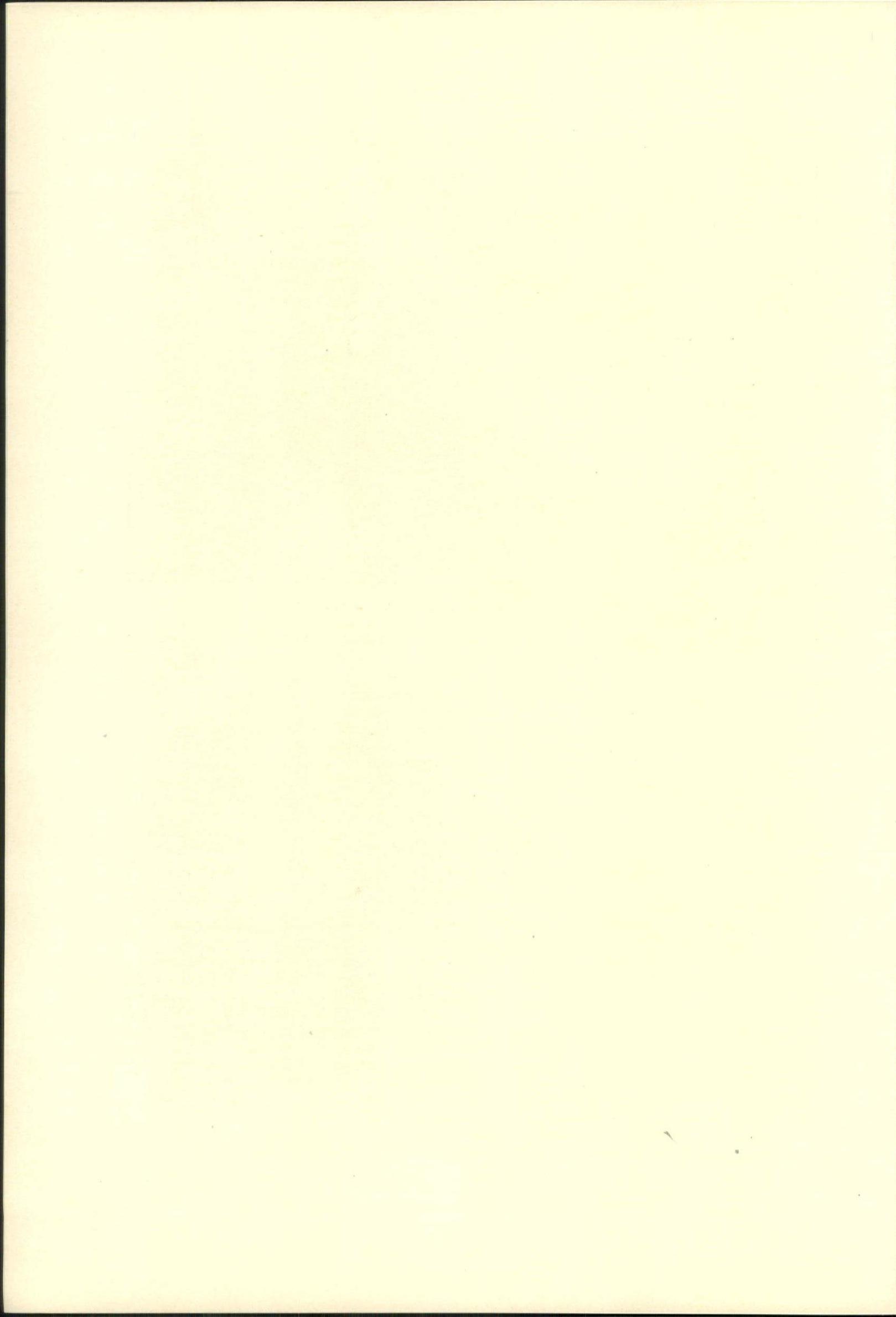
CONFERENCE ROOM, WIEBOLDT HALL, SCHOOL OF COMMERCE

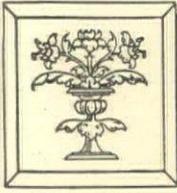


DEAN HEILMAN'S PRIVATE OFFICE, WIEBOLDT HALL, SCHOOL OF COMMERCE

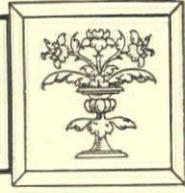
\*MCKINLOCK CAMPUS BUILDINGS, NORTHWESTERN UNIVERSITY, CHICAGO, ILL.

JAMES GAMBLE ROGERS AND CHILDS & SMITH, ASSOCIATED ARCHITECTS





## EDITORIAL COMMENT



THE report of the Committee of The American Institute of Architects on School Building Standards, recently issued, is a comprehensive document prepared by a group of men who have for years been known as the best exponents of school building design and plan. An investigation as to the relative merits of large and small schoolhouses has been in progress and it is the unanimous opinion of the Committee that efficiency in the use of money and efficiency in education are separate ideals; that while a greater economy to the taxpayer will result when larger buildings are adopted, the educational value of such buildings is not as large as where smaller units are the rule. "It may be," the report states, "that when the huge school fails to achieve its purpose, it is not chiefly due to its size, but because its proponents are more interested in the reduction of operating charges than in learning."

Expansion, it is believed, leads to difficulties in teaching and administration, and becomes in time not merely a greater handicap, but in effect new problems. Principals and teachers are, it appears, dismayed by the constantly increasing numbers of their pupils, and many are of the opinion that the size of a senior or junior high school should not exceed 1500 pupils, while a number believe the maximum should not be in excess of one thousand pupils.

The solution of this problem, it is believed, lies in the creation of a new plan, and not the inflation of a scheme which while at one time suiting its purpose, has now been clearly demonstrated to practical educators as obsolete and reaching to such cumbersome proportions as to warrant the most careful consideration of a newer method.

Naturally, if a school is to be a utilitarian and artistic success, there must, in the words of this committee report, be in its designer's mind a vivid realization of its meaning in the scheme of life. It is as important to our civilization, as was the Church to Europe in the twelfth century, that within the walls of our schoolhouses an effort should constantly be made to impart to the student a desire for knowledge and appreciation of the beautiful in art, literature and morals. When conceived in that spirit, continues the report, the school building becomes not merely an oratorical temple of learning. Architecturally it should be the outstanding example of learning in its community.

In the past there has been much discussion as to just how large a school room should be to accom-

modate a given number of pupils. While this, of course, is a vital consideration, the size of the school itself involves much more serious pedagogical and architectural questions.

In concluding its comprehensive report the Committee states that the tendency of the age in business enterprise is toward concentration of capital, men and machinery. The motive is to increase profits by lowering the cost of production. Following along this line, it is but natural for Boards of Education, composed in the main of business men, to pursue the trend of thought generally accepted as sound in business principle and to set up a parallel between the successful conduct of a business enterprise and the business administration of a school.

If the efforts of this Committee result in bringing these principles clearly before school boards, in making them see that there can be no practical results where educational methods are ruled by business principles, then it will have accomplished a much desired result. Undoubtedly teachers are almost unanimously of the opinion that the modern trend toward what the report designates as "jumbomania" tends to nullify their efforts.

Many architects in this country who have more largely worked on the problems surrounding the designing and planning of schoolhouses, will undoubtedly receive this report with a measure of surprise. It will tend to lead them into newer and broader considerations of schoolhouse problems. If they accept in the whole the report of this Committee, they will be confronted with the task of converting to this new and, we believe, more logical point of view, Boards of Education that for years have regarded the school building as purely a financial problem and not as a true temple of learning.

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ROYAL CORTISSOZ, in a paper recently read before the annual convention of the American Federation of Arts, in which he more particularly discussed our debt to the past, takes a look back over our architectural development. "What we owe to the past is a body of established ideals," says Mr. Cortissoz. As most of us today are apt to accept such ideals as part of the unwritten laws of our profession, it is well to follow the reasoning of a man so well trained in critical analysis and learn something of the personalities of the men whose work laid the foundations of these unwritten laws. The first man to whom he refers, whose influence was exceedingly valuable in the development of purity of

design, is Joseph M. Wells. This man, whom Mr. Cortissoz knew intimately in his youth, magnificently illustrated our debt to the past, in Cortissoz's own words. He was a disciple of fundamentals. The beauty of an old building meant to him, he says, good proportions, perfect balance of line and mass and above all restraint in decoration. What he finds in Wells' work that he so heartily commends, he also finds in other great men of architecture that have succeeded him.

Architecture in this country has leaned heavily on the past. Mr. Cortissoz does not overlook the crass copyist that has run wild in this country, but he rather chooses to look back at such men as Richardson, Hunt, Goodhue and Bacon, who were lovers of beauty and of the highest architectural laws. We have, unfortunately, in architecture, as we have in the allied arts, a certain tendency toward what is known as "modernism," often mistakenly called "originality." If we are to use the word modernism in its correct sense, we must apply it to the work of the master minds of architecture, who, taking the basic laws and the fundamentals of the past as their foundation, have evolved the master work that stands today. This being true, it is easy to see that the erratic minds that have created what they term the "modernistic" school of today, have appropriated a distinctive word that in no ways fits the awful extent of their transgressions. They regard the past as something that is, in a literal sense, departed, finished, filed and docketed; while the truth is, of course, that the past is a long series of continuing processes, dateless and eternal. The past should not discourage the present, but rather enlighten it and renew its power.

Summing up, Mr. Cortissoz concludes that our debt to the past lies in allowing us to feed our minds on beauty of line and proportion, thereby fertilizing our imaginations in the contemplation of noble things. We may draw from the past fundamental principles with which to adorn the present and express modern individuality.

MARKING the progress of the history of an invention from what at the outset was a scientific toy, later to become a daily necessity, it is interesting to

trace the sources from which light and heat are developed and how they have been harnessed to produce the power, today everywhere employed, and the extremes of cold as instanced in the recent development of modern refrigeration.

Ages ago, designated by geologists as the Carboniferous period, portions of the earth's vegetation died, fell into swampy areas, became covered with sediment, was subject to pressure and possibly heat, metamorphized, and formed large areas of carbon. In effect heat from the sun was stored away to be released ages later through a material, mined from the earth's crust, known as coal. This natural product and the process through which it came into being have ever been things to wonder at, for man has yet to find a means of storing the sun's heat and releasing it at will in quantities large or small and transporting it from place to place.

The sun's rays packed away in the coal mines were found to contain light as well as heat. Bituminous coal burned in retorts, produces a generous amount of gas commonly called illuminating gas. While the discovery of gas is recorded in early history, it was not put to practical use until the middle of the eighteenth century. Produced in quantity and piped under city streets, where thus available, it gradually replaced oil for illuminating purposes. With the development of electricity and the incandescent lamp, gas for lighting was generally displaced. In turn, gas largely because of its convenience, at first a luxury, became a necessity for the modern house to replace coal for cooking. The invention of the gas engine made this vapor an energy for producing power. With the development of an efficient boiler for burning gas owners found, and continue to find, it convenient to utilize the sun's rays in the form of gas to heat their buildings with gas fired boilers. Today we have the antithesis of heat from the sun's rays in the form of refrigerators chilled to icy temperature through the agency of a small gas flame.

If at present we have not yet found a way to make the sunshine provide the comforts and necessities of today or tomorrow, we have through modern inventive genius made the sunshine of ages ago conform to our needs of light and power, heat and cold.

BUILDINGS OF MODERATE COST  
FURTHER IMPRESSIONS OF AN ARCHITECT'S VISIT  
TO PEASANT FRANCE

BEING A SELECTION FROM A SERIES OF PHOTOGRAPHS  
MADE BY FRANK J. FORSTER,  
AND PRESENTED HERE TO SERVE AS MOTIVES FOR THE DESIGN OF  
BUILDINGS OF MODERATE COST



FARM BUILDING AT QUEVILLON, SEINE, INFERIEURE



FARM AT ST. LEGER SOUS BEUVRAY  
SAONE ET LOIRE



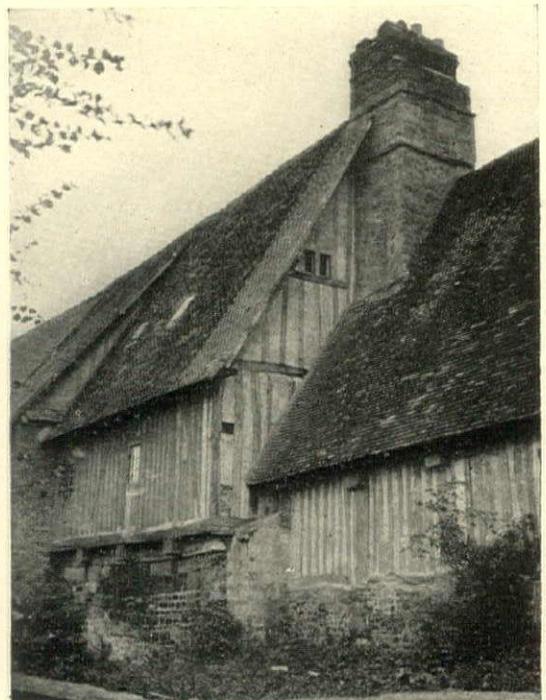
DETAIL OF FARM COTTAGE NEAR CAUDEBEC,  
SEINE, INFERIEURE



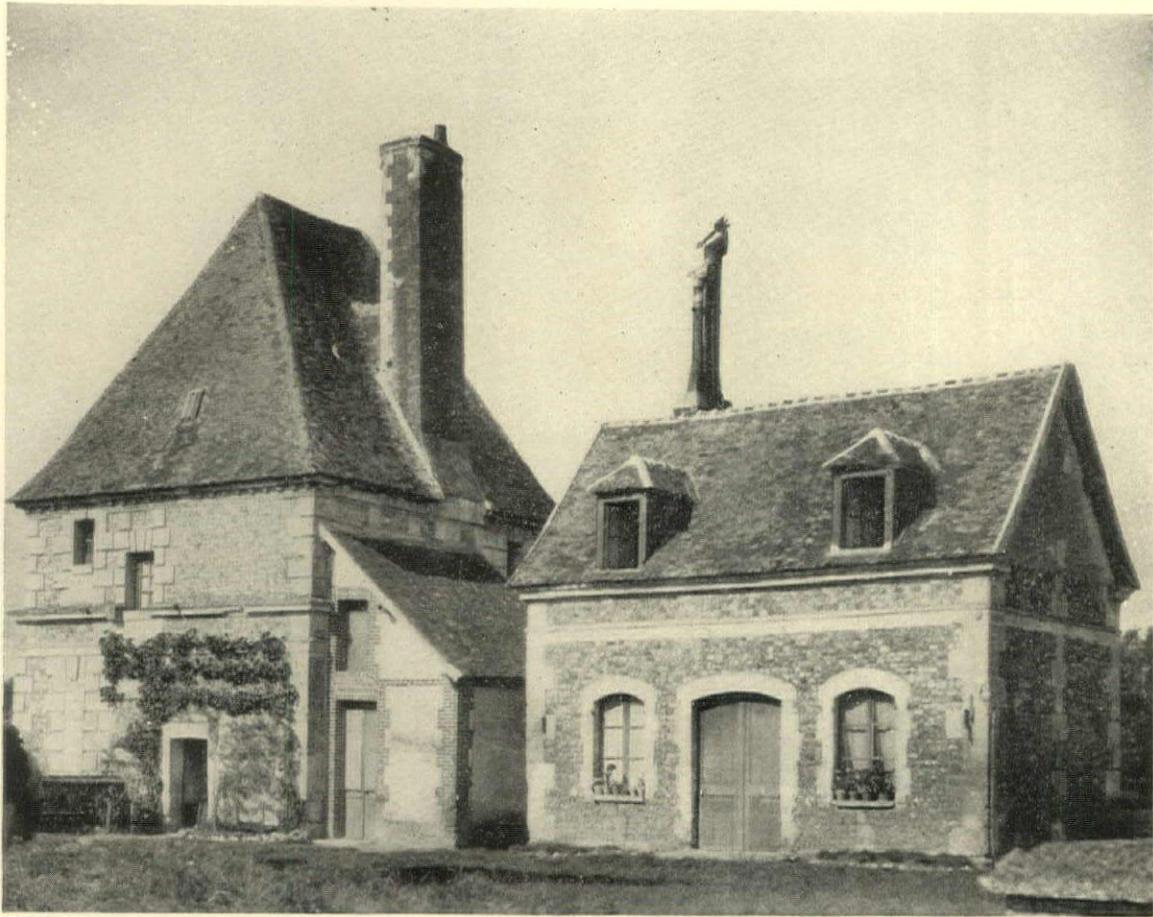
HOUSE AT ST. MARTIN DE MAILLOC, CALVADOS



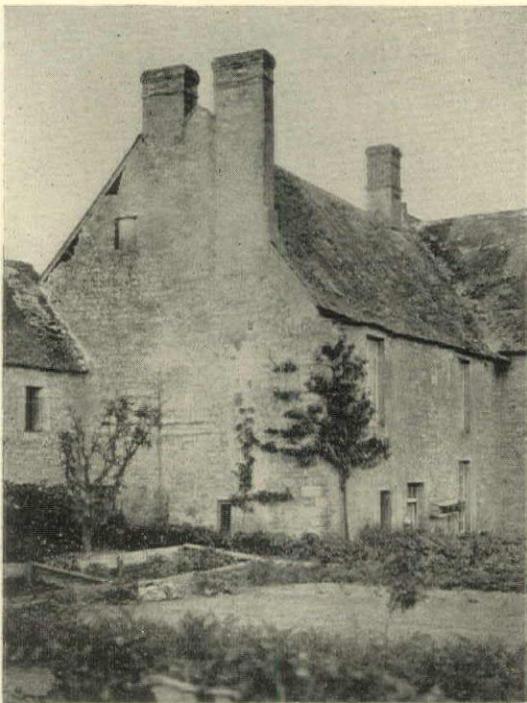
DETAIL OF FARM AT ST. LOUP DE FRIBOIS,  
CALVADOS



DETAIL OF FARM AT CANAPVILLE,  
CALVADOS



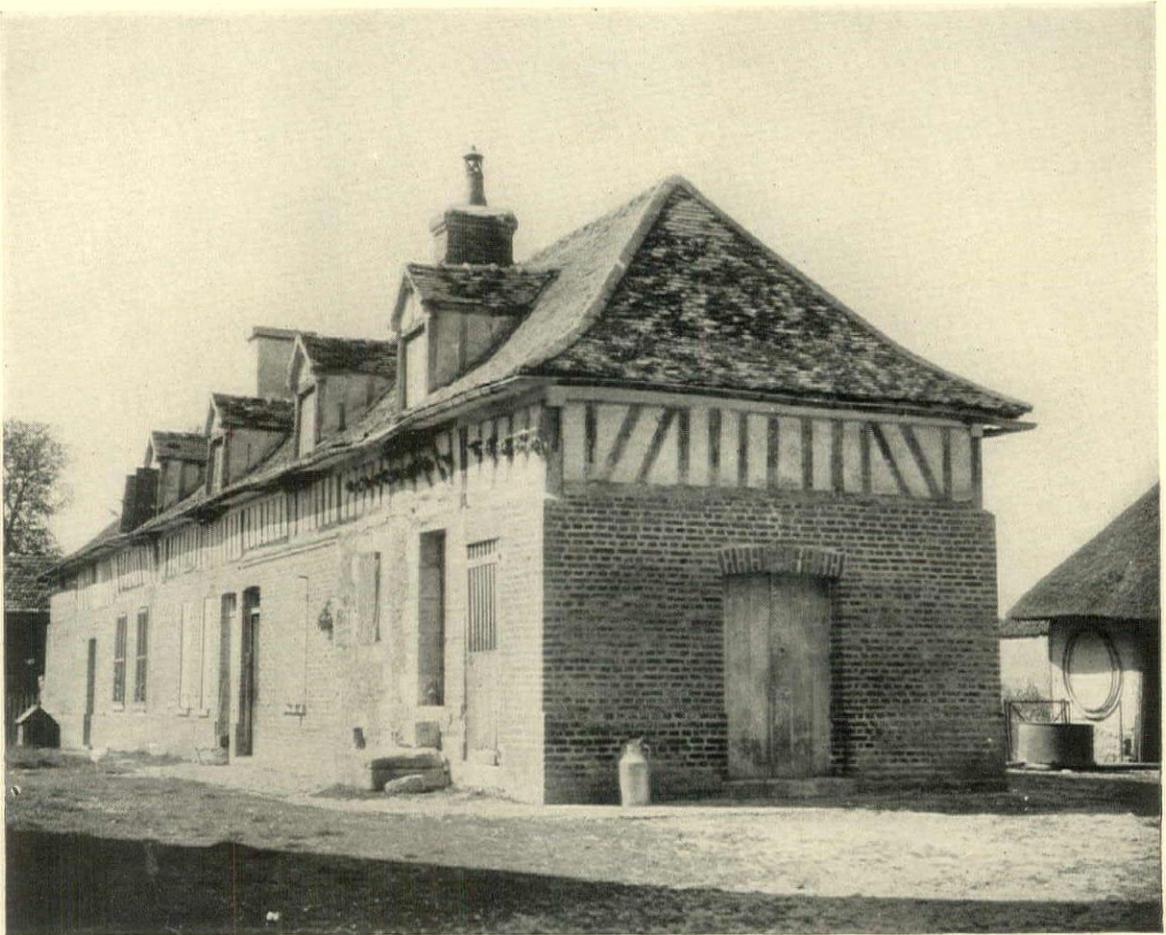
LE HOM, BEAUMONT LE ROGER, EURE



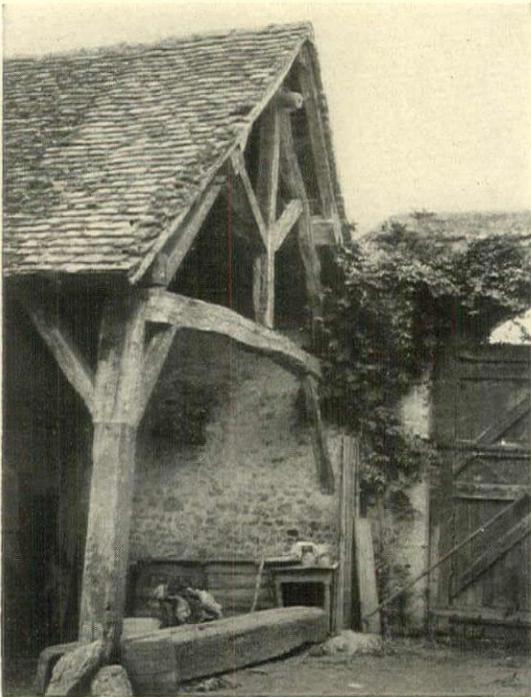
FARM AT BARBEVILLE, MANCHE



MENNETON SUR CHER, LOIR ET CHER



FARM HOUSE, AQUIGUY, EURE



SOUTH OF CHEVERNY, LOIR  
ET CHER



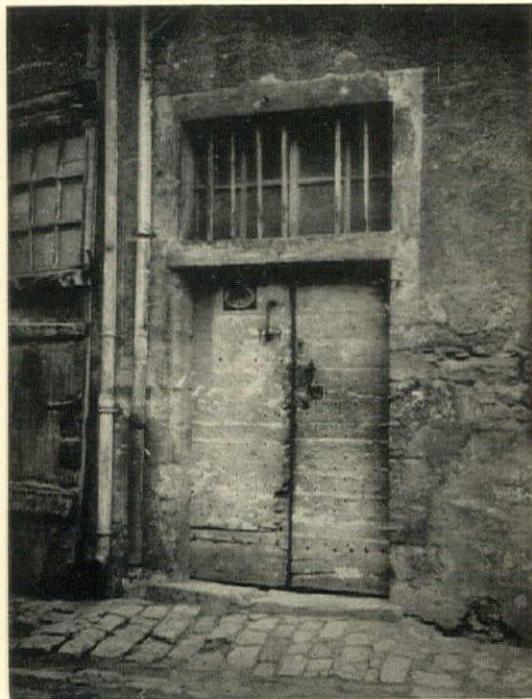
DETAIL, FARM HOUSE AT ST. MARTIN DE  
MAILLOC, CALVADOS



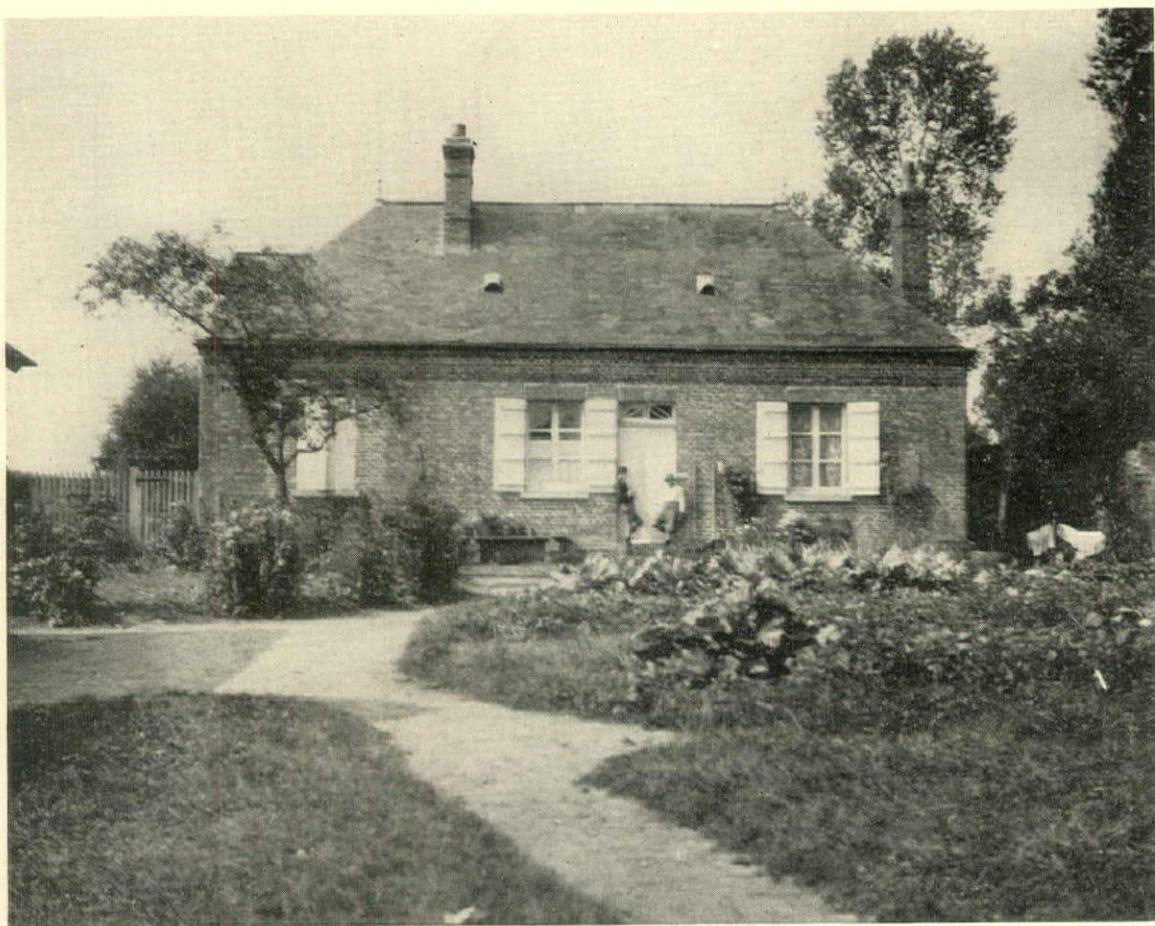
HOUSE NEAR ST. MARTIN, CALVADOS



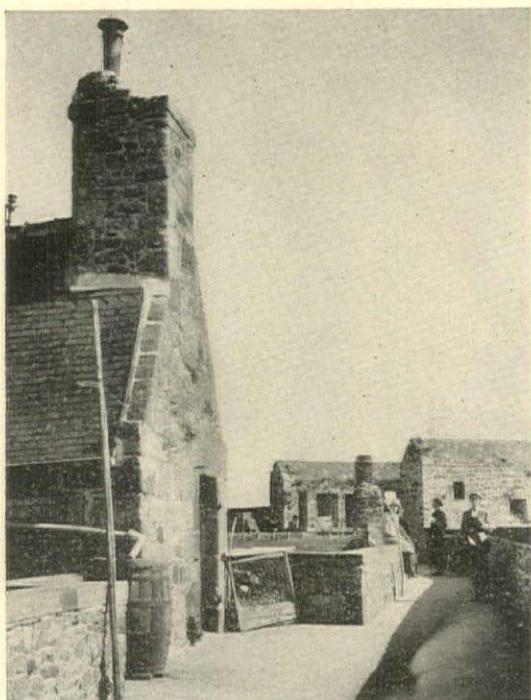
DETAIL AT MENNETON SUR CHER, LOIR ET CHER



MOULINS, ENGLBERT, NIEVRE



COTTAGE NEAR TOREY, SEINE, INFÉRIEURE



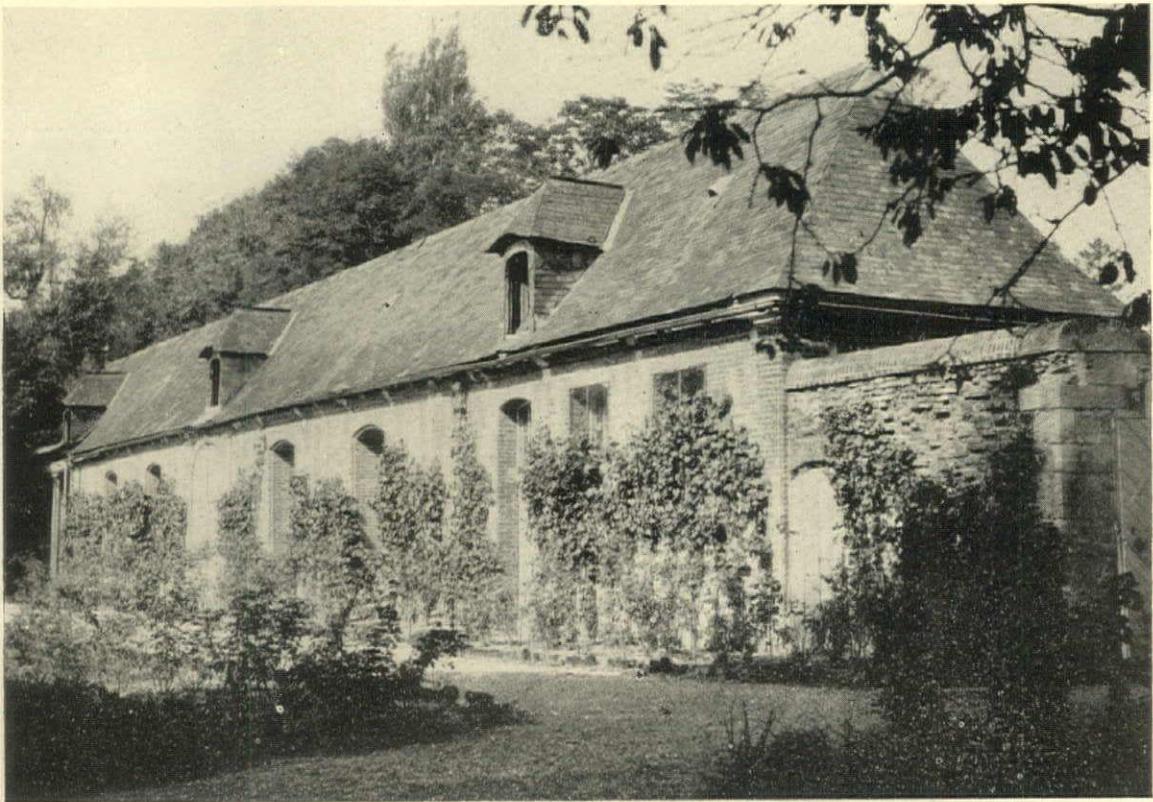
MONT ST. MICHEL, ILLE ET VILAINE



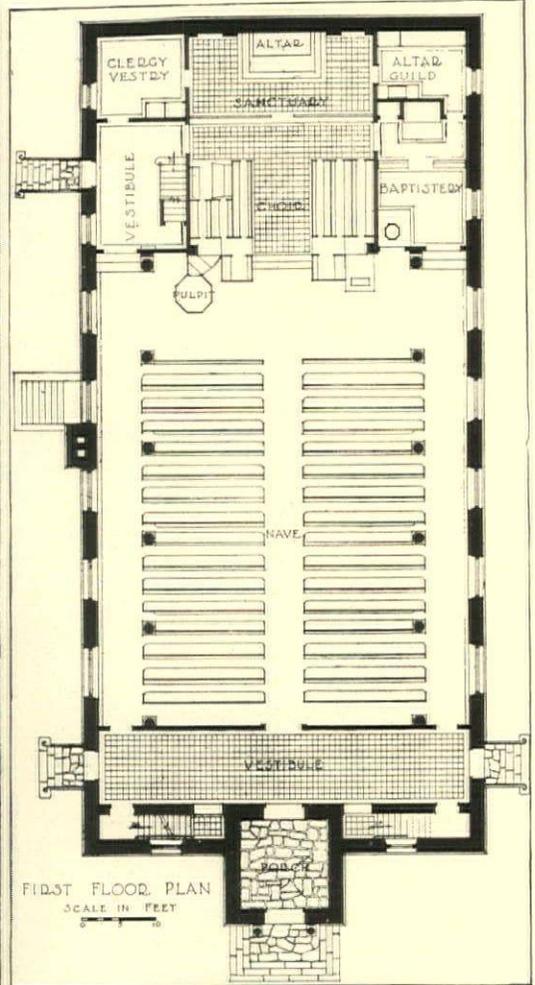
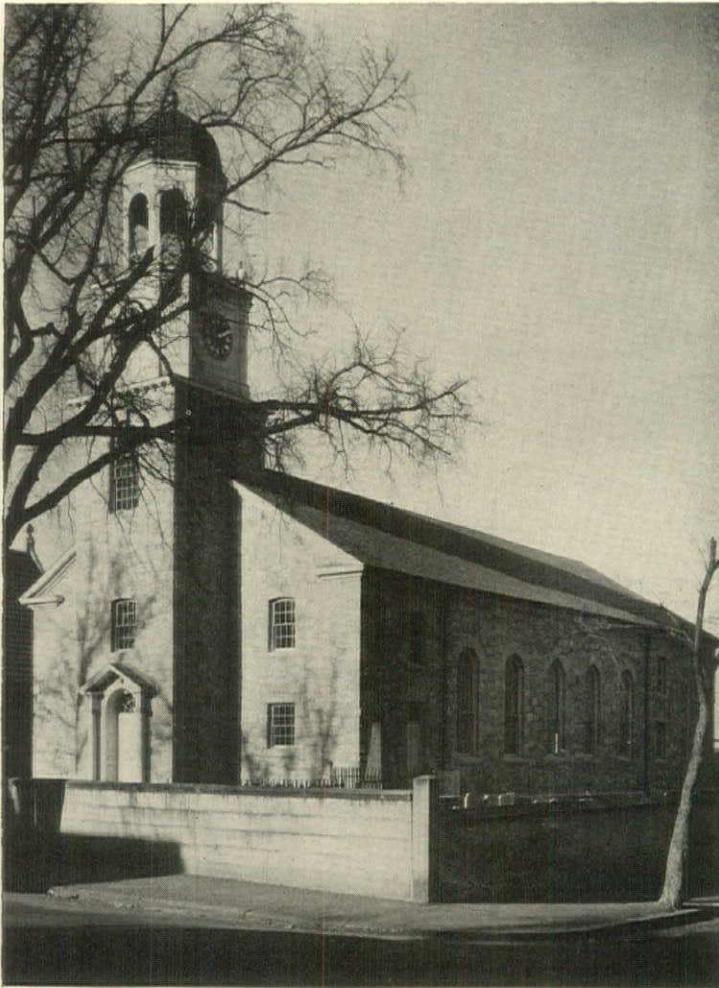
DETAIL AT LAUDEREAU, FINISTERRE



COTTAGE AT VINTS FOUQUET, SEINE, INFÉRIEURE



COTTAGE NEAR TOSTES, EURE



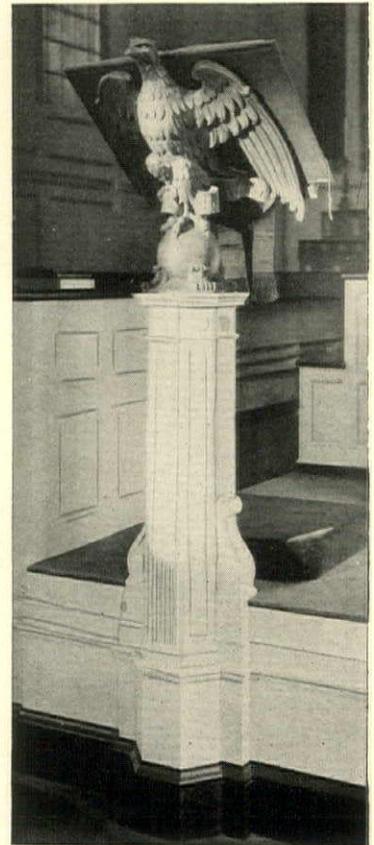
ST. PAUL'S CHURCH, NEWBURYPORT, MASS.

PERRY, SHAW & HEPBURN, ARCHITECTS

R. CLIPSTON STURGIS, CONSULTING ARCHITECT

THE CHURCH BUILDING IS CONSTRUCTED OF STONE, WITH A SLATE ROOF WITH PITCH WATERPROOFING. FLOORS ARE OF REINFORCED CONCRETE. PARTITIONS ARE OF WOOD STUDS, COVERED IN VARIOUS CASES WITH WOOD AND METAL LATH. THE SURFACES OF THE INTERIOR WALLS ARE FINISHED IN HARD WHITE PLASTER, PAINTED. THE FINISHED FLOOR IS TREATED VARIOUSLY. IN THE AISLES OF THE AUDITORIUM, TILE IS USED, WHILE INSIDE THE PEWS CARPET IS LAID. THE BASEMENT FLOOR IS OF CONCRETE AND THE FLOOR OF THE CHANCEL AND VESTIBULE IS OF MARBLE. TRIM IS OF WOOD. THE INTERIOR COLOR SCHEME IS CARRIED OUT IN THREE TONES OF FRENCH GRAY. HARDWARE OF COLONIAL PATTERN IS INSTALLED AND CATHEDRAL GLASS IS USED IN THE WOOD WINDOW FRAMES. THE BUILDING IS HEATED BY STEAM AND HOT AIR. ELECTRIC LIGHT IS INSTALLED THROUGHOUT THE BUILDING. BUILT IN 1922-23, THE CHURCH COST APPROXIMATELY

45 CENTS PER CUBIC FOOT



# INTERIOR ARCHITECTURE

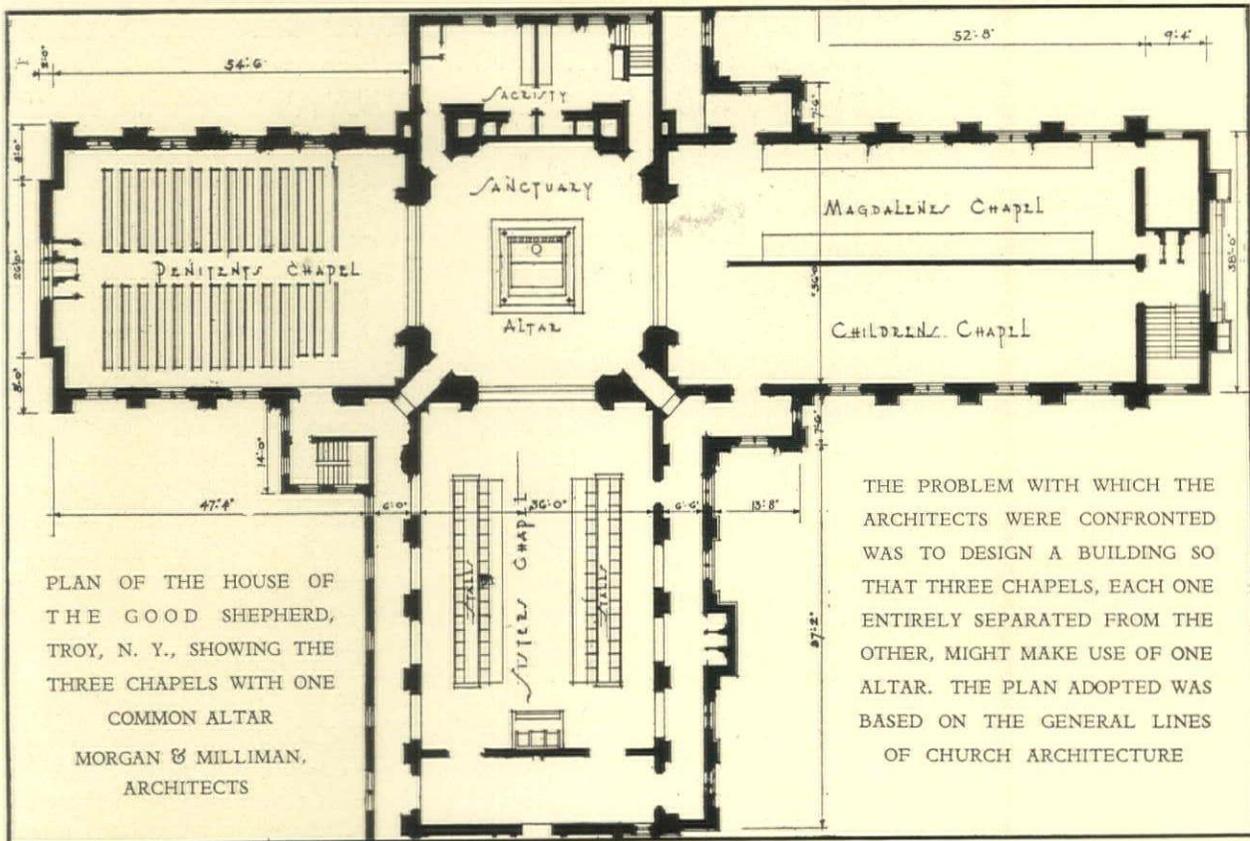
## ARCHITECTURAL ORNAMENT IN HAMMERED BRONZE

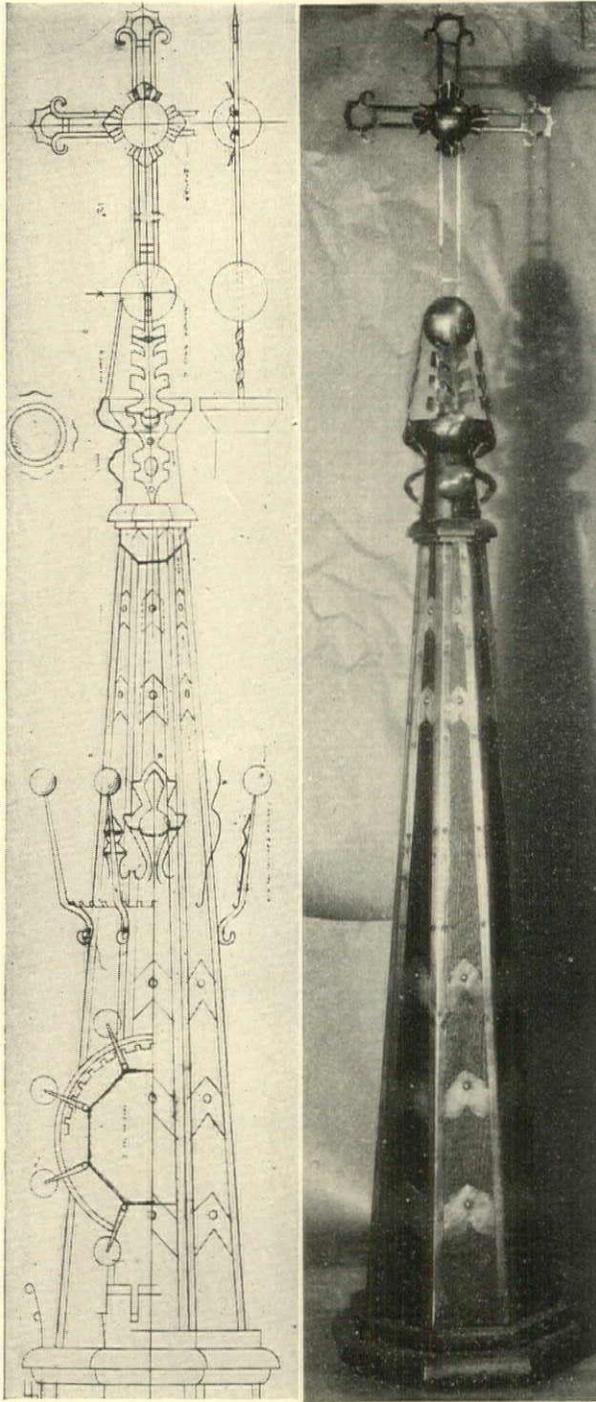
FEATURING THE DESIGN OF THE BALDACHINO IN THE HOUSE  
OF THE GOOD SHEPHERD, TROY, N. Y.

AN unusual problem confronted the architects of the chapel of the House of the Good Shepherd at Troy, N. Y., inasmuch as it was necessary to provide for three chapels—one each for the Sisters, the penitents, and the Magdalene girls and orphan children—each seemingly entirely apart from one another, yet all making use of the same altar. While the children and Magdalene girls appear to use the same chapel, they are in reality separated by a high screen, so that their privacy is retained. Morgan & Milliman, the architects, were successful in devising a plan, based on the idea of the cathedral, so that a chapel was located in either side of that portion which would normally be considered as the transept and the third in what would ordinarily be the nave, allowing for the placing of the altar at the crossing where it might be seen by all.

The problem of designing the altar presented the greatest difficulty, owing to the different angles from which an unbroken view had to be attained. Rambusch, the designers, were commissioned to execute this phase of the work, in co-operation with the architects. The baldachino type of altar was agreed upon as being most suitable, with three identical sides so that the view from all chapels might be the same. The baldachino was designed to serve, as it naturally should, as the central feature, introducing such emblems of the order as would lend themselves to decorative purposes, always considering those rules of the church which govern the design of such accessories.

The method of constructing the baldachino is unusual. Its material is wood, overlaid with hammered bronze as ornamentation. The bronze was hammered entirely by hand, after heating it to render it malleable. The method of giving form to the





DETAIL OF THE PINNACLE OR FLECHE OF THE BALDACHINO SHOWING THE WOODEN BASE OVERLAID IN HAMMERED BRONZE ORNAMENT. THE CROSS IS OF IRON AND IS BURNISHED IN GOLD. THE PINNACLE AND SURMOUNTING CROSS FORM THE CROWNING FEATURE OF THE BALDACHINO. NOTE THE FLICKERING LIGHT WHICH IS CAUGHT UP BY THE BRONZE IN BOTH HIGHLIGHT AND SHADOW, EFFECTING AN INTERESTING RESULT WHICH COULD NOT BE OTHERWISE ATTAINED

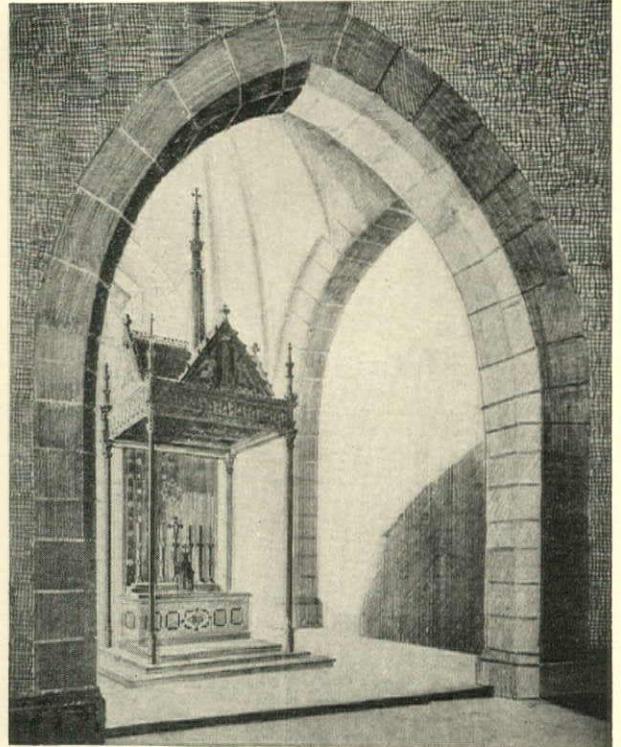
(The drawing at the left is from the detail by Rambusch)

metal is explained in the illustrations which accompany this article.

The center of interest in the baldachino is, perhaps, the central triangular panel above the cornice,

on each elevation, in which are introduced figures representing Our Lord the Good Shepherd and two adoring angels kneeling at either side. The figures are all hammered in bronze and applied to the wood background.

The columns and framework of the baldachino are of gilded oak, overlaid with hammered bronze decorative features. The soffit of the baldachino is



REPRODUCTION OF THE ORIGINAL SKETCH OF THE BALDACHINO. THE VIEW FROM ALL THREE CHAPELS IS IDENTICAL. THE ALTAR ITSELF FACES THE FRONT, BUT STEPS FROM THREE SIDES LEAD TO IT

(From the original sketch by Rambusch)

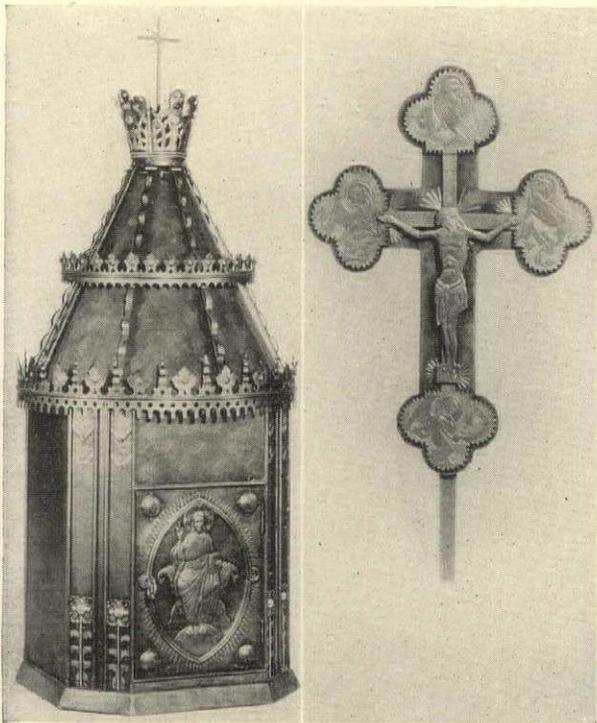
squared off into panels, each of which has been glazed in a deep blue and ornamented with a bronze rosette. The tabernacle and the candlesticks are of bronze, and the cross on the tower and the curtain holder are of wrought iron gilded.

The steps to the altar proper are of Eastman cream marble with inlays of sienna, verde antique and red verona. There are four dossals in all,—one red, one white, one purple and one green,—one color for each of the four church seasons. There are also four veils for the tabernacle. In the designing of the altar, the rubrics have been closely adhered to, guaranteeing a free and careful fulfilling of the ceremonies of the Mass.

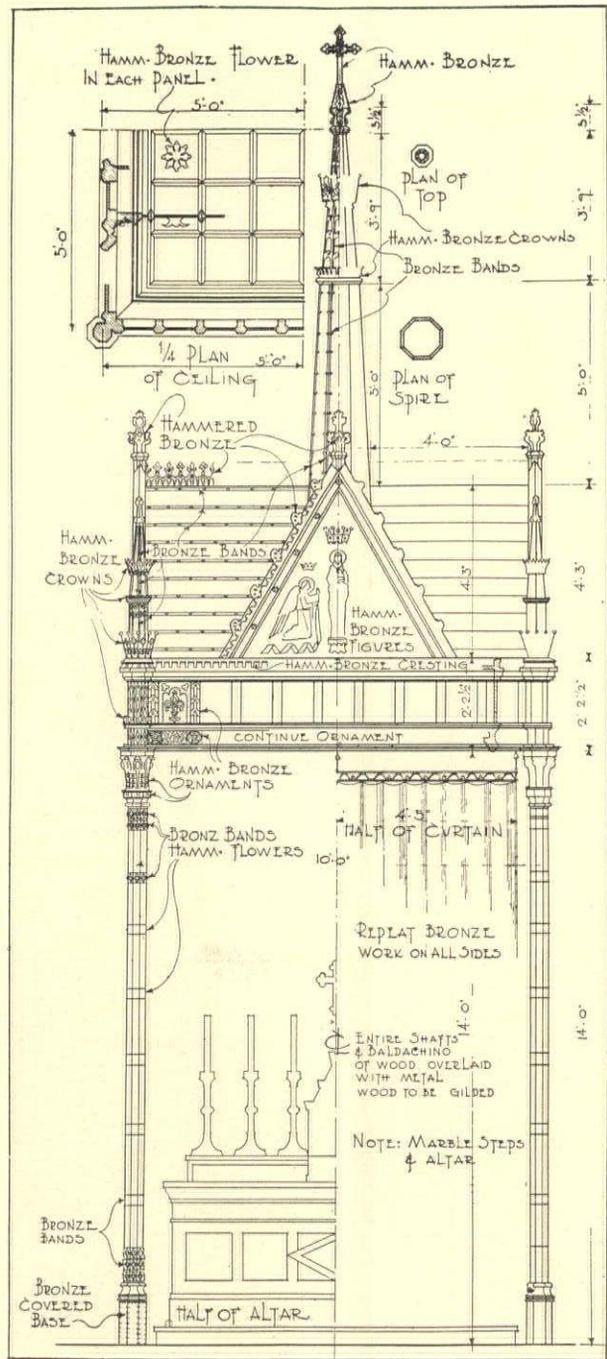
The architectural and decorative treatment of the three chapels is similar in every respect excepting only as to the furnishings, which are varied to suit different needs. The stalls for the nuns are placed in facing pairs, in accordance with the rites of their order, and the seating of the other chapels

is arranged to best fulfill the particular requirements.

The walls throughout are of rough mortar and have been treated in al secco in warm gray tones, which effectively emphasize the rich polychrome treatment of the timbered beams of the ceilings. The ceiling at the crossing, directly above the baldachino, has been richly decorated on a deep blue ground. The design of the ornamentation is of symbolic Gothic character. In direct contrast to the warm tones of its surroundings, the ornamental bronze of the baldachino has been finished in varying shades, running from bright yellow to deep reds. By this carefully studied treatment both as to color and form, the baldachino attains the prominence it was the intention to give to it, and also the undisputed interest its fine treatment deserves. The idea of applying hammered metal to a wood base is not a modern method of decoration for it can be traced to old medieval times. It is frequently observed in the work of Spanish and Italian craftsmen. The idea, however, has not generally been employed in this country and its adaptation here is therefore all the more interesting.

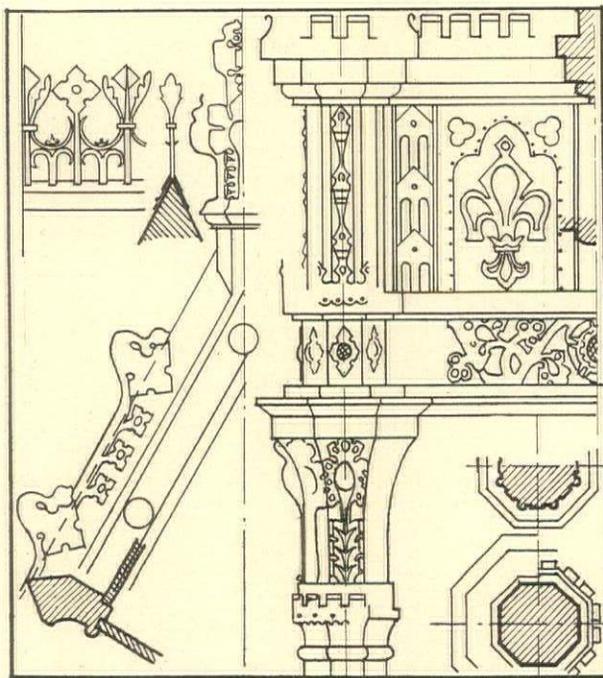


AT LEFT, THE RUBRICAL TABERNACLE OF HAMMERED BRONZE WHICH HOUSES A SAFE LINED WITH CEDAR WOOD, GILDED. AT RIGHT, THE HIGH ALTAR CRUCIFIX. THE BACK PLATE OF THE CRUCIFIX IS OF IRON. APPLIED TO THIS PLATE IS A BRONZE CROSS, CUT OUT OF ONE SHEET OF METAL. IN THE ORNAMENTAL FORMS, IN WHICH THE ENDS OF THE CROSS CULMINATE, ARE HAMMERED FIGURES OF THE FOUR EVANGELISTS. THE FIGURE OF CHRIST, ALSO HAMMERED IN BRONZE AND CUT OUT OF THE METAL IN SILHOUETTE, IS FINALLY APPLIED. AGAINST THE DARK RED BATIQUE DOSSAL, THE BRONZE TABERNACLE AND CRUCIFIX PRESENT AN EFFECTIVE SILHOUETTE. THE VARYING SHADES OF THE BRONZE HARMONIZE RATHER THAN CONTRAST WITH THE BACKGROUND



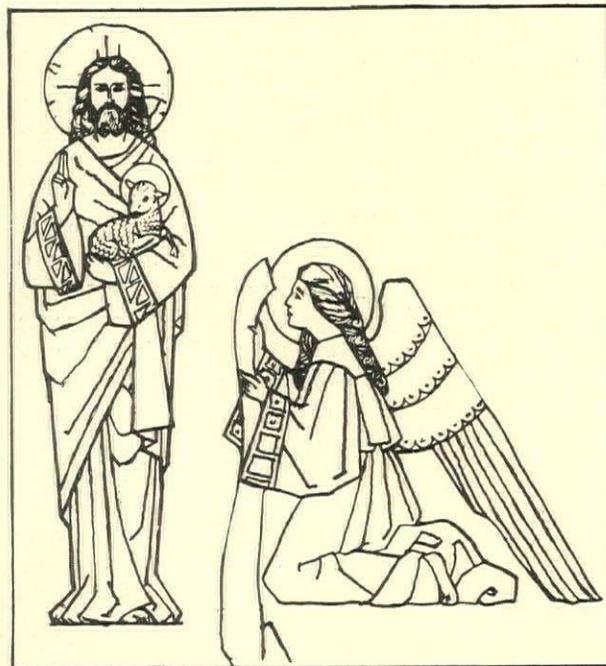
REPRODUCTION OF ELEVATION DRAWING TO SCALE OF THE BALDACHINO. THE BALDACHINO IS CONSTRUCTED OF WOOD ON WHICH HAMMERED BRONZE IS OVERLAID. ALL VISIBLE WOOD IS GILDED. VARIOUS EMBLEMS OF THE ORDER OF THE NUNS—SUCH AS THE LILY AND THE ROSE—HAVE BEEN SELECTED FOR REPEATING DECORATIVE FEATURES. THE THREE ELEVATIONS OF THE BALDACHINO ARE IDENTICAL, THE ONLY VARIATION BEING IN THE BRONZE FIGURES IN THE CENTRAL TRIANGULAR PANELS WHICH SURMOUNT THE CORNICE. THE SOFFIT OF THE BALDACHINO IS SQUARED OFF INTO PANELS EACH ONE OF WHICH HAS BEEN GLAZED A DEEP BLUE AND ORNAMENTED WITH A BRONZE ROSETTE. THE CANDLESTICKS ARE ALSO OF BRONZE, WHILE THE CROSS ON THE TOWER AND THE CURTAIN HOLDER ARE OF WROUGHT IRON GILDED. THE DOSSAL IS A BATIQUE. INDIVIDUALITY IN THE DESIGN IS ATTAINED BY ITS SYMBOLIC CHARACTER, WHILE IN ITS STYLE IT SUGGESTS THE GOTHIC

(From the scale drawing by Rambusch)



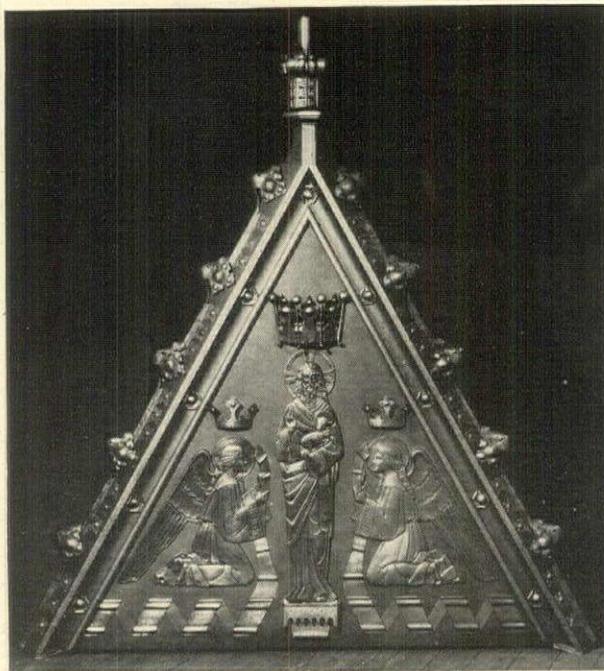
DETAIL DRAWING OF THE COLUMN CAPS, FRIEZE AND CRESTING OF THE BALDACHINO, SHOWING THE DESIGN OF THE HAMMERED BRONZE ORNAMENT WHICH IS APPLIED TO THE WOOD CONSTRUCTION. AT THE LEFT IS THE ORNAMENTAL MEMBER WHICH SURROUNDS THE TRIANGULAR PANELS, A PHOTOGRAPH OF ONE OF WHICH IS SHOWN DIRECTLY BELOW

(From the detail drawing by Rambusch)



REPRODUCTION OF THE DETAIL DRAWING OF THE FIGURES IN THE CENTRAL TRIANGULAR PANELS OF THE BALDACHINO. THE STANDING FIGURE REPRESENTS OUR LORD THE GOOD SHEPHERD, AND AT EITHER SIDE ARE TWO KNEELING FIGURES, REPRESENTING ADORING ANGELS. THE FIGURES ARE HAMMERED IN BRONZE AND CUT OUT IN SILHOUETTE

(From the detail drawing by Rambusch)



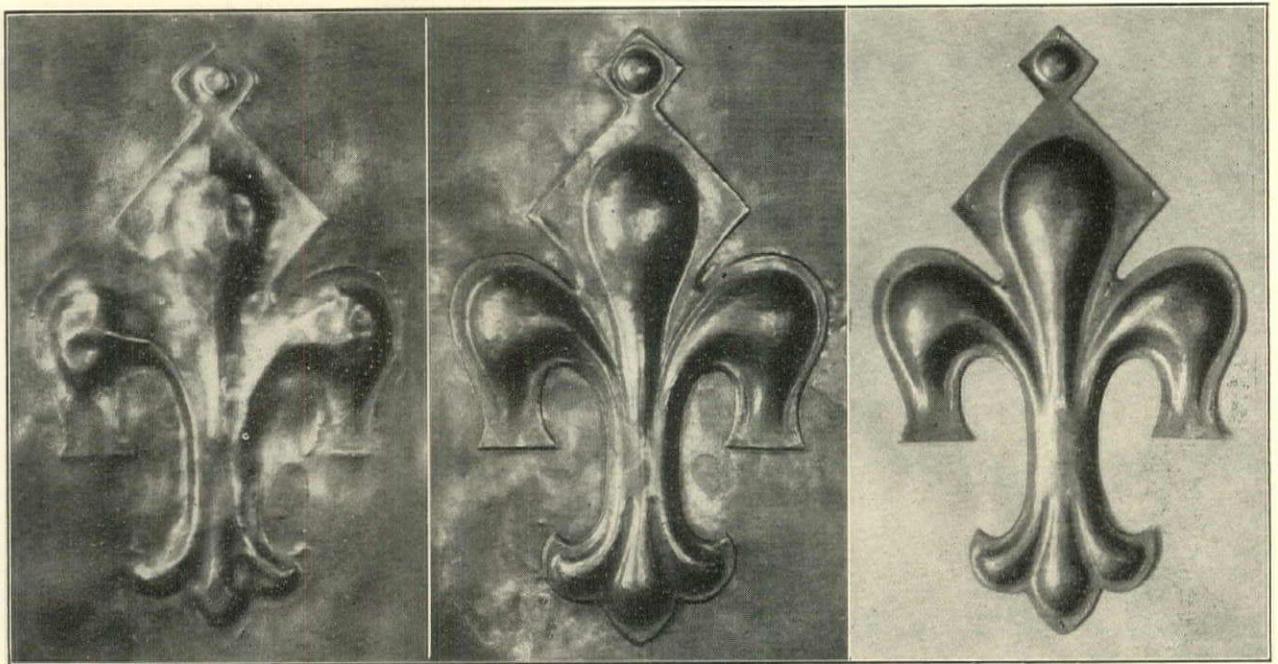
THE TRIANGULAR CENTRAL PANEL ON EACH ELEVATION REPRESENTS OUR LORD THE GOOD SHEPHERD AND TWO ADORING ANGELS. THE FIGURES ARE HAMMERED IN BRONZE AND APPLIED TO THE WOOD BACKGROUND. THE DRAWING AND ALSO THE EXECUTION OF THE METAL FIGURES AND OTHER ORNAMENTS CALL AND ALLOW FOR A SHEET METAL TREATMENT WHICH IS VERY DIFFERENT IN EFFECT FROM CAST WORK



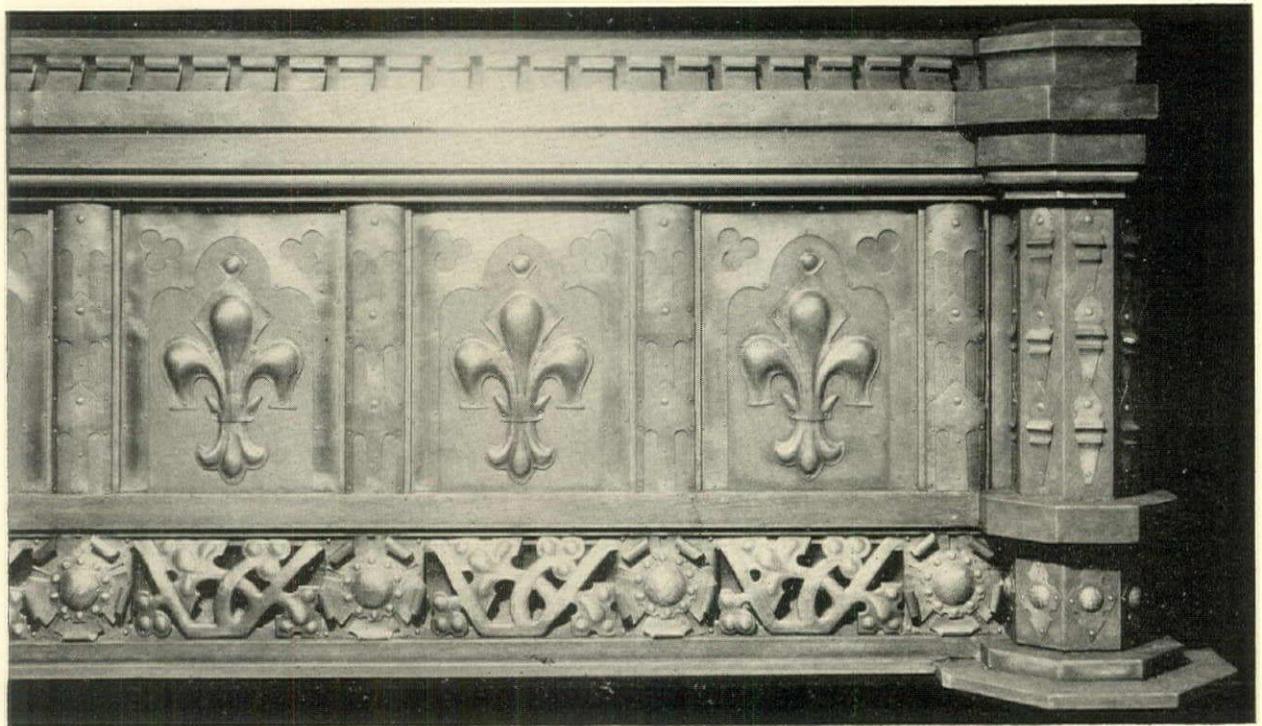
ONE OF THE FIGURES OF ADORING ANGELS HAMMERED IN BRONZE READY FOR APPLICATION TO THE WOOD. THE FIGURE IS SHOWN HERE CUT AWAY FROM THE BRONZE BACKGROUND. THE HAMMERED BRONZE WORK IS OF A HAND DRIVEN REPOUSSE CHARACTER. IT IS INTERESTING TO NOTE THE SCALE OF THE DETAILS. ALL METAL HAS SCALE AND IT IS THE DUTY OF THE DESIGNER TO CONSIDER THAT SCALE



THE BALDACHINO AS SEEN FROM SISTERS' CHAPEL, HOUSE OF THE GOOD SHEPHERD, TROY, N. Y.  
MORGAN & MILLIMAN, ARCHITECTS—RAMBUSCH, DECORATORS



THE PROCESS OF HAMMERING BRONZE INTO ORNAMENTAL FORMS BEGINS BY TRACING THE DESIGN ON THE BACK OF THE SHEET METAL. WITH THE SHEET METAL LAID OVER A SAND BAG, THE DESIGN IS HAMMERED UP ROUGHLY. A PREPARED TAR IS THEN POURED INTO THE HAMMERED SURFACE, AND THE DESIGN IS THEN WORKED UP IN DETAIL FROM THE FRONT. THE FIGURE AT THE EXTREME LEFT SHOWS THE DESIGN ROUGHED IN OVER THE SAND BAG. IN THE CENTER FIGURE, THE DESIGN IS BEING FINISHED OVER THE TAR. THE FIGURE AT THE EXTREME RIGHT SHOWS THE ORNAMENT CUT AWAY FROM THE BACKGROUND, READY FOR APPLICATION TO THE WOOD



THE FRIEZE OF THE BALDACHINO SHOWING THE ORNAMENTAL FLEUR DE LIS, ILLUSTRATED IN PROCESS OF DEVELOPMENT ABOVE, APPLIED TO THE WOOD. THERE ARE CERTAIN LIMITATIONS PUT ON THE DESIGN OF HAND HAMMERED BRONZE ORNAMENT. IT IS DUE TO THESE LIMITATIONS THAT THE DISTINCTION BETWEEN HAND WROUGHT AND CAST ORNAMENT IS DRAWN. IT IS FURTHER DUE TO THESE LIMITATIONS AND A KNOWLEDGE OF THEM THAT HAND HAMMERED ORNAMENT POSSESSES INDIVIDUALITY. ORNAMENT IS RIGHTFULLY AN EXPRESSION OF INDIVIDUALITY IN TERMS OF THE MATERIAL IN WHICH IT TAKES FORM. IN THIS CASE, INTEREST IS DUE TO THE FACT THAT THE BRONZE HAS BEEN GIVEN A SHAPE SIMILAR TO THAT OF A FLEUR DE LIS: NOT THAT THE CRAFTSMAN HAS ACCURATELY PRODUCED A FLEUR DE LIS IN BRONZE



## ENGINEERING AND CONSTRUCTION



### THE NEW GENERAL MOTORS BUILDING, NEW YORK CITY

SHREVE AND LAMB, *Architects*

THE new General Motors Building, occupying the block bounded by Broadway, 58th Street, Eighth Avenue and 57th Street, New York, which was completed ready for occupancy on May 1st of this year, is the result of an unusual combination of economic planning, engineering and architectural design on the part of the architects and engineers, and well organized and efficient handling by the contractors' organization.

The low building previously occupying the site was erected about five years ago and consisted of three stories and basement with a center court extending through the two upper stories. Most of the street floor and basement was under long-term lease to various motor car companies as sales and show rooms, while the upper floors were occupied and used as offices.

The steel columns and footings, however, were designed for 22 additional stories based on a plan which, above the third floor, took a "U" shape with the court opening to Eighth Avenue, and

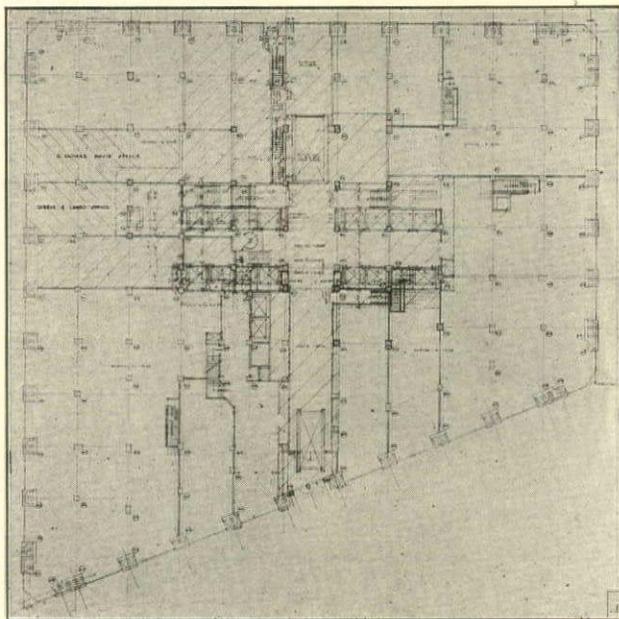
contemplated the construction of a theatre within the "U" at the base of the court. When the Broadway Motors Building Corporation secured the property, the theatre scheme was abandoned. The architects were confronted with the problem of planning 22 additional stories of offices with all the attendant utilities over an existing occupied structure, restricted by construction provided for the contemplated theatre and with the added handicap of tenants who might not be unreasonably disturbed by the new construction work.

A careful economic analysis showed conclusively that a "U" shaped plan would not yield in rentable area the percentage which should be developed on this site. The architects, therefore, recommended that the new structure be in the form of an "H," even though the change entailed the placing of twelve new columns, the reinforcement of eight existing columns, the replacing of seven other existing columns, together with difficult and expensive shoring operations, and complicated founda-



COLONNADE BUILDING, NEW YORK CITY, A THREE STORY BUILDING ERECTED IN 1922 AND WHICH FORMED THE BASE OF THE NEW GENERAL MOTORS BUILDING

FRANCISCO AND JACOBUS, ARCHITECTS—WELLES BOSWORTH, CONSULTING ARCHITECT



EXISTING AND NEW GROUND FLOOR PLANS COMBINED

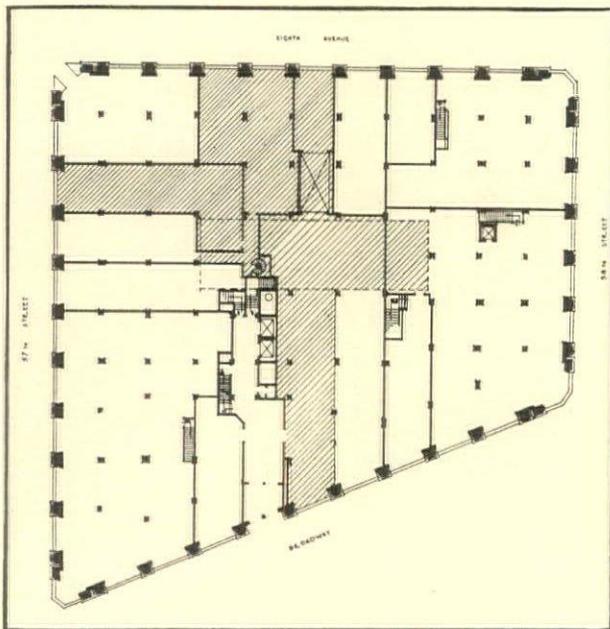
tion work to support the new altered steel. The typical floor plan, with all the utilities in the center, illustrates the economy of the "H" plan. Above the setback, which occurs at the 18th floor, the advantage and value of this type of plan are even more clearly demonstrated.

On the accompanying plan showing the new ground floor plan overlaying the old, it will be seen that in the new plan the existing elevators could be maintained until the new elevators were ready to operate. This made it possible to carry on the work and still leave all of the important tenants in possession of their space—a very important con-

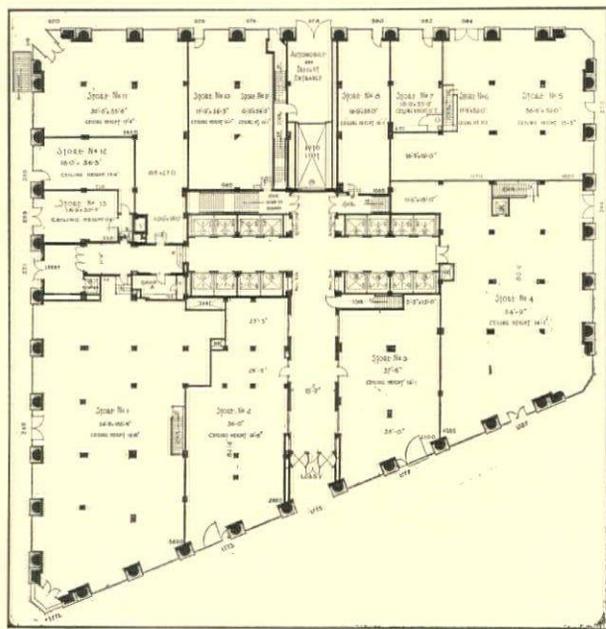
sideration, in view of the fact that it meant an uninterrupted income of \$300,000 a year.

The plan of the existing ground floor indicates by cross-hatching the unoccupied areas used for contractors' working spaces. The engineering and construction problems were rendered more difficult because of the tenants. The used-car show rooms in the basement demanded the uninterrupted use of an automobile lift to the street floor. As the existing lift was required for construction purposes, a new temporary lift was installed in the space allotted to the new Broadway entrance. In several cases, column footings extending under occupied areas and under an automobile turntable required enlarging or replacing. The basement floor was shored and timbered, while the workmen drilled and excavated below. Wherever columns had to be replaced, or existing column footings enlarged, girders and beams had to be shored and supported throughout all stories. Structural alterations in tenanted areas were accomplished with minimum interference by constructing temporary wall board enclosures around columns as necessary. These enclosures were painted, prepared for erection, and set up at night so that at no time was the conduct of business hindered by workmen. As soon as the work required on any existing column was completed, the temporary enclosure was removed. It was essential that the interior be protected from roof water while alterations were in progress. Removable boxes covered with waterproof paper were built to fit over the column stubs projecting through the roof and over any small opening required in the existing roof.

Columns requiring strengthening were enclosed with reinforced concrete, after removal of the fire-



PLAN OF EXISTING GROUND FLOOR

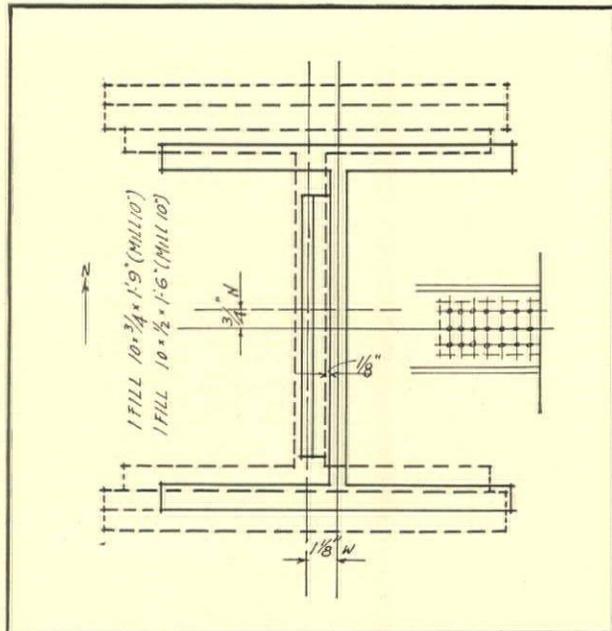


PLAN OF NEW GROUND FLOOR

proofing, and the columns provided with new or increased footings. Where new columns were required, existing beam and girder connections were burned off and, after placing new columns, extended connections were provided.

While the shoring and reinforcing operations were proceeding, the new steel of the superstructure was being fabricated, based on a design accepting centers given on the old erection drawings, even though a careful checking and survey had shown that the location of existing columns varied considerably in some cases from the position fixed by the dimensions on the original drawings. This resulted in a displaced bearing for new columns at these points, which was overcome by a careful calculation of the area in bearing and the addition of sufficient plates to produce the required area, the full column load being developed through the splice plates and rivets without dependence on butt bearing of the members.

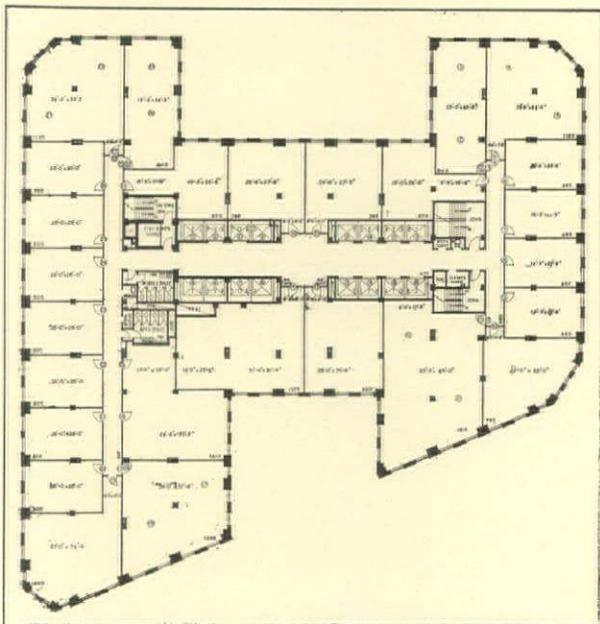
Lange and Noska were the consulting engineers on the steelwork. The efficiency of the builders' organization, the G. Richard Davis and Company, Inc., will be appreciated when it is stated that starting with a three-story structure in 1926, the finished structure, as shown, with a total rentable area of 550,000 square feet, was ready for occupancy on May 1, 1927, including many special features required by the General Motors Company, who leased the fourteen upper floors, comprising an area of 225,000 square feet. It is of special note, and to the credit of all concerned, that the finished structure was carried out precisely as shown by the first sketches of the architects, and completed in the required time and within the estimated cost. Close co-operation was responsible for this achievement.



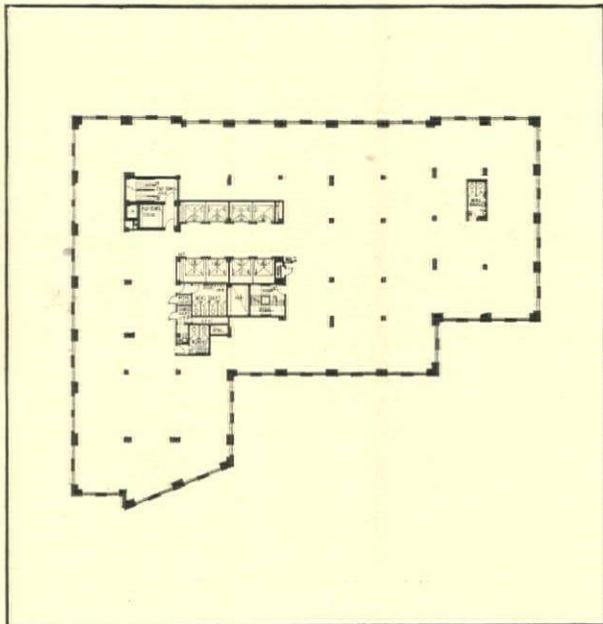
DETAIL OF NEW AND EXISTING COLUMN CONNECTION

OLD LONDON RELICS SAVED

WHAT is presumed to have been an American offer to purchase another piece of Old London has been refused. Grosvenor House, formerly the residence of the Duke of Westminster, is being pulled down and its historic eighteenth century gates, which are described as "wonderful filigree work such as cannot be reproduced today," have been removed. A big offer for these valuable gates was made to the agents of the estate on the understanding that they were to be taken abroad, but the owner declines to permit them to leave England.



PLAN OF FIFTH TO TWELFTH FLOORS



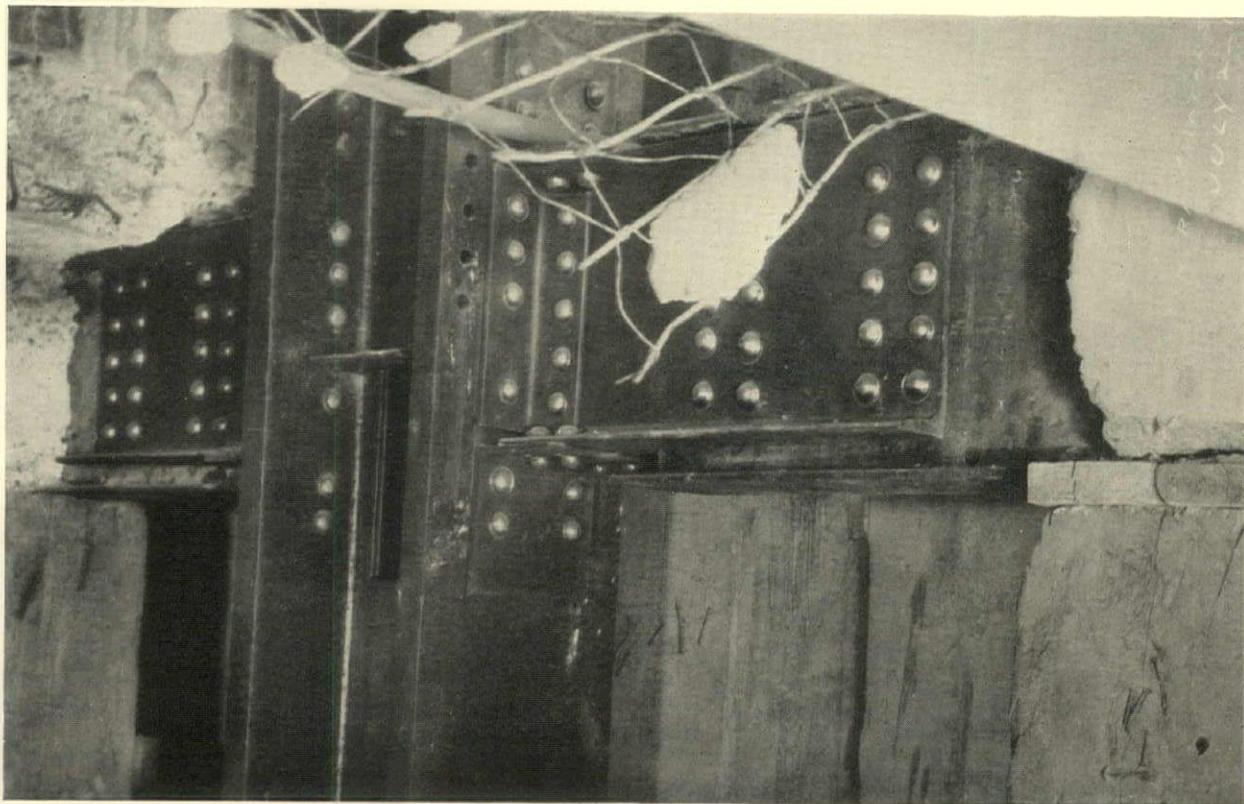
PLAN OF TWENTY-THIRD FLOOR



ROOF OF COLONNADE BUILDING SHOWING COURT OPENED FOR CONSTRUCTION. NOTE WATERPROOF BOXES OVER COLUMN STUBS TO PROTECT LOWER STORIES FROM THE WEATHER



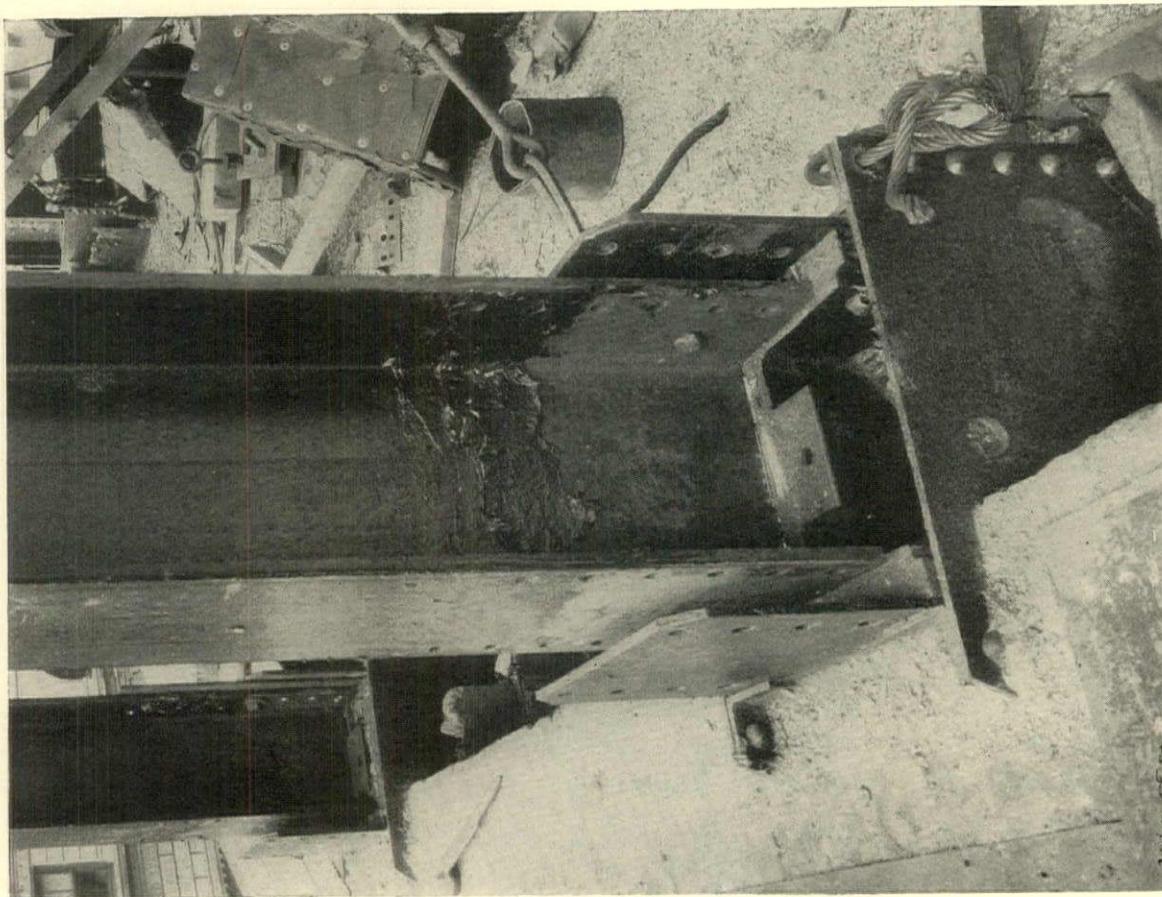
SHORING GIRDERS AND BEAMS IN BASEMENT TO PERMIT EXCAVATING FOR NEW FOOTING UNDER EXISTING COLUMN



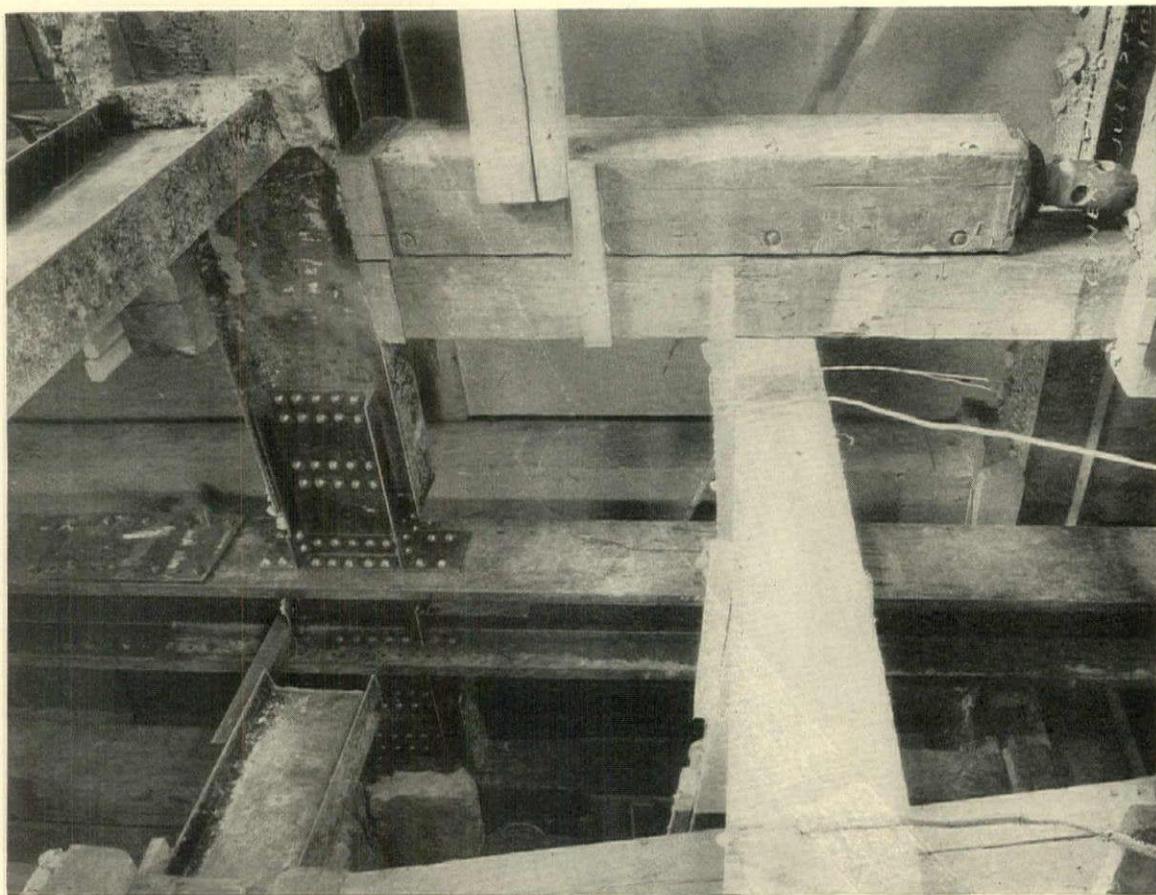
DETAIL OF NEW CONNECTION BETWEEN EXISTING BEAMS AND NEW COLUMN. EXISTING BEAMS WERE CUT OFF AND CHANNEL EXTENSION CONNECTIONS RIVETED ON EITHER SIDE



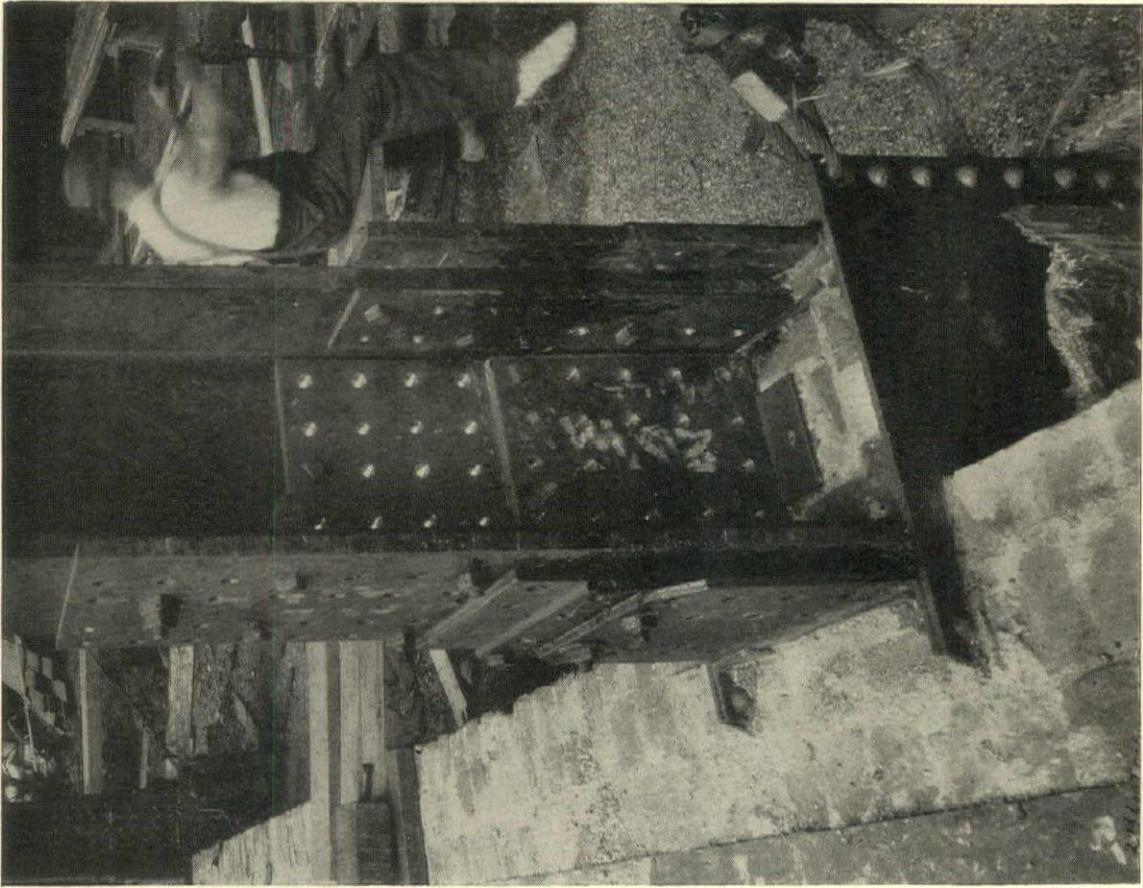
EXCAVATING FOR NEW FOOTING UNDER AN EXISTING COLUMN



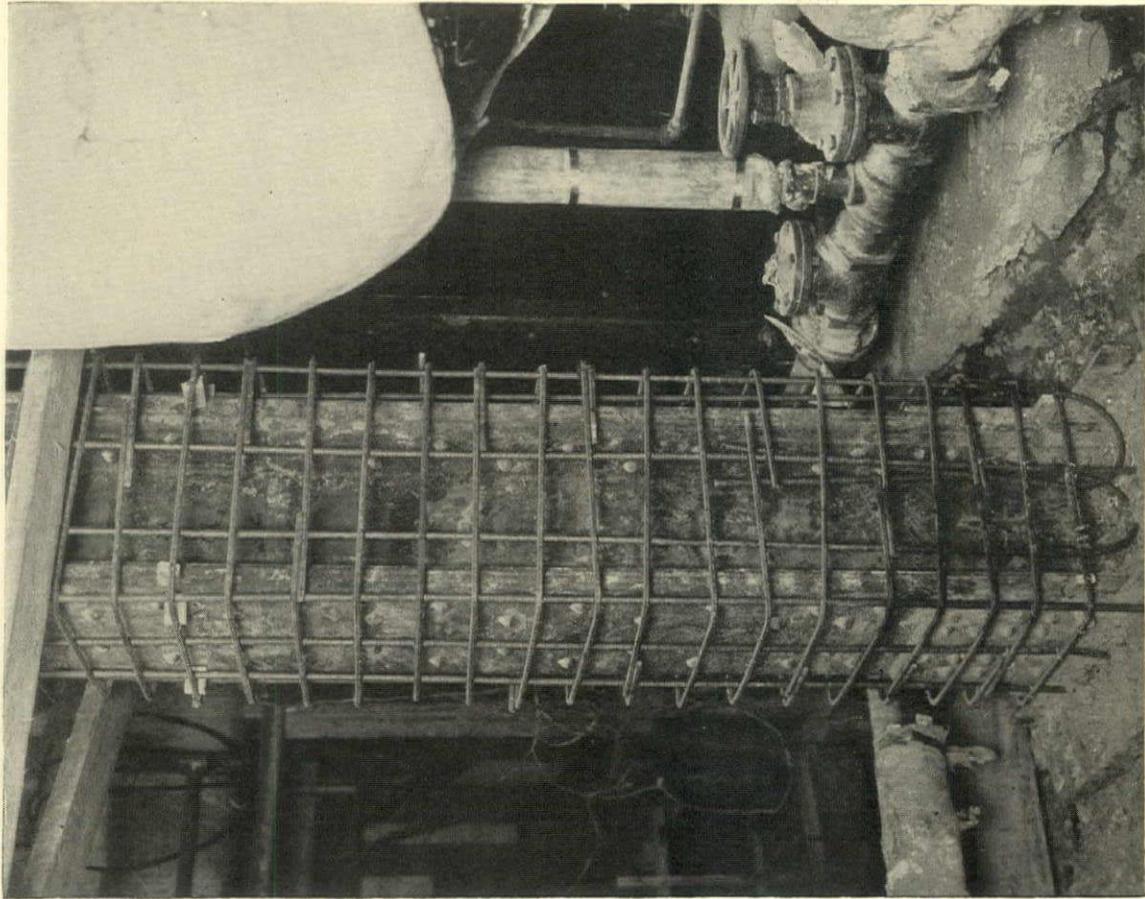
COLUMN SPLICE OF EXISTING AND NEW COLUMN. NOTE FILLERS REQUIRED TO DEVELOP BEARING ON LOWER COLUMN



EXISTING BEAMS SHORED, CONNECTIONS TO OLD COLUMN CUT AND METHOD OF CONNECTING BEAMS TO NEW COLUMNS



SPLICE OF NEW AND EXISTING COLUMN AT ROOF OF COLONNADE BUILDING, SHOWING FILLERS REQUIRED TO DEVELOP BEARING BETWEEN COLUMNS



STRENGTH OF EXISTING COLUMN INCREASED BY USE OF REINFORCED CONCRETE. REINFORCING BARS IN POSITION READY FOR FORMS AND CONCRETE



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*Building Construction*  
*Flatiron Building*  
*New York*

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OFFICE OF  
 HUGH WHITE  
 PRESIDENT

March 10th, 1927.

American Brass Company,  
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*Hugh White*  
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## EVERYBODY'S BUSINESS

By FLOYD W. PARSONS

MUCH has happened since that August afternoon in 1826 when John Stevens built a wood fire in the odd-looking contrivance that was to startle the natives by traveling around two concentric circles of wooden rails that had been laid down upon his New Jersey lawn. Few of those present at the time appreciated what the steam train was ultimately to mean to America. They did not realize that very soon our legislatures would be besieged for railroad charters, and the crack of axe and pick would be heard all over our country slashing out rights of way for what was to be the greatest national transportation system in the world and the cornerstone of America's economic progress. Our railroad mileage would now belt the earth a dozen times, and, when we include the cost of equipment, we have here a total investment in rail transportation facilities of \$25,000,000,000. Our expenditure for improved highways and motor vehicles exceeds that for railroads, while one and one-fourth billion dollars have been spent for river and harbor improvements.

But notwithstanding our great progress in this vital field of transportation, the work has hardly more than commenced. Time is money, and delays in moving merchandise and people add materially to the cost of doing business. In 1921 and other years of depression, a lack of haulage facilities was always a contributing factor in the slowing down of industry. Probably one reason for the protracted continuance of our present period of prosperity is the fact that there has been no shortage of freight cars during the last four years.

But transportation in America must now undergo a revolution. The old order is now facing new and radical forms of competition. One has to do with moving the Atlantic Ocean into the heart of the North American continent. Our Great Lakes ports will become ocean ports, thereby removing the freight disadvantage which affects forty million Americans residing in what we call our midwest region. Farmers and manufacturers in this section learned long ago that it is ten times as expensive, ton for ton, and mile for mile, to move goods over the land as it is to move them over the ocean.

Since these folks could not go to the ocean, they decided to bring it to them, and this will largely overcome the handicap of America in competing for the world's grain markets. The important cities of Russia and the farming countries of South America are on the seacoast and the farms not far away. Here in the United States the grain-growing districts face a land haul of from 500 to 1500 miles, which has helped to reduce the buying power of the American farmer's dollar. With this situation corrected a new

era will commence in all of our midcontinent States.

Then there is the serious problem of adequate, surfaced highways to permit the free movement of more than 25,000,000 self-propelled vehicles. If all the motor cars now in use in the United States were lined up one behind the other and given a spacing of 20 feet, these cars would cover a mileage greater than one-fourth of our 550,000 miles of improved highways of all types. We must now produce 3,000,000 automobiles a year in order to replace only those that are scrapped.

The amazing development of self-propelled passenger and freight vehicles over both long-haul and short-haul routes has created a necessity for highways and streets that will stand up under intense stresses the year round irrespective of heat, moisture and cold. We must have better brakes, better signal devices, better illumination and better vehicular control. Radical measures must be put into effect to conserve street space. Every Saturday night in several of our larger cities, there are over a thousand more automobiles than there were the Saturday before. It is literally true that when the traffic officer in South Chicago holds up his hand, the automobiles in the same line in Michigan City stop.

It is not enough merely to say that the remedy for our difficulty is more roads. What we must also understand is that yesterday's methods are obsolete. Instead of arresting people for going too fast, the principal offense will be for going too slow. Chief attention will be given to the enforcement of minimum speed laws. We must spend millions of dollars for double-deck thoroughfares with overhead or underground crossings for cross traffic.

Highway construction in a near day must provide for express, local and freight traffic. There will be at least three classes of roads: the primary, or arterial highways, and the secondary roads which will include feeder systems, and the local roads that take care of short-haul traffic. The primary highways will be wide enough to allow for three or four traffic lanes to pass at one time in both directions. The express service traveling at high speed probably will run on an elevated structure built above the main road.

These arteries of travel will be perfectly lighted for night traffic, have no grade crossings, be policed by stop and go signals, and have speed limits fixed at a minimum—not a maximum. Buses and trucks will be subjected to regulations as to rates and service as the railroads are now, and all vehicles will have to pay a fair tax for use of the highways.

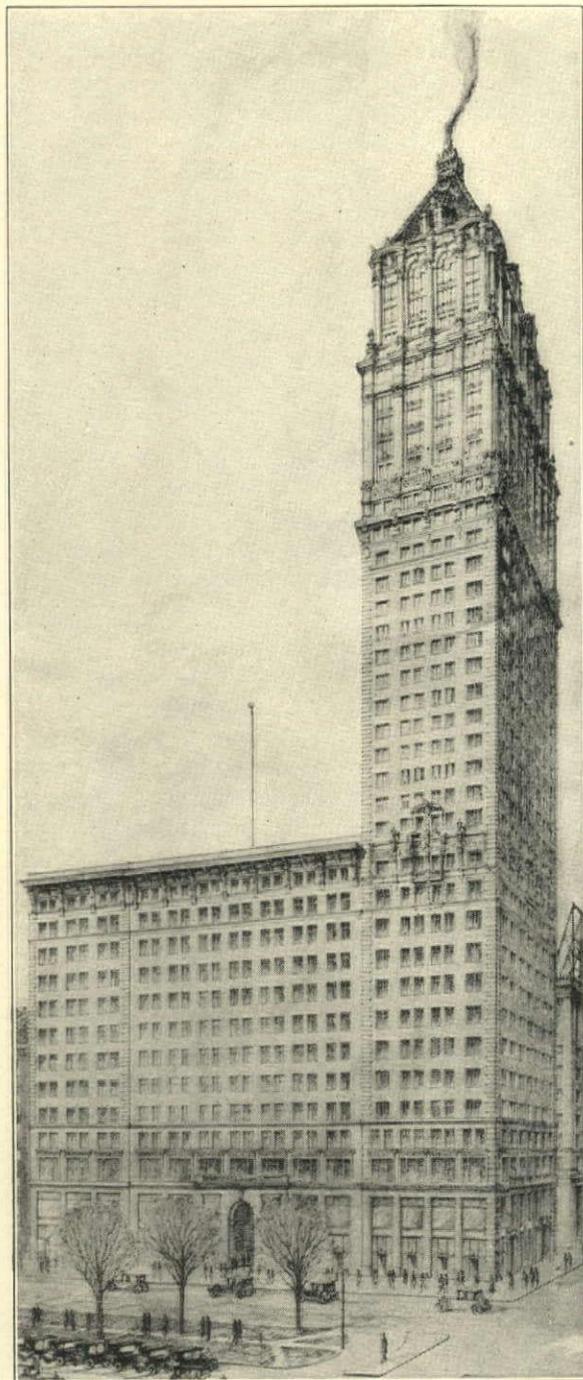
All of which bears heavily on current practices in business and industry throughout the United States.

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Detroit, Michigan

Architect—LOUIS KAMPER  
Contractors—STARRETT-DILKS COMPANY

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Specifications:  
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## THE LAW AS TO ARCHITECTURE

By CLINTON H. BLAKE, JR., of the *New York Bar*

A YEAR or more ago I had occasion to discuss in these columns the situation with which architects are sometimes confronted in connection with bonds furnished by them for work performed for the federal government or for some one of the state governments. I referred at that time to a case in which a bond had been furnished for state and federal work and the work had then been delayed for a long period, but the architect had been forced to continue to carry the bond and the bond premiums. A very similar situation has come to my attention within the last few weeks, and emphasizes anew the injustice which an architect, wholly without his fault, may suffer in this way, if he is not careful with respect to the wording of the bond in the first instance.

The difficulty seems to be that in nearly every case bonds of this type provide that they shall be effective until the completion of the work, without any qualifying phrases. Where they are so worded, they have been interpreted to refer to the completion of the job itself, and not to the completion of the architect's work. The natural result is that, where the work is stopped for some reason and its completion is delayed, the bond under its terms still applies and the architect is not relieved of the bond liability pending the final completion of the job; but is forced to keep the bond alive, so as not to be guilty of a breach of his contract, and, in order to keep it alive, he of course is compelled to pay from year to year the premiums as they fall due. The result is a rank injustice to him, as the delay is not in any way his fault. He is not only held up under such circumstances in the payment of the balance of his fee falling due on the completion of the work, but is actually compelled to pay out substantial annual sums for bond premiums. In the case which has most recently been brought to my attention in this connection, it appears that the amount of these premiums will probably at least equal the amount of the compensation which the architect will receive for the work remaining to be completed.

It would seem that in any case, as a matter of plain equity, the client, whether it be the federal or state government in such case, or municipal governing body, should agree to some change in the bond or to its reduction or cancellation. Various rulings, however, have been made to the effect that such a proceeding is not proper and that the bond must remain in effect. If a test case were made, it seems to me that there might well be a chance that the courts would hold such a ruling unreasonable and untenable, in a case where the delay is not in any way the fault of the architect, but due wholly to the failure of the client to prosecute the work to completion. It is an exceptional case, however, in which it would

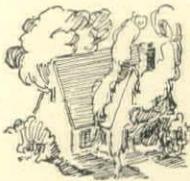
be worth the while of the architect to get into litigation to determine the matter, and the result is that the architect will usually take his medicine and pay the premiums.

In order to meet this situation in advance and prevent being placed in such an unenviable position, the architect will be well advised if he provides in the bond and contract that the bond shall terminate on the completion of the architect's services, and that, if the job is not proceeded with and the completion either of the job or of the architect's services is delayed or made impossible by the work being held up without the fault of the architect, the bond shall terminate at that time or at the very least shall be reduced in amount to a sum sufficient only to cover the balance of the work remaining undone. If such a reduction be made in the amount, a substantially corresponding reduction, of course, in premium will follow. The provision for reducing the bond is not as safe, from the architect's point of view, as the provision that the bond shall terminate, if the work is delayed, as the delay might well take effect after a very small part of the work had been done. If the architect was only entitled to have the bond reduced proportionately, the reduction might not, under such circumstances, be sufficiently substantial to lighten materially the burden on the architect for bond premiums.

If the dealings were had with individuals, rather than with governmental bodies, there would be no difficulty in the ordinary case, and a proper adjustment could be made. Where an architect is dealing, however, with the federal government or a state or municipal government, he must bear constantly in mind the fact that such dealings are on a very different basis, as a practical matter, from dealings with individuals or private corporations; that there are various statutes and governmental red tape involved, and that, proverbially, dealings with governmental bodies are, as a rule, far less satisfactory than those had with private citizens. Anyone dealing with a government—municipal, state or federal—is at a decided disadvantage, and must exercise correspondingly greater care to see that the terms of his employment are properly covered and that everything is done which can be done to prevent him being placed in a false position and subjected to loss through no fault of his own.

### LEGAL DECISION

A RESIDENT of a village died leaving a will which, among other things, provided that the village might construct a library building at a cost as nearly as practicable of \$25,000, and that the cost thereof should be paid out of the testator's estate. The



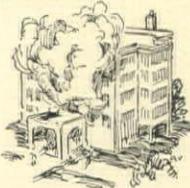
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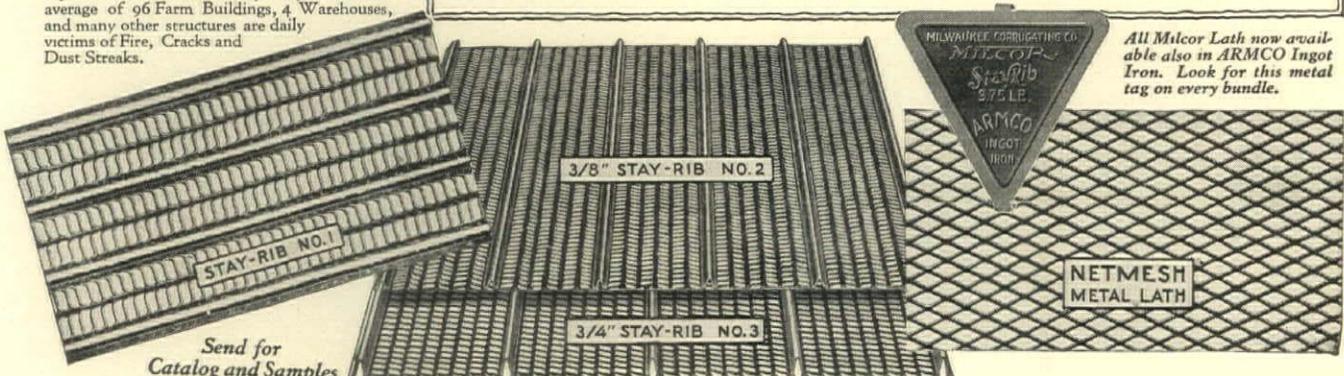
If you haven't "The Milcor Manual" and "Modern Modes in Better Plastering" write for these valuable Books now. They will help you in your campaign for safer construction!

Also write for samples of Milcor Stay-Rib and Netmesh Metal Lath. Compare them with other types of metal lath. On comparisons we shall be glad to rest our case—you be the judge.

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plaintiff, an architect, entered into a contract with the Village, whereby it was provided that he should prepare plans and specifications for the building and receive a stipulated percentage of the cost for his compensation in the ordinary way. Plans were prepared and accepted by the Village, and bids called for. When the bids were opened, it was found that the cost of the work would be very greatly in excess of the \$25,000 limit provided for by the will. The architect claimed that the plans could be changed to reduce the cost within this limitation, and offered to make the necessary changes. The Village, however, refused to proceed further with this architect, and employed another architect to prepare plans, and erected the building in accordance with the plans prepared by the second architect.

The Village still refusing to make payment to the first architect for his services, he brought suit therefor. The Village claimed that the contract entered into with the plaintiff was invalidated because the cost of the building as he planned it would exceed the \$25,000 limitation set forth in the will, that it had not used the plans and had received no benefit therefrom and that it therefore was not liable to the architect for any compensation to him. The architect claimed that, until bids were received, it was not possible to tell exactly how much the work would cost, and that he had properly performed his obligation when he prepared the plans and specifications and offered to make such changes in them as might be required to bring the actual cost within the amount of the limitation. The court held that the limitation as to cost being provided for in the will and the contract referring to the building specified in the will and the parties having knowledge of the provisions of the will, the cost limitation would be read into the contract between the architect and the Village and would be considered to be an enforceable term thereof, notwithstanding the fact that the contract itself did not in so many words provide for a \$25,000 cost limitation. The court further held that the claim of the Village that

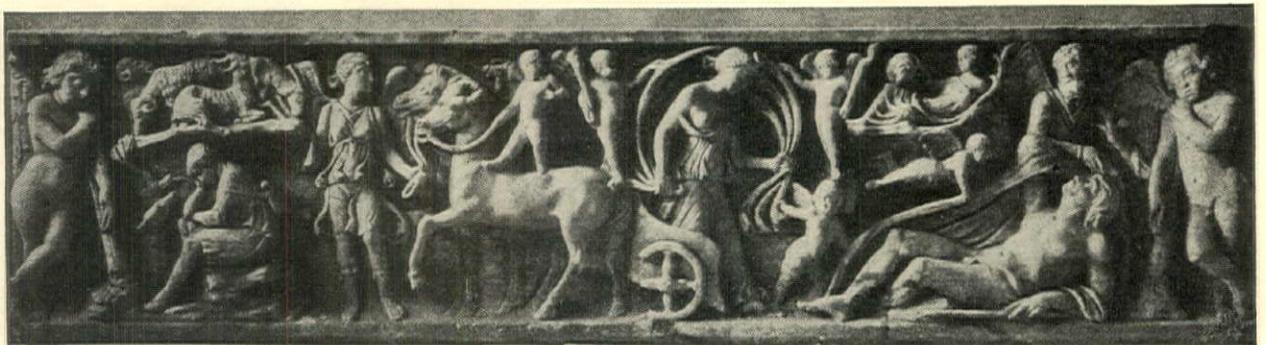
the contract was invalidated because the bids received exceeded the \$25,000 could not be upheld; that the architect, being ready to change the plans so as to bring the cost within the \$25,000, was entitled to be employed as architect and as provided in the contract; that the Village could not defend its claim on the ground that it had not used the plans and had received no benefits therefrom; and that, having prepared the plans in good faith and been ready to make the necessary changes, he should be entitled to compensation for his services. The court says:

"It could not be accurately known until bids were received just what the cost of the improvement as planned would be. As council refused to deal further with the plaintiff, after he had prepared the plans and specifications, which the members of council, as trustees of such fund accepted, the village breached the contract. The maximum damage to plaintiff for the drawing of the plans and specifications would not exceed three per cent of the maximum amount stipulated for the improvement in such will. Insofar as the two per cent for supervising the construction of the building was concerned, as no building was erected, under these plans, and no supervision required, the damage would be merely nominal. There was no evidence presented showing any damage to plaintiff on account of failure to have supervision of erection of such building.

"One of the defenses set up in the answer was that the plans and specifications did not substantially comply with the provisions of Item 3 of the will. (The item of the will dealing with the erection of the library.) It is true that when bids were received it was found that the building as planned would be more expensive than contemplated, but that was an error which could have been corrected, had plaintiff been given an opportunity so to do. However, that does not invalidate this contract made with the village. It would only affect the amount which plaintiff could recover for his services under the contract. \* \* \*

"The contention is also advanced that the village is not liable because it did not use the plans and received no benefits therefrom. However, having ordered the architect to proceed with the preparation of the plans, and having by its contract accepted them, and advertised for bids, the village cannot now complain of the contract because no benefit was received. The work on the plans had been done, and the village had agreed to and did accept them, thereby making a contract which was valid and binding as between the parties."

*Owens v. Wilmington, 15 Ohio Appellate Reports 400.*



## Cork Insulation on Steel Roof Decks

STEEL roof decks, like concrete and wood decks, when insulated with the proper thickness of Armstrong's Corkboard, are practically impervious to heat. The rooms under them can be kept many degrees cooler in summer, and in winter are heated more uniformly and with much less fuel. They will not "sweat."

Insulating with Armstrong's Corkboard requires no change in the specification for the laying of either the deck or the roofing. The corkboard is laid directly on the deck in asphalt or pitch, and since Armstrong's Corkboard is furnished in thicknesses from 1 to 6 inches, only one layer is required whatever the thickness specified. Thus the cost of labor and materials is reduced as compared with building up thin materials in multiple layers. The roofing is then laid on the corkboard in the regular way.

Armstrong's Corkboard is nonabsorbent. It does not buckle, or swell, nor will it open up at the joints. It is so light (less than a pound per board foot) that the weight factor is negligible. It is slow burning and fire retarding. It does not deteriorate—a firm, substantial base for roofing, and permanent insulation that retains its efficiency unimpaired.



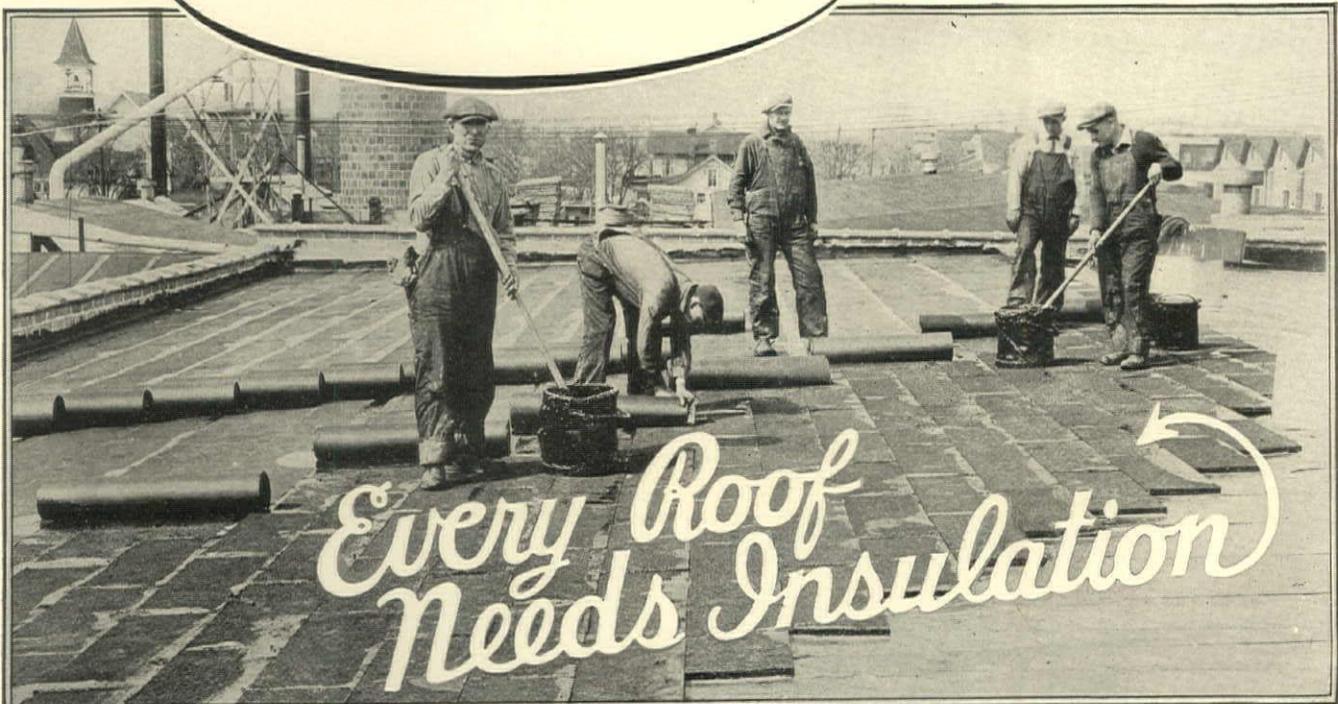
### Reference Catalog for your Building Material File

Any information you want concerning Armstrong's Corkboard for roof and house insulation will be found readily in this Architects' File Catalog. If you haven't a copy, write to Armstrong Cork & Insulation Company, 162 Twenty-fourth Street, Pittsburgh, Pa.

## Armstrong's Corkboard Insulation

for Roofs of All Kinds of Buildings

Laying Armstrong's Corkboard on the Truscon "Ferrodeck" roof of the Pilliod Lumber Company, Swanton, Ohio.

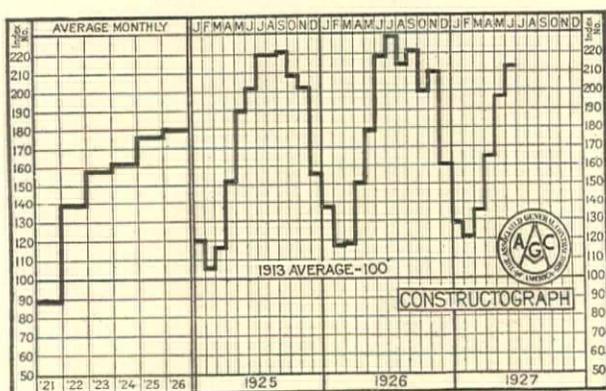


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CONSTRUCTION DURING FIRST HALF OF 1927

THE greatest volume of construction ever undertaken during the first six months of any year on record has been registered since the opening days of 1927, according to statistics compiled by the Associated General Contractors of America. Continuance of operations on a vigorous scale last month placed the total for the six-month period of this year four per cent above the figure established during the corresponding period of 1926 which held the previous record.

VOLUME OF CONSTRUCTION



The June volume shows an eight per cent increase over operations carried on during May. If even a moderate increase is made during July, the supremacy of 1927 as the greatest building year on record will be extended for another month.

Strong indications that the present record-breaking pace will be maintained are found in the enormous amount of contracts for future construction work that recently have been awarded. The volume of awards made in May was greater than any recorded for that month in any previous year. The total of awards for the first five months of 1927 exceeds by five per cent the figure recorded for the corresponding period in 1926.

A scale which places the 1913 average at 100 as its basis shows the June volume of construction to have reached the 212 level. Index figures for the first five months of this year are: 129; 121; 135; 166; 197. Corresponding figures for the same months of 1926 are: 137; 117; 119; 151; 179.

The index figure for volume of contracts awarded during May is 233. The May, 1926, mark was 227.

PERSONALS

Wallace H. Hubbert, architect, 808 French Bank Building, San Francisco, Cal., desires to receive manufacturers' catalogs.

Smith, Moss & Mitschke, architects, have moved their offices from 1112 Union Trust Building to 916 Francis Palms Building, Detroit, Mich.

Harry W. Wachter, architect, Thomas D. Best, Horace W. Wachter have moved their offices from 420 Close Realty Building to 1220 Madison Avenue, Toledo, Ohio.

John M. Paul, architect, is now located at 8 Church Street, White Plains, N. Y., having moved from 185 Main Street, that city. Manufacturers are requested to send catalogs and samples.

C. Godfrey Poggi announces his association with William B. Bragdon under the firm name of C. Godfrey Poggi and William B. Bragdon, architects, 275 Morris Avenue, Elizabeth, N. J.

J. J. Schwarz, architect, has established offices for a general practice of architecture at the Garrick Building, 64 West Randolph Street, Chicago, Ill. Manufacturers' samples and catalogs are desired.

The new firm of John J. Flad and Frank S. Moulton, architects, has opened offices at 300 American Exchange Bank Building, Madison, Wis. Manufacturers' catalogs and samples are requested.

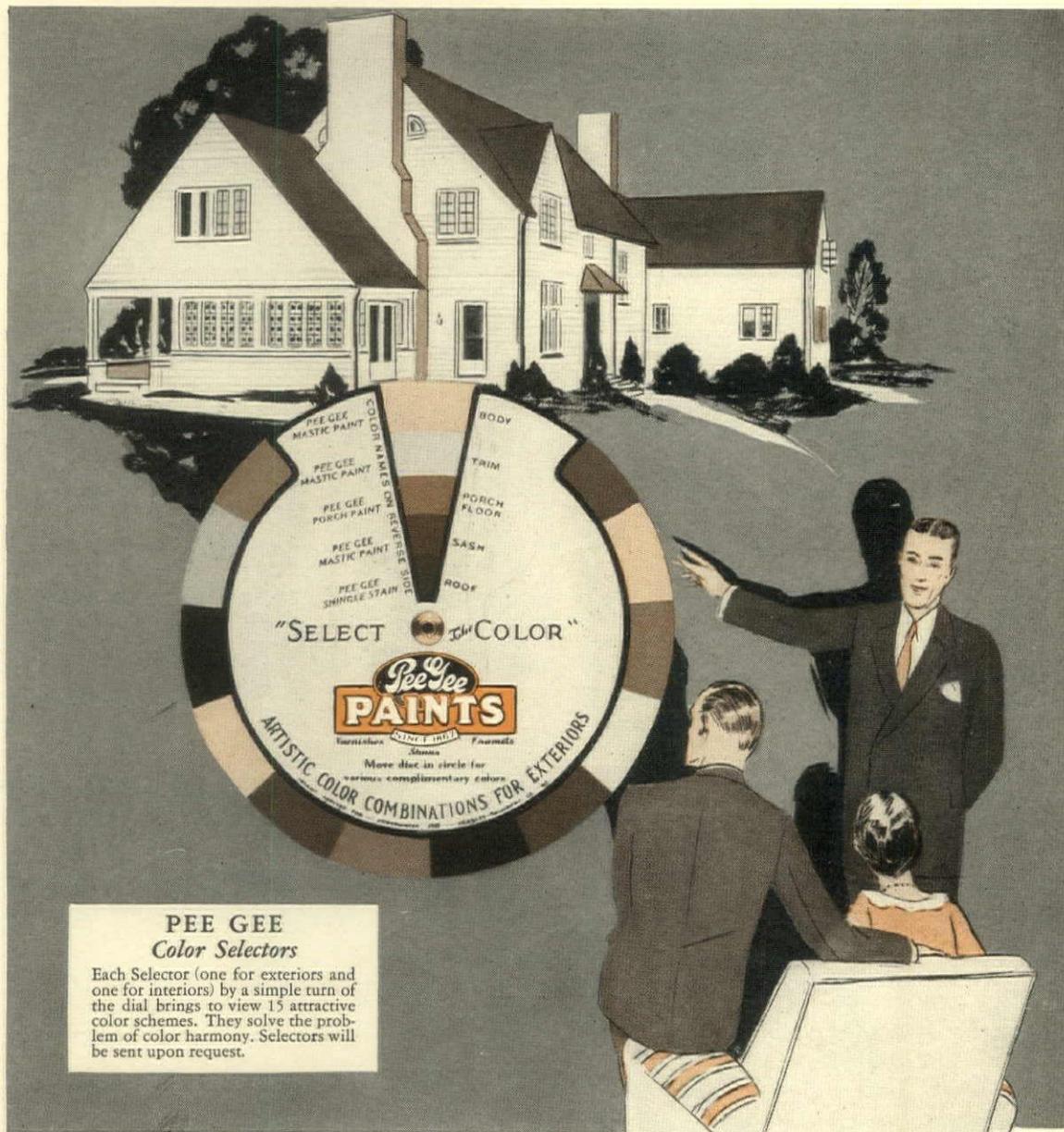
Sam Biderman, architect, 1203 Athletic Club Building, Dallas, Texas, has installed an A. I. A. filing system for manufacturers' catalogs and would be pleased to receive catalogs with A. I. A. filing index printed on them.

Donald Omar Dunn, formerly of the firm of Walker & Weeks, architects, and Munroe Walker Copper, Jr., architect, have formed a partnership under the name of Dunn & Copper, architects, 4500 Euclid Avenue, Cleveland, Ohio.

Fred C. Medicus and John H. Samuels, architects, have formed a partnership for the practice of architecture under the firm name of Architectural Offices Fred C. Medicus-John H. Samuels, Ltd., 211 Chapel Place, Youngstown, Ohio.

Ludlow & Schwab and C. J. Palmgreen, associated architects, have moved their offices from the Chamber of Commerce Building to suite No. 504-505 McCance Block, 305 Seventh Avenue, Pittsburgh, Pa., where they will continue their general practice of architecture.

The architectural firm of Shilling & Eastman, Fairbanks Building, Springfield, Ohio, has been dissolved. W. K. Shilling has taken new offices at 903 Fairbanks Building; R. F. Eastman and Ernst Budke, Jr., have formed a partnership under the name of Eastman & Budke, architects, 926 Fairbanks Building, same city.



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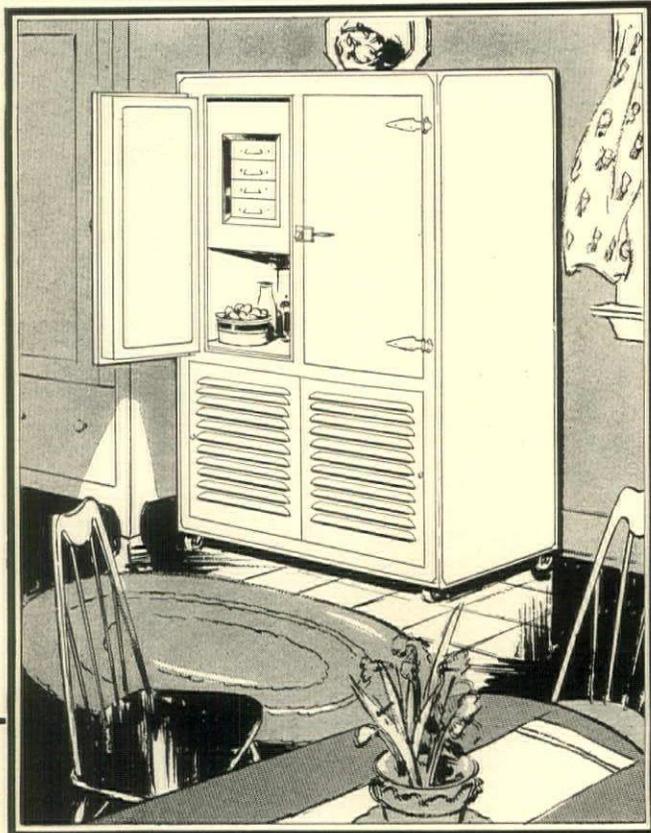
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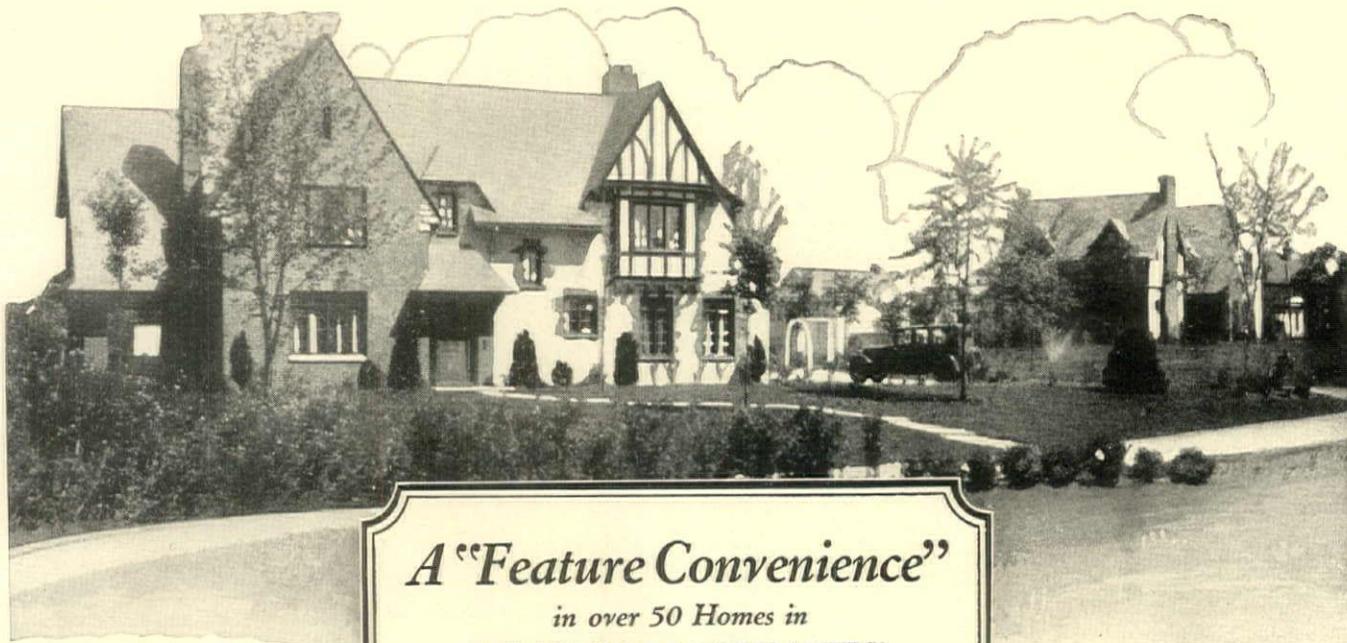
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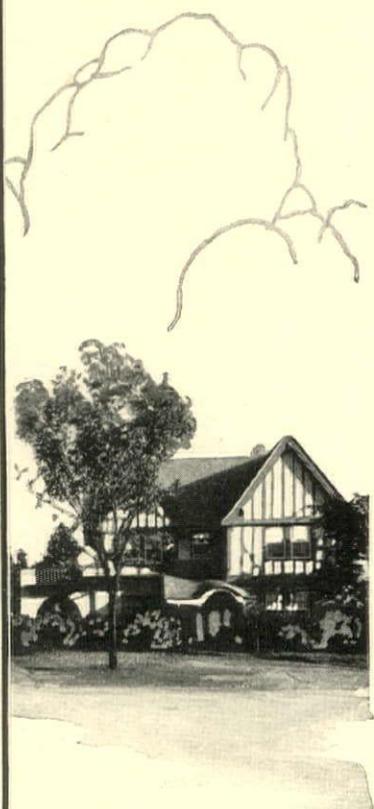


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1256 W. 60th  
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Mrs. S. T. Allen Residence,  
1244 W. 60th Street Terrace



Mrs. Chas. Moncravie  
Residence,  
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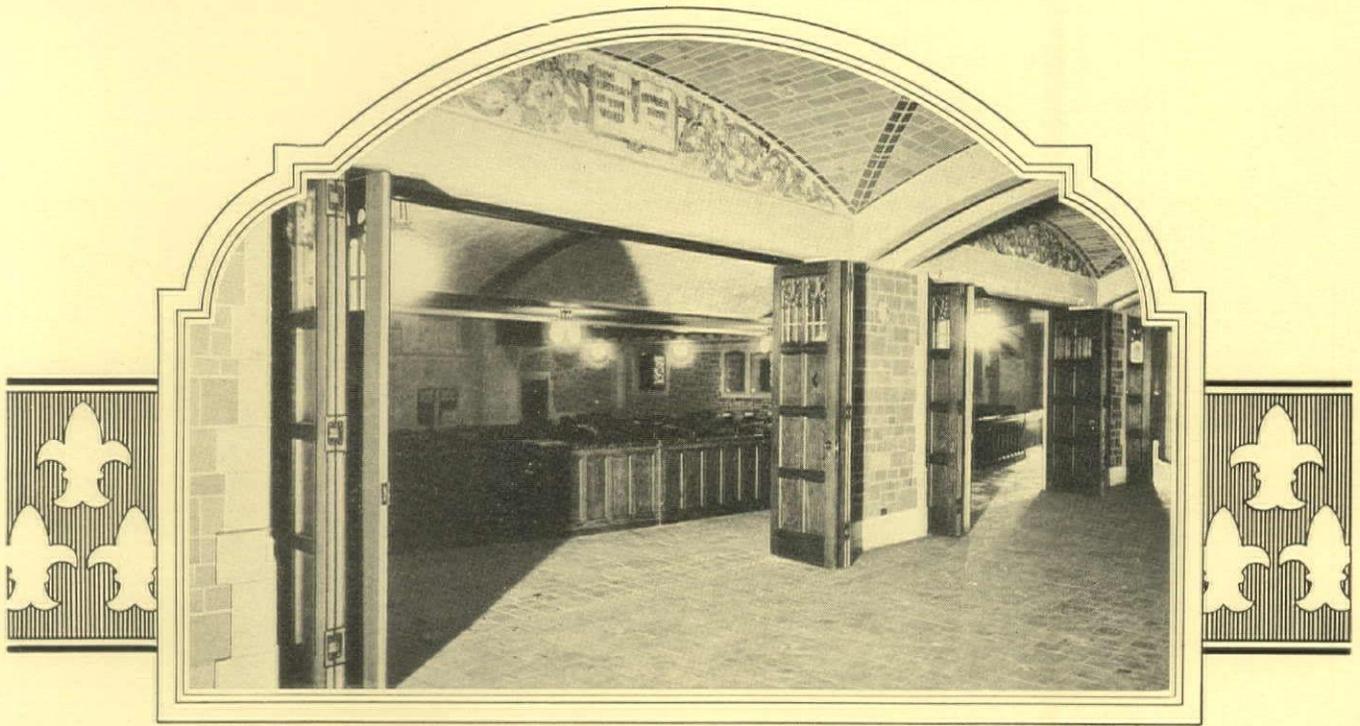
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# REFERENCE LIST OF BUSINESS LITERATURE

*A Service arranged for the use of the Architect, Specification Writer  
and Architect Engineer*

**T**HIS list of the more important business literature of Manufacturers of building material and equipment is published each issue. Any of these publications may be had without charge, unless otherwise noted, by applying to The American Architect, 239 West 39th Street, New York, or obtained directly from the manufacturers. Either the titles or the numbers may be used in ordering.

Arranged according to the Standard Construction Classification adopted by the American Institute of Architects.

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|---|---|
| <ol style="list-style-type: none"> <li>1. PREPARATION OF SITE.</li> <li>2. EXCAVATION.</li> <li>3. MASONRY MATERIALS.</li> <li>4. CONCRETE AND MONOLITHIC CONSTRUCTION.</li> <li>5. BRICK WORK.</li> <li>6. FOUNDATIONS.</li> <li>7. WATERPROOFING AND DAMPPROOFING.</li> <li>8. STONE WORK.</li> <li>9. ARCHITECTURAL TERRA COTTA.</li> <li>10. BLOCK CONSTRUCTION.</li> <li>11. PAVING.</li> <li>12. ROOFING, SHEET METAL AND SKYLIGHTS.</li> <li>13. STRUCTURAL STEEL AND IRON.</li> <li>14. MISCELLANEOUS STEEL AND IRON.</li> <li>15. ORNAMENTAL METAL WORK AND PHYSICAL PROPERTIES OF METALS.</li> <li>16. FIRE RESISTING DOORS, WINDOWS, AND TRIM.</li> <li>17. SPECIAL DOORS AND WINDOWS.</li> <li>18. VAULTS AND SAFES.</li> <li>19. CARPENTRY.</li> <li>20. FURRING AND LATHING.</li> <li>21. PLASTERING.</li> <li>22. MARBLE AND SLATE.</li> </ol> | <ol style="list-style-type: none"> <li>23. FLOOR AND WALL TILE LINOLEUM AND ACCESSORIES.</li> <li>24. PLASTIC FLOORS.</li> <li>25. PAINT, PAINTING AND FINISHING.</li> <li>26. GLASS AND GLAZING.</li> <li>27. HARDWARE.</li> <li>28. FURNISHINGS.</li> <li>29. PLUMBING.</li> <li>30. HEATING AND VENTILATING.</li> <li>31. ELECTRICAL WORK.</li> <li>32. REFRIGERATION.</li> <li>33. ELEVATORS.</li> <li>34. POWER PLANT.</li> <li>35. EQUIPMENT, STATIONARY.</li> <li>36. CONSTRUCTION PLANT.</li> <li>37. INSULATION.</li> <li>38. LANDSCAPE.</li> <li>39. ACOUSTICS.</li> <li>40. REGULATIONS.</li> </ol> <p style="margin-left: 2em;">I PLANS AND DESIGNS.<br/>II GENERAL CATALOGS.<br/>III FINANCING OF ENTERPRISES.</p> |
|---|---|

## 1. PREPARATION OF SITE

## 2. EXCAVATION

## 3. MASONRY MATERIALS

The Carney Co., Mankato, Minn.

1375. *Things Worth Knowing About Carney Cement Mortar.* Booklet contains data on Carney mason's cement mortar. 12 pp. Size, 3½ x 6¼ in.

1376. *O. E. D. Demonstrated.* Booklet briefly sets forth the quality, Economy and Dependability of Carney Cement. A. I. A. File No. 344. 20 pp. Illustrated. Size, 8½ x 11 in.

The General Fireproof Building Products, Youngstown, Ohio.

941. *Fireproofing Handbook.* 64 pp. Size, 8½ x 11 in. Illustrated. Gives methods of construction, specifications, data on Herringbone metal lath, steel tile, Trussit solid partitions, steel lumber, self-centering formless concrete construction.

942. *Hardening and Dustproofing New or Old Cement Floors.* Gives methods for both metallic and chemical hardening. Form A-541.

International Cement Corporation, 342 Madison Ave., New York City.

1358. *Standard Specifications and Tests for Portland Cement,* with supplemental manual of cement testing of the A. S. T. M. Foreword contains a statement of how the International Wet-Blending process affords maximum quality controlled in cement manufacture. Brief bibliography on Portland Cement is included. This is an important volume for every office. 48 pp. Illustrated. Size, 6¼ x 9½ in.

Kosmos Portland Cement Co., Louisville, Ky.

877. *Kosmortar. A Mason's Cement.* A circular describing the properties of this material, tests of strength and directions for its use. 8 pp. Illustrated. Size, 3½ x 8¾ in.

Louisville Cement Co., Inc., Louisville, Ky.

311. *Brixment, the Perfect Mortar.* The reading of this little book gives one a feeling that definite valuable information has been acquired about one of the oldest building materials. Modern science has given the mason a strong water-resisting mortar with the desirable "feel" of the best rich lime mortar. 16 pp. Illustrated, in colors. Size, 5½ x 7¾ in.

694. *Brixment for Perfect Mortar.* A description of the chemical and physical properties of Brixment, advantages of its use in mortars for brick and stone masonry, tests of strength and directions for use. In cover for filing. 16 pp. Illustrated. Size, 8½ x 11 in.

## 4. CONCRETE AND MONOLITHIC CONSTRUCTION

Cement-Gun Company, Inc., Allentown, Pa.

1030. *Gunite Bulletins.* A series of bulletins describing the adaptability of gunite, cement-gun product, for a wide range of construction and replacement work of all kinds. Illustrated. Size, 6½ x 9½ in.

Concrete Engineering Co., Omaha, Neb.

347. *Handbook of Fireproof Construction.* An illustrated treatise on the design and construction of reinforced concrete floors with and without suspended ceilings. The Meyer Steel-form Construction is emphasized and tables are given of safe loads for ribbed concrete floors. 40 pp. Illustrated. Size, 8½ x 11 in.

Concrete Steel Co., 42 Broadway, New York City.

1196. *Havemeyer Bars and Building Products.* Complete description of various products made by this company for use in all types of reinforced concrete construction and fireproof buildings. Specifications for the use of these materials are included. An informative booklet for filing. 40 pp. Illustrated. Size, 8½ x 11 in.

International Cement Corporation, 342 Madison Ave., New York City.

1359. *Concrete Data.* Series of folders each folder devoted to a separate subject. Folders include data on sidewalks, foundations, mixing and garages. Each folder 4 pp. Illustrated. Size, 8½ x 11 in.

Mitchell-Tappen Company, 16 John St., New York, N. Y.

257. *Booklet 20 on Standardized Metal Caging.* Description of various ways of reinforcing the concrete fireproofing on structural steel work, with particular reference to Standardized Metal Caging.

Portland Cement Association, 347 Madison Ave., New York City.

595. *Concrete Floors—Proposed Standard Specifications of the American Concrete Institute.* Specifications with explanatory notes covering materials, proportions, mixing and curing. Plain and reinforced slabs are covered as well as one and two course floors and wearing courses. 18 pp. Size, 6 x 9 in.

636. *Concrete Data for Engineers and Architects.* A valuable booklet containing the reports of the Structural Materials Research Laboratories at Lewis Institute, Chicago, in abbreviated form. It is of great value to writers of specifications. 18 pp. Illustrated. Size, 8½ x 11 in.

## 5. BRICK WORK

American Face Brick Association, 1754 Peoples Life Bldg., Chicago, Ill.

1156. *Architectural Details in Brickwork.* Series One, two and three. Each series consists of an indexed folder case to fit standard letter file, containing between 30 and 40 halftones in brown ink on fine quality paper. These collections are inspiring aids to all designers. Sent free to architects who apply on their office stationery; to others, 50 cents for each series. Size, 8½ x 11 in.

1157. *English Precedent for Modern Brickwork.* A book of plates and measured drawings of Tudor and Gothic brickwork with a few recent variations of modern architects in the spirit of the old work. Price, \$2.00. 100 pp. Illustrated. Size, 8½ x 11 in.

1158. *Brickwork in Italy.* An attractive and useful volume on the history and use of brick in Italy from ancient to modern times. profusely illustrated with 69 line drawings, 300 halftones and 20 colored plates with a map of modern and XII century Italy. Bound in linen. Sent postpaid upon receipt of \$6.00. Half Morocco, \$7.00. 298 pp. Size, 7½ x 10½ in.

1250. *Industrial Buildings and Housing.* The planning of the modern manufacturer's monument—his factory—is treated in detail. Suggestions are given for interior arrangements, including restaurants and rest rooms. Price, \$2.00. 112 pp. Illustrated. Size, 8½ x 11 in.

Atlantic Terra Cotta Co., 19 West 44th St. New York City.

1347. *Chimney Pots.* Second Edition. Detail drawings and color illustrations of terra cotta chimney pots, roof crests and finials. Designs are reproductions of old world types in numerous patterns and sizes. A. I. A. File No. 9. 16 pp. Illustrated. Sizes 8½ x 11 in.



Mr. L. W. Robert, Jr., of Robert & Co., Architects and Engineers, Bona Allen Bldg., Atlanta, Ga. Mr. Robert has made a specialty of textile mills, but is responsible, also, for the design of the splendid Stadium of his Alma Mater, Georgia School of Technology.

## “Unusual problems faced in building the Grand Stand at Atlanta Baseball Park”

“THE design of the Grand Stand at the Baseball Park used by the Atlanta team, in the Southern League, presented some rather unusual difficulties,” said Mr. L. W. Robert, Jr., of Robert & Co., prominent Architects and Engineers, at Atlanta.

“Just take the roof, for example. It had to withstand summer heat and winter cold. It had to be waterproof and fireproof—cooler than the ordinary roof, too, and capable of withstanding the frequent impact of baseballs fouled to the roof of the stand.

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View of the Grand Stand at the Atlanta Baseball Park, Ponce de Leon Avenue, Atlanta, Ga. The photograph was taken from the Sears, Roebuck Building, which, incidentally, is also Carey-roofed.

*A Carey Built-up Roof covers the stands at the Park of the Atlanta Baseball Club—a “season-proof,” white-topped Asbestos Roof which deflects the rays of the sun and affords a cooler shelter for Atlanta’s “fans.” A fireproof roof, too—approved by the Underwriters’ Laboratories with “Class A Label.”*

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## REFERENCE LIST OF BUSINESS LITERATURE—Continued

## 5 BRICK WORK—Continued

The Common Brick Manufacturers' Association of America, Guarantee Title Bldg., Cleveland, O.

1011. *Skintled Brickwork*. A valuable brochure illustrating the effects secured by skintled brickwork made of common brick. Close-up views showing working details and general illustrations. Price 15 cents. 16 pp. Illustrated. Size, 8½ x 11 in.

1012. *Hollow Walls of Brick*. A booklet containing general illustrations, detail methods and insulation qualities of hollow walls of brick. 24 pp. Illustrated. Size, 8½ x 11 in.

## 6. FOUNDATIONS

Raymond Concrete Pile Co., 140 Cedar St., New York City.

156. *Raymond Concrete Piles—Special Concrete Work*. A booklet with data concerning the scope of the Raymond Concrete Pile Co., for special concrete work. It classifies piles, showing by illustration, text and drawings, the relative value of special shape and manufacture of piles. It gives formulae for working loads, and relative economy. Size, 8½ x 11½. 60 pp.

## 7. WATERPROOFING AND DAMPROOFING

The Philip Carey Co., Lockland, Cincinnati, Ohio.

1035. *Carey Waterproofing and Dampproofing Specifications*. A valuable file of eleven specifications for waterproofing and dampproofing various types of structures with different conditions. 44 pp. Illustrated. Size, 8 x 10½ in.

A. C. Horn Company, Long Island City, N. Y.

972. *Waterproofings*. A folder containing loose leaf specifications for waterproofings and dampproofings for all places, materials and for all conditions. Also service bulletin. 32 pp. Illustrated. Size, 8½ x 11 in.

Sommers & Co., Ltd., 342 Madison Ave., New York City.

1118. *Permanite Liquid Waterproofing* for making concrete and cement mortar permanently impervious to water. Also circulars on floor treatments and cement colors. Complete data and specifications. Sent upon request to architects using business stationery. Circular size, 8½ x 11 in.

L. Sonneborn Sons, Inc., 114 Fifth Ave., New York City.

891. *Dampproofing and Waterproofing. Floor Treatments*. Bulletins of specification data for dampproofing structures and for floor hardening and coloring. Sent on request on business stationery. In folders. Size, 8½ x 11 in.

The Sullivan Co., Memphis, Tenn.

1351. "Life Preservers for Buildings and Equipment." Cement mixing compound for hardening and water-proofing concrete, also accelerators and anti-freeze compounds. Folder also includes data on Konsel, Kemi-Kal, Sulco Waterproofing Plaster Bond and Mortar Colors, Kant-Leak, Kontite, Sealcote, Cemset, E-Z Patch, Konsel, Art-Cote, Fibermix, and other products of a similar nature. Filing folder indexed A. I. A. File No. 7. Loose sheets on various products also indexed with A. I. A. File No. for the proper subdivision. 56 pp. Illustrated. Size, 8½ x 11 in.

Truscon Laboratories, Detroit, Mich.

967. *Specifications for Truscon Waterproofing, Dampproofing and Oil Proofing, Book "A."* Complete specifications for all conditions requiring water and dampproofing for concrete, plaster, stucco, stone and other masonry. 14 pp. Illustrated. Size, 8½ x 11 in.

## 8. STONE WORK

Indiana Limestone Company, 1317 Tribune Tower, Chicago, Ill.

845. *School and College Buildings, Vol. 6, Series B*. A profusely illustrated booklet showing the use of Indiana Limestone in a large number of educational buildings of all kinds and types and in all parts of the United States. 80 pp. Illustrated. Size, 8½ x 11 in.

Indiana Limestone Company, Architects' Service Bureau, P. O. Box 308, Bedford, Ind.

1241. *Indiana Limestone Specification Manual*. This is Vol. III, Series "A-3," Service publication on Indiana Limestone, containing Specifications and Supplementary Data, relating to best methods of specifying and using this stone for all building purposes. It can be obtained from a Field representative of the company or by direct request from architects written on his letterhead. 84 pp. Size, 8½ x 11 in.

## 9. ARCHITECTURAL TERRA COTTA

Atlantic Terra Cotta Company, 19 W. 44th St., New York City.

1366. *Apartments and a Apartment Hotels*. Atlantic Terra Cotta architectural monograph Vol. IX, No. 2, May, 1927. General and detail illustrations of several apartment buildings and a Telephone Company building are shown. A. I. A. File No. 9. 16 pp. Illustrated. Size, 8½ x 11 in.

National Terra Cotta Society, 19 West 44th St., New York.

664. *Standard Specifications*. Contains complete detailed specifications for the manufacture, furnishing and setting of terra cotta, a glossary of terms relating to terra cotta and a short form specification for incorporating in architects' specification. 12 pp. Size, 8½ x 11 in.

668. *Better Banks*. Illustrating many banking buildings in terra cotta, with an article on its use in bank design by Alfred C. Bossom, architect. 32 pp. Illustrated. Size, 8½ x 11 in.

The Northwestern Terra Cotta Co., 2525 Clybourn Ave., Chicago, Ill.

96. *Architectural Terra Cotta*. A collected set of advertisements in a book, giving examples of architectural terra cotta, ornamental designs and illustrations of examples of facades of moving-picture houses, office buildings, shops, vestibules and corridors in which Northwestern Terra Cotta was used. Size, 8½ x 11 in. 78 pp.

## 10. BLOCK CONSTRUCTION

National Building Units Corp., 1600 Arch St., Philadelphia, Pa.

1297. *Straub Cinder Building Blocks, Durability and Utility of*. Report prepared by the Pittsburgh Testing Laboratory after an investigation extending over a period of one year. Among the subjects treated in the report are: Compression, Absorption and Fire Tests; Holding Power of Nails—reports on building in which Straub blocks have been used; and conclusions. A. I. A. File No. 10a 2. 14 pp. Size, 8½ x 11 in.

## 11. PAVING

## 12. ROOFING, SHEET METAL AND SKYLIGHTS

The Barber Asphalt Co., Philadelphia, Pa.

1249. *Genasco Standard and Economy Trinidad Lake Asphalt Built Up Roofing*; Specifications for use over wood sheathing and concrete, gypsum or tile roof decks. Specifications for Genasco membrane waterproofing and Genasco Asphalt Mastic Flooring are included with detail drawings to show application and quantities of material required for estimating. 16 pp. Illustrated. Size, 8 x 10½ in.

John Boyle & Co., Inc., 112-114 Duane St., New York City.

212. *Boyle's Bayonne Roof and Deck Cloth*. List B-93. A prepared roofing canvas guaranteed waterproof for decks and the roofs and floors of piazzas, sun-parlors, sleeping porches, etc.

The Philip Carey Co., Lockland, Cincinnati, Ohio.

378. *Architects' Specification Book on Built-up Roofing*. A manual for detailers and specification writers. Contains complete details and specifications for each type of Carey Asphalt Built-up Roof. 20 pp. Illustrated. Size, 8½ x 11 in.

The Edwards Manufacturing Co., Cincinnati, Ohio.

1356. *Edwards Sheet Metal Products Catalog No. 75*. A complete catalog of sheet metal building materials including various types of roofing, gutters and conductors, doors and windows, skylights and ventilators and many other products. General illustrations, descriptions, detail drawings and specifications are included. A. I. A. File No. 12. 184 pp. Illustrated. Size 9¼ x 12 in.

Milwaukee Corrugating Co., Milwaukee, Wis.

815. *Milcor Architectural Sheet Metal Guide, Catalog No. 24*. A complete catalog of sheet metal ceilings and side walls, zinc and copper ornaments, cornices, skylights, ventilators, gutters, downspouts and roofing tiles. 64 pp. Illustrated. Size, 8½ x 11 in.

Mohawk Asbestos Slate Co., Inc., Utica, N. Y.

873. *The Roof Everlasting*. A booklet describing the advantages of the Mohawk everlasting asbestos shingle with specifications for installation. 20 pp. Illustrated. Size, 3¼ x 6½ in.

Rising and Nelson Slate Company, 101 Park Ave., New York, N. Y.

496. *Tudor Stone Roofs*. This leaflet discusses colors and sizes of Tudor hand-wrought slates; deals with the service given to architects and tells how the material is quarried for each product after careful drawing and specifications are prepared in co-operation with architects. Special grades are described in detail and illustrations are given of buildings with Tudor slate roofs. Contains also specifications of laying slate. 4 pp. Illustrated. Size, 8½ x 11 in.

571. *Tudor Stone Roofs*. A brochure describing the 7 special grades of Tudor Stone and the 7 grades of commercial slate produced by this company with illustrations of many structures on which it has been used. 28 pp. Illustrated. Size, 6 x 9½ in.

## 13. STRUCTURAL STEEL AND IRON

American Institute of Steel Construction, Inc., 285 Madison Ave., New York City.

1324. *Standard Specification for Structural Steel in Buildings and Code of Standard Practice*. Eighth Edition. Specifications adopted by more than one hundred cities and states in the U. S. and Canada; Code of Practice to eliminate misunderstandings and effect economies. 76 pp. Illustrated. 5¼ x 8 in.

1325. *Allowable Load Tables*. Second Edition. Tables of allowable loads on beams and girders based on 18,000 pound fibre stress and on columns based on 15,000 pounds fibre stress, conforming to the A. I. S. C. Standard Specification. 104 pp. 5¼ x 8 in.

Bates Expanded Steel Truss Company, East Chicago, Ind.

1370. *Bates-Truss Joists*. Descriptive and designing data for the Bates-Truss Joists and accessories for use in floor and roof construction. Booklet describes the joists and methods of installation and gives complete loading, spacing and dimension tables. 30 pp. Illustrated. Size, 8½ x 11 in.

Bethlehem Steel Co., Bethlehem, Pa.

1082. *Bethlehem Rolled Steel Slabs for Column Bases*. Catalog S-17 revised to December, 1925, general information, instructions for ordering, tables of minimum and maximum rolling lengths for various widths and thicknesses and weights and dimensions of rolled steel slabs for column bases. 12 pp. Illustrated. Size, 4 x 6½ in.

1173. *Bethlehem Structural Shapes*. Catalog S-18. Handbook containing complete information on Bethlehem sections, dimensions, weights, and safe load tables for beams, girders and columns. This handbook also contains much valuable engineering data useful in the design of structural steel buildings. 216 pp. Illustrated. Size, 4½ x 7 in.

1178. *Standard Structural Shapes, Shipbuilding Shapes and Car Building Shapes*. Condensed Catalog No. S-19, containing notes, dimensions, allowable variations and properties of American standard I-Beams, channels and angles; shipbuilding channels and bulb angles; car building shapes; rails and miscellaneous steel shapes. 84 pp. Illustrated. Size, 4 x 6½ in.

## REFERENCE LIST OF BUSINESS LITERATURE—Continued

### 13. STRUCTURAL STEEL & IRON—Continued

**Carnegie Steel Company, Pittsburgh, Pa.**

**1336. Carnegie Beam Sections.** Hand book contains profiles, dimensions and properties and safe load tables for new series, Carnegie Structural Steel beams and column sections. A hand book of value to architects and engineers designing structural steel. 170 pp. Illustrated. Size 5 x 8 in.

**Concrete Steel Co., 42 Broadway, New York City.**

**1177. The Havermeier Truss.** Information and designing data for the use of Havermeier trusses as floor beams to support concrete slabs and metal lath ceilings in connection with structural steel or reinforced concrete structures. Booklet describes the trusses and construction methods. Tables of dimensions, spacing and total safe loads are given. 8 pp. Illustrated. Size, 8½ x 11 in.

**Lally Column Co., Inc., 211-249 Lombardy St., Brooklyn, N. Y.**

**1125. Lally Columns.** Handbook 1926 edition. Greatly increased safe load table. Construction details for various types of steel construction. The text describes advantages of endurance and economy of the Lally column. Various tests, tables of dimensions, weights, and data on other structural materials are given. 86 pp. Size, 4½ x 6½ in.

**The Lincoln Electric Co., Cleveland, Ohio.**

**1242. Arc Welding.** The new age in iron and steel. What arc welding is and what it does is completely told in text and illustration. The advantages of arc welding, strength of arc welded steel joints and cost of welding are among the headings covered in this volume. A valuable book on the subject of arc welding. Price \$1.50. 160 pp. Illustrated. Size 6 x 9 inches.

**The Rivet Grip Steel Co., 2404 Prospect Ave., Cleveland, Ohio.**

**1217. Rivet-Trip Steel Joists.** Booklet describes the distinctive features of Rivet-Grip steel joists, method of erection and contains details, safe load tables and specifications. A.I.A. file No. 13g. 12 pp. Illustrated. Size, 8½ x 11 in.

**Truscon Steel Company, Youngstown, Ohio.**

**641. Truscon Steel Joist Data Book.** Complete data of steel joists giving properties, dimensions, safe loads, coefficients of deflection, details of connections, specifications, directions for installations. 32 pp. Illustrated. Size, 8½ x 11 in.

**1234. Truscon Steel Joists for Economy, fire, safety, permanence.** Booklet describes fire resisting construction using steel joists, tables of data including safe load tables are given. 16 pp. Illustrated. Size, 8½ x 11 in.

### 14. MISCELLANEOUS STEEL AND IRON

**American Abrasive Metals Company, 50 Church St., New York City.**

**1260. Feralun Anti-Slip Treads** make walkways safe. Folder illustrates several prominent buildings in which Feralun, Bronzalun or Alumalun Anti-Slip Treads have been used. Particular reference is made to Feralun Anti-Slip Treads and their use. 4 pp. Illustrated. Size, 8½ x 11 in.

**Colonial Fireplace Co., 4603-4617 Roosevelt Road, Chicago, Ill.**

**676. Blue Print Details.** A valuable set of scale details of correct fireplace construction and examples of details to avoid. Instructions for setting the Colonial head throat and damper. Explanations of necessity for summer use of damper. Folder equivalent to 8 pp. Illustrated. Size, 8½ x 10½ in.

**H. W. Covert & Co., 137 East 46th St., New York City.**

**774. Fireplace and Flue Construction.** A treatise explaining the elements of fireplace construction with details and dimensions and description of dampers and other accessories. 12 pp. Illustrated. Size, 8½ x 11 in.

**The Safety Stair Tread Co., Wooster, Ohio.**

**1319. Evidence.** Some Supreme Court decisions showing the legal aspect of injuries received through falls on stairways. Leaflet also contains list of advantages of Wooster Safe-Groove Treads, and names and addresses of well known users. A. I. A. File No. 14d1. 4 pp. Illustrated. Size, 5½ x 8½ in.

**1322. Wooster Safe-Groove Stair Tread** for schools, office buildings, hotels, factories, railways, hospitals, etc. Folder illustrates and describes Wooster Safe-Groove Stair Treads. Installation details are included. A. I. A. File No. 14d1. 4 pp. Illustrated. Size, 8½ x 11 in.

### 15. ORNAMENTAL METAL WORK AND PHYSICAL PROPERTIES OF METALS

**American Brass Co., Main Office, Waterbury, Conn.**

**138. Price List and Data Book.** Illustrated. Looseleaf Catalog Covers entire line of Sheets, Wire, Rods, Tubes, etc., in various metals. Useful tables. Size, 3½ x 7 in. 168 pp.

**139. Illustrated Pamphlets.** Describes the use and adaptability of Extruded Architectural Shapes, Benedict Nickel, Brass and Copper Pipe in Iron Pipe sizes for plumbing installations. Size, 8½ x 11 in.

### 16. FIRE RESISTING DOORS, WINDOWS AND TRIM

**Art Metal Construction Company, Jamestown, N. Y.**

**1170. Hollow Metal Doors and Trim.** Portfolio containing indexed details of metal doors, trim, frames, partitions, elevator enclosures and dumbwaiter enclosures prepared for use in the draughting room, together with general catalog, showing general details, photographs of executed work and descriptive matter. This valuable portfolio is sent to practicing architects having hollow metal projects. 100 detail pp., general catalog, 160 pp. Illustrated. Size, 8½ x 11 in.

**1171. Hollow Metal Doors and Trim.** Catalog for general but limited distribution to practicing architects contains details of doors, trim, mouldings, partitions and enclosures, photographs of executed work, partial list of installations and specification data. 160 pp. Illustrated. Size, 8½ x 11 in.

**Crittall Casement Window Co., Detroit, Mich.**

**672. Crittall Universal Casement, Catalog No. 22.** Contains complete description, photographs, specifications and details of steel casement windows for banks, schools, residences, churches, hospitals, set directly into masonry and with auxiliary frames. 76 pp. Illustrated. Size, 9 x 12 in.

**1169. Crittall Standardized Casements, Catalog No. 1-26.** For architects. A. I. A. File No. 16e1. An attractively prepared book of details, specifications and descriptive data on standard size and section steel casements. 32 pp. Illustrated. Size, 8½ x 11 in.

**Dahlstrom Metallic Door Co., Jamestown, N. Y.**

**674. Architectural Catalog.** Illustrated catalog showing styles and types of Dahlstrom Standard Construction Hollow Metal Doors and Trim. Conduo-Base, etc. Also various types of frames, jamb construction and architectural shapes. 178 pp. Illustrated. Size, 8½ x 11 in. in looseleaf.

**The General Fireproofing Building Products, Youngstown, Ohio.**

**1266. Architectural Details of GF Steel Windows,** steel lintels, steel doors and mechanical operators. Book of working details, notes, sizes and specifications. 62 pp. Illustrated. Size, 8½ x 11 in.

**1267. GF Steel Standard Casement Windows.** 1926 edition, architectural details, sizes and specifications for standard steel casement windows that can be combined to fill any size opening. Valuable information for the drafting room. A. I. A. File No. 16e. 16 pp. Illustrated. Size, 8½ x 11 in.

**1268. GF Standard Industrial Doors and Frames.** Catalog of standard stock size doors and frames for industrial and commercial buildings. 6 pp. Illustrated. Size, 8½ x 11 in.

**International Casement Co., Jamestown, N. Y.**

**834. International Casements, Catalog No. 7.** A complete catalog, including working details, hardware, screen, specifications and fine illustrations of modern American installations as well as 16th Century Tudor and Jacobean residences in England. 224 pp. Illustrated. Size, 8½ x 11 in. Sent to practicing architects on receipt of request on business letter-head.

**1099. Cotswold Casements, Catalog No. 10.** Steel casements with steel muntins or leaded lights in standard sizes and designs. Details of hardware, sash and suggested frame details. Schedule of standard sizes. Suggested specifications for the use of architects. 18 pp. Illustrated. Size, 8½ x 11 in.

**Jamestown Metal Desk Co., Inc., Jamestown, N. Y.**

**1077. "Medesco" Hollow Metal Doors and Elevator Enclosures.** Catalog B. Metal door designs, combination buck and jambs, finished steel jambs and mouldings. Detail drawings and sections. A catalog for filing. 32 pp. Ill. Size 8½ x 11 inches.

**The Kawneer Company, Niles, Mich.**

**1334. Kawneer Solid Nickel Silver Windows.** Portfolio shows casement, weight hung types and special drop down transom type. Demonstrator included. 12 pp. Illustrated. Size 9 x 11½ in.

**David Lupton's Sons Co., Philadelphia, Pa.**

**1131. Lupton Projected Sash.** A. I. A. File No. 16e1. Details and descriptions of standard steel sash units, projected type for offices, schools and commercial buildings. 24 pp. Illustrated. Size, 8½ x 11 in.

**Richards-Wilcox Mfg. Co., Aurora, Ill.**

**796. Fire Doors and Hardware, Catalog No. A-25.** A catalog of standard, approved tin-clad fire doors, steel frames, automatic door hangers, tracks and fixtures; also hinges, locks and accessories. Details, dimensions and installation diagrams. 96 pp. Illustrated. Size, 8½ x 11 in.

**Truscon Steel Co., Youngstown, Ohio.**

**898. The Donovan Awning Type Steel Window.** A catalog containing details, specifications and complete description of the working and advantages of the Truscon-built Donovan Awning Type Window especially adapted for schools, hospitals and other buildings. 12 pp. Illustrated. Size, 8½ x 11 in.

**The United Metal Products Co., Canton, Ohio.**

**968. Architects' Handbook.** A very fine catalog of hollow metal doors, metal partitions, metal bucks and jambs, metal conduo-base, and metal mouldings. 108 pp. Illustrated. Size, 8½ x 11 in.

### 17. SPECIAL DOORS AND WINDOWS

**Irving Hamlin, 1500 Lincoln St., Evanston, Ill.**

**735. The Evanston Sound-Proof Door; also The Hamlinized Folding partitions.** A circular explaining the construction of a sound-proof door and folding partitions hermetically sealed against odors, dust, light, weather and air, especially adapted to music schools, hospitals, etc. 8 pp. Size, 8½ x 11 in.

**907. The Evanston Sound-Proof Door.** A catalog giving details and hardware equipment of sound, odor, dust and air proof doors for hospitals and music schools. Also Hamlinized folding partitions for churches, Sunday Schools and Public Schools. 10 pp. Illustrated. Size, 8½ x 11 in.

**The Kinnear Manufacturing Company, Columbus, Ohio.**

**455. Steel Rolling and Folding Doors and Shutters, Catalog No. 52.** This catalog is devoted to service doors adaptable to building of all classes, piers, factories, warehouses, etc. Illustrates their uses and contains tables for designers and detailers. 96 pp. Illustrated. Size, 8 x 11 in.

## REFERENCE LIST OF BUSINESS LITERATURE—Continued

## 18. VAULTS AND SAFES

**The Consolidated Expanded Metal Companies**, Steelcrete Bldg. Wheeling, W. Va.

1187. *Steelcrete—Timetested Products*. A condensed catalog of steelcrete products—metal lath, corner beads, channels, wall ties, reinforcing mesh, industrial mesh and steelcrete armor mat vaults. Illustrations, description and specifications for use of products. Bound in cover with index tab for filing. 16 pp. Illustrated. Size, 8½ x 11 in.

**The Rivet-Grip Steel Co.**, 2735 Prospect Ave., Cleveland, Ohio.

768. *The Rivet-Grip System of Bank Vault Reinforcement*. This handbook explains the fundamentals of bank vault design and the advantages of the Rivet-Grip System of Reinforcement. Details of vertical and horizontal types, specifications and installations. 34 pp. Illustrated. Size, 8½ x 11 in.

## 19. CARPENTRY

**Andersen Lumber Co.**, Bayport, Minn.

1109. *Andersen Frames, Catalog No. 300*. A. I. A. File No. 19 e 13. A valuable book for architects' files. Complete description of Andersen standard door and window frames. Dimensions, details, installation details for different types of frames, special conversion details and working specifications. 48 pp. Illustrated. Size, 9¼ x 11¼ in.

**The Bessler Disappearing Stairway Co.**, Akron, Ohio.

1184. *The Bessler Disappearing Stairway*. Series of eight photographs of wood and steel disappearing stairways with data sheet containing dimensions and price list. 9 pp. Illustrated. Size, 8½ x 11 in.

**E. L. Bruce Co.**, Memphis, Tenn.

1083. *Oak Flooring Specification Manual*. A filing folder, A. I. A. File No. 19e9, containing grading rules; uses of different grades; Standard sizes; laying instructions; methods of scraping and suggested specification form. 16 pp. Size, 8½ x 11 in.

**Samuel Cabot, Inc.**, 141 Milk St., Boston, Mass.

1330. *Cabot's Creosote Stained Shingles*. Booklet contains description, approximate and comparative costs, data on covering fastening, suggested specifications and details for the use of Cabot's Stained Shingles. A. I. A. File No. 19d1. 16 pp. Illustrated. Size 8½ x 11 in.

**Chamberlin Metal Weather Strip Co.**, 1644 Lafayette Boulevard, Detroit, Mich.

1300. *Chamberlin Weather Strip Details for Wood Sash and Doors*. Booklet contains comprehensive details of Chamberlin weatherstrips made to meet various conditions. Specifications are included. A valuable reference book on the subject for draughting room and specification writer. A. I. A. File No. 19e14. 50 pp. Illustrated. Size, 8½ x 11 in.

1301. *Chamberlin Plasti-Calk Specifications*. Folder contains specifications for use of Plasti-Calk, detail drawings showing application and charts giving results of tests of leakage through various parts of window frame and wall. A. I. A. File No. 19e16. 4 pp. Illustrated. Size, 8½ x 11 in.

**Curtis Companies Service Bureau**, Clinton, Iowa.

663. *Keeping Down the Cost of Your Woodwork*. A book illustrating Curtis interior woodwork and built-in cabinets and fixtures designed by Trowbridge and Ackerman, Architects, New York. Colored illustrations and details. 16 pp. Illustrated. Size, 7 x 9¼ in.

926. *Curtis Woodwork*. A valuable booklet presenting the entire line of woodwork such as entrances, doors, windows, exterior mouldings, stairs and permanent furniture. Sent on request. 40 pp. Illustrated. Size, 9 x 12 in.

**Hartmann-Sanders Company**, 6 East 39th St., New York City.

334. *Catalog No. 47*. Illustrating Kell's Patent Lock Joint wood stave columns for exterior and interior use. 48 pp. Illustrated. Size, 7½ x 10 in.

**The Higgin Manufacturing Co.**, 5th and Washington Ave., Newport, Ky.

353. *Screen Your Home in the Higgin Way*. A description of Higgin door and window screens with practical data. 16 pp. Illustrated. Size, 8½ x 11½ in.

**The Long-Bell Lumber Co.**, R. A. Long Building, Kansas City, Mo.

204. *The Perfect Floor*. Tells how to lay finish and care for Oak Flooring. 16 pp. 14 illustrations. Size, 5½ x 7¼ in.

**McKeown Bros. Co.**, 21 East 40th St., New York City.

434. *Clear Floor Space*. A folder showing uses and advantages of McKeown "Lattis" and "Bowstring" long span wood roof trusses. 4 pp. Illustrated. Size, 8½ x 11 in.

**G. E. Walter**, 157 East 44th Street, New York City.

1167. *Duretta*. Booklet describing Duretta, a fireproof composition with which carved woodwork and metal can be faithfully imitated. Illustrated with examples of executed doors, panelling, mantels and grilles. 16 pp. Illustrated. Size, 5¼ x 8¼ in.

**Watson Manufacturing Co.**, Jamestown, N. Y.

737. *Watson Insect Screens*. Reprint of space in Sweet's Catalog giving illustrations and detailed data for the use of architects. 21 pp. Illustrated. Size, 8½ x 11 in.

**West Coast Lumber Trade Extension Bureau**, 5562 F. Stuart Bldg., Seattle, Washington.

1168. *Durable Douglas Fir*. America's Permanent Lumber Supply. A treatise on the growth, marketing and use of Douglas fir lumber by Prof. B. L. Grondal, M. Sc. F., College of Forestry, University of Washington. This treatise is interesting, instructive and contains much data of value to the architectural profession. 32 pp. Illustrated. Size 7 x 11 in.

**Western Pine Manufacturers Association**, Portland, Ore.

1296. *Bingo of Flathead*—A dog's story of Pondsosa, the Pick o' the Pines, a narrative that gives the reader a comprehensive idea of Pondsosa Pine from forest to finished lumber. The intermediate steps in the production of lumber are briefly told in an interesting manner. 16 pp. Illustrated. Size, 6 x 9 in.

**J. G. Wilson Corp.**, 11 East 38th St., New York City

760. *Sectionfold and Rolling Partitions. Hygienic School Wardrobes Catalog 37*. This catalog illustrates the construction and details of the partitions and wardrobes with plans for and photographs of installations. 40 pp. Illustrated. Size, 8½ x 11 in.

## 20. FURRING AND LATHING

**The Bostwick Steel Lath Company**, Niles, Ohio.

1278. *Bostwick Economy*. Booklet describes the advantages of metal lath, its application and uses for exteriors and interiors. Tables of standard sizes and weights of various types of lath and specifications are included. Accessories such as corner beads, base beads, "Invisible" picture moulding and wall ties are also shown. 30 pp. Illustrated. Size, 7½ x 9¼ in.

**Concrete Engineering Co.**, Omaha, Neb.

346. *How to Use Ceco Lathing Materials*. An illustrated treatise on the use of expanded metal lath. Contains construction details and complete specifications, with sample piece of lath in pocket on cover of book. 16 pp. Illustrated. Size, 8½ x 11 in.

**Concrete Steel Co.**, 42 Broadway, New York.

1207. *Haemeyer Fireproofing Products*. Booklets descriptive of materials and uses. Includes metal lath; furring channels, flats and angles; welded fabric; copper steel basement windows; curb bars; inserts; steel tiles and metal lumber. Architects' specifications for application of all types of metal lath are given. 40 pp. Illustrated. Sizes, 8½ x 11 in.

**Milwaukee Corrugating Co.**, Milwaukee, Wis.

838. *The Milcor Manual. Catalog No. 20*. A data book for designing the use of expanded metal lath, expansion cornerheads and casings, steel floor domes and other fireproof building products. Specifications and details. 64 pp. Illustrated. Size, 8½ x 11 in.

**Truscon Steel Company**, Youngstown, Ohio.

316. *Hy-Rib and Metal Lath*. Tables, general data and illustrations of Hy-Rib and metal lath constructions. 6 pp. Illustrated. Size, 8½ x 11 in.

## 21. PLASTERING

**The Best Bros. Keene's Cement Co.**, Medicine Lodge, Kansas.

1329. *Best Bros. Keene's Cement*. Booklet contains statement as to the advantages, grades and uses of Best Bros. Keene's Cement, specifications, data on quantities and the painting or enameling of Keene's cement. A booklet of practical value. 24 pp. Illustrated. Size 5 x 9 in.

**Portland Cement Association**, 33 West Grand Ave., Chicago, Ill.

1110. *Portland Cement Stucco*. Book for architects' files, illustrating in color various stucco finishes with description; steps required to obtain these finishes are illustrated. Specifications for Portland cement stucco, recommendations on design and construction. Notes on prepared stucco, color materials, overcoating old houses and construction details. 64 pp. Illustrated. Size, 8½ x 11 in.

## 22. MARBLE, SLATE AND STRUCTURAL GLASS

**Alberene Stone Co.**, 153 West 23rd St., New York, N. Y.

1220. *Alberene Stone Toilet Partitions*. Shower compartments and stair treads and landings. Loose leaf catalog sheets containing information on characteristic features of the material, notes on assembly of units, standard details and specifications, and partial list of installations. 8 pp. Illustrated. Size, 8½ x 11 in.

**The Georgia Marble Co.**, Tate, Pickens Co., Ga., New York Office, 1328 Broadway.

634. *Why Georgia Marble is Better*. Booklet, 3¾ x 6 in. Gives analysis, physical qualities, comparison of absorption with granites, opinions of authorities, etc.

## 23. FLOOR AND WALL TILE, LINOLEUM AND ACCESSORIES

**Armstrong Cork Company, Linoleum Division**, Lancaster, Pa.

1194. *Enduring Floors of Good Taste*. Armstrong's linoleum for all types of buildings, description and illustrations in both black and white and in color. Information on how to choose linoleum, how to lay linoleum and proper care after laying. Typical patterns reproduced in color. 48 pp. Illustrated. Size, 6 x 9¼ in.

1314. *Armstrong's Linoleum Floors*. Fifth Edition, March, 1927, completely revised. Linoleum gauges and weights, tests for judging the quality of linoleum, complete specifications, color plates of typical designs and list of representative installations are given. Booklet is contained in a filing folder indexed A. I. A. File No. 23j. 40 pp. Illustrated. Size, 8½ x 11 in.

**Batchelder-Wilson Co.**, Los Angeles, Calif.

1377. *Batchelder Pavers*. A catalog of tiles and pavement designs—second edition 1927. Illustrations of tiles and suggested designs for floors illustrated in black and white and excellent color plates. A. I. A. File No. 23a. 40 pp. Illustrated. Size, 8¾ x 11½ in.

1378. *Batchelder Tiles*. A catalog of hand made tiles. Fourth Edition 1923. Comprehensive data and illustrations of designs in black and white and color. A. I. A. File No. 23a. 116 pp. Illustrated. Size, 8¾ x 11 in.

**Bonded Floors Company, Inc.**, 1421 Chestnut St., Philadelphia, Pa. A series of booklets, with full color inserts showing standard colors and designs. Each booklet describes a resilient floor material, as follows:

## REFERENCE LIST OF BUSINESS LITERATURE—Continued

## 23. FLOOR AND WALL TILE, LINOLEUM AND ACCESSORIES—Continued

- Bonded Floors Co., Inc.**, 1421 Chestnut St., Philadelphia, Pa.
1159. *Battleship Linoleum*. Explains the advantages and uses of this durable, economical material.
1160. *Marble-ized Cork Composition Tile*. Complete information on cork-composition marbleized tile and the many artistic effects obtainable with it.
1161. *Treadlite Tile*. Shows a variety of colors and patterns of this adaptable cork composition flooring.
1162. *Natural Cork Tile*. Description and color plates of this super-quiet, resilient floor.
1163. *Practical Working Specifications* for installing battleship linoleum, cork composition tile and cork tile.
- Stedman Products Co.**, South Braintree, Mass.
1272. *Stedman Reinforced Rubber Flooring*. Loose leaf catalog bound in folder for filing, indexed A. I. A. File No. 23C. Description of Stedman service and product for floors in many types of buildings. Specifications, technical data, cleaning instructions and list of typical installations are included. 68 pp. Illustrated. Size, 8½ x 10½ in.
- Zenitherm Company, Inc.**, Newark, N. J.
1302. *Zenitherm Floors*. Booklet describes and illustrates the use of Zenitherm as a flooring material for use in various types of buildings. The qualities and properties of Zenitherm are set forth in the text. Zenitherm is a material suitable for interior or exterior use. Data on colors and standard sizes, and a partial list of architects who have specified Zenitherm are included. A. I. A. File No. 23g2. 14 pp. Illustrated. Size, 8½ x 11 in.
1303. *Zenitherm Walls*. A booklet giving a comprehensive idea of the outstanding qualities of Zenitherm as a building material, particularly for walls. Direction for erecting, and other data are included. Partial list of installations are included. A. I. A. File No. 23g2. 22 pp. Illustrated. Size, 8½ x 11 in.

## 24. PLASTIC FLOORS

- Franklyn R. Muller, Inc.**, Waukegan, Ill.
242. *Asbestone Flooring Composition*. A book describing uses of and giving specifications and directions for Composition Flooring, Base, Wainscoting, etc. Size, 8½ x 11 in. Illustrated.
- Thomas Moulding Brick Co.**, 133 West Washington St., Chicago, Ill.
1227. *Floors of Permanence and Beauty at Low Cost*. Folder descriptive of Mouldings "Moulstone" Flooring for residence, office buildings, stores, schools, hospitals and buildings for other purposes. 4 pp. Illustrated. Size, 8½ x 11 in.

## 25. PAINT, PAINTING AND FINISHING

- Craftex Co.**, 37-39 Antwerp St., Brighton Station, Boston, Mass.
1353. *Do You Belong to The Never-Grow-Olds*. Booklet illustrated in color with an outline history of wall textures and decoration. The physical make-up of Craftex is stated and a partial list of installations is included. 20 pp. Illustrated. Size 5¼x8¾ in.
1357. *Craftex Texture Wall and Ceiling Finishes*. Folder tells what Craftex is, types of Craftex finishes obtainable, preparation of surfaces with directions on how to use Craftex. Suggested finishes in Craftex are illustrated. 4 pp. Illustrated. Size 8½x11 in.
- Joseph Dixon Crucible Co.**, Jersey City, N. J.
324. *Dixon's Silica Graphite Paint*. A pamphlet describing the physical properties of silica-graphite paint and especially the wide difference between it and other protective paints. Contains also sample color card with specifications. 20 pp. and 6 pp. in color card. Illustrated. Size, 3½ x 6½ in.
- The General Fireproofing Building Products**, Youngstown, Ohio.
1269. (a) GF Floor Enamel. (b) GF Protective Coatings. (c) GF Cement Paint. Folders contain data, specifications and estimating information for GF technical paints. East folder 4 pp. Size, 8½ x 11 in.
- The Glidden Company**, Cleveland, Ohio.
419. *Architectural Specifications Book*—8½ x 10¼ in. 32 pp. Containing complete architectural specifications and general instruction for the application of Glidden Paints and Varnishes, including Ripolin. Directions for the proper finishing of wood, metal, plaster, concrete, brick, and other surfaces, both interior and exterior, are included in this specification book.
- A. C. Horn Co.**, Long Island City, N. Y.
971. *Horn's House Paints*. Catalogs and color cards of paints for exterior wood work, porch and deck paints, shingle and stucco paints and china flat oil paints. 18 pp. Illustrated. Size, 3½ x 6½ in.
- The Muralo Company, Inc.**, 570 Richmond Terrace, Staten Island, N. Y.
1286. *Mural-Text*. Folder describing the use of Mural-Text a plastic composition designed to produce textured wall surfaces in color and high and low relief. Mural-Text is a dry powder, mixed with cold water on the job. 8 pp. Illustrated. Size, 3½ x 6½ in.
1287. *Muralo*. Series of folders describing Muralo Wall Coating, Muralo Wall Size, Muralo Patching Plaster, Muralo Relief Compound, Muralo Relief Bulb, Indelible Weather-resisting Cold Water Paint, King's Perfected Cold Water Paint, Salamander Fireproof Cold Water Paint, Cyclo Painting Machines. Color samples where applicable are included. Each folder 3½ x 6 in.

**National Lead Company**, 111 Broadway, New York City.

1342. *Cyclopedia of Paint Information*. A valuable booklet on paint and painting containing estimating data, formulae for exterior roof painting, interior wall painting, interior wood finishing, brick, stone, concrete and stucco painting, metal painting, miscellaneous painting and chapters on general painting and facts and useful information. A. I. A. File No. 25. 40 pp. Size, 7½ x 10½ in.
1344. *Standard Specification for the use of Red-Lead Paint*. A valuable booklet for the specification writer covering the use of red-lead paint. A. S. T. M. and government specifications for linseed oil, drier, turpentine and red-lead are included. A. I. A. File No. 25a23 or 25c3. 22 pp. Size 7½x10½ in.
- Peaslee-Gaulbert Company**, Louisville, Ky.
909. *Architects' Specification Chart*. A series of 100 specifications for exterior and interior painting and finishing on all kinds of materials. 87 pp. Size, 8½ x 11½ in.
910. *Interior Decoration. Wood Finishing. House Painting*. Three catalogs containing colored combination charts for paints, stains and wall finishes. 20, 20 and 24 pp. Illustrated. Size, 9 x 12, 6½ x 8½, and 7 x 9 in.
- Pratt & Lambert, Inc.**, Buffalo, N. Y.
759. *Specification Manual for Painting, Varnishing and Enameling*. Complete specifications for painting, varnishing and enameling interior and exterior wood, plaster and metal work. A helpful reference book for specification writers. 38 pp. Size, 7½ x 10½ in.

**L. Sonneborn Sons, Inc.**, 114 Fifth Ave., New York City.

892. *Interior and Exterior Painting and Structural Painting*. Bulletins of specifications for interior and exterior paints, and paints for structural work, technical paints and roof protection. Sent on request on business stationery. In folders. Size, 8½ x 11 in.

**The Truscon Laboratories**, Detroit, Mich.

921. *Assortment of Color Cards*. Information and specifications on the following materials: Bar-Ox Inhibitive Steel Paint—3½ x 6½ in. 4 pp. Asepticote Interior Flat Wall Paint 8 pp. 3½ x 8½ in. Stone-Tex Exterior Masonry Paint. 8 pp. 3½ x 6½ in. Waterproof Enamels, 4 pp., 3½ x 6½ in. Waterproof House Paint, 8 pp. 3½ x 8½ in. Waterproof Varnish. 8 pp. 3½ x 6½ in. Illustrated.

## 26. GLASS AND GLAZING

- American Window Glass Company**, Pittsburgh, Pa.
1365. *Window Glass in the Making* by William L. Monro. The story of glass from its origin and composition to its manufacture and uses. Appendix contains U. S. Government Master Specification No. 123 flat glass for glazing purposes with comment. An informative booklet that invites the reader 105 pp. Illustrated. Size 5x7¾ in.
- Detroit Show Case Co.**, Detroit, Mich.
78. *Details*. Sheets of full size details of "Desco" awning transom bar covers, sill covers, side, head and jamb covers, ventilated hollow metal sash and profile of members. Size, 16 x 21½ in. 3 sheets.
1368. *Desco Metal Store Fronts*. Catalogue No. 627 contains illustrations, detail drawings of metal sections, installation details and suggested designs for show window layouts to meet different conditions. A. I. A. File No. 26b1. 40 pp. Illustrated. Size 8½x11 in.
- The Kawneer Company**, Niles, Mich.
1333. *Copper Store Front Construction*. Catalog K, 1927 edition. Details and photographic views of Kawneer copper store front construction. Full size detail sheets of Kawneer store front construction prepared for tracing. Sheets are 17 x 22 in. Catalog 32 pp. Illustrated. Size 8½ x 11 in.
- Mississippi Wire Glass Co.**, 220 Fifth Ave., New York City.
1015. *Mississippi Service*. A complete catalog illustrating the wire glass products and their adaptability for various uses. Technical data and sizes. 32 pp. Illustrated. Size, 4 x 8½ in.
1016. *Factrolite*. Circular showing tests of light distribution through "Factrolite" wire glass for industrial plants. Also fire resisting qualities. 4 pp. Illustrated. Size, 6 x 9 in.

## 27. HARDWARE

- P. & F. Corbin**, New Britain, Conn.
1193. *Early English and Colonial Hardware*. Reproductions of historic originals and design based upon wrought-iron hardware precedent, made in rustless metal reproducing the surface and color of the wrought iron originals. Latches, knobs, handles, knockers, hinges, key plates and other articles for doors, windows, shutters and cupboards are illustrated by dimensioned sketches. A. I. A. File No. 27b. 30 pp. Illustrated. Size, 8½ x 11 in.
1283. *General Catalog No. 27*. Listing and illustrating builders' hardware, revised to conform with products now being manufactured. Certain articles have been eliminated and others have been added. This is a valuable hardware reference book. 486 pp. Illustrated. Bound in board covers. Size, 8½ x 11 in.
- Richards-Wilcox Mfg. Co.**, Aurora, Ill.
897. *Special Purpose Hinges, Catalog No. 42*. Devoted exclusively to special purpose hinges for every purpose. Hinge problems solved by Engineering Department, catalog sent on request. 26 pp. Illustrated. Size, 8½ x 11 in.
939. *Big Door Hardware Catalog No. 41*. This catalog describes a complete line of hardware and hangers for accordion, parallel sliding, vertical bi-folding and other types for large openings in round houses, freight houses, shipping rooms, mills and warehouses. Also overhead trolley equipment. 24 pp. Illustrated. Size, 8½ x 11 in.
940. *Sliding and Folding Partitions Door Hardware. Catalog No. 40*. A complete line of hardware for partition doors of all kinds and for all places. Description, details and directions for ordering. 32 pp. Illustrated. Size, 8½ x 11 in.

## REFERENCE LIST OF BUSINESS LITERATURE—Continued

**27. HARDWARE—Continued**

988. *Singleknob Garage Door Controller*. Catalog describing garage door operator by which one or both of a pair of doors can be opened and held in that position. 4 pp. Illustrated. Size, 8 x 11 in.
- Samson Cordage Works**, Boston, Mass.
586. *Samso Sash Cord*. Specifications and condensed descriptions of Samson spot window sash cords. Samson mahogany wire center sash cord and accessories. 24 pp. Illustrated. Size, 3½ x 6½ in.
- Sargent & Company**, New Haven, Conn.
1145. *Sargent Locks and Hardware 1926 Catalog*. Fully illustrates Sargent finishing and builders' hardware, locks, butts, bolts, trim, etc. Book contains much valuable data and detail drawings for standard hardware. 534 pp. Illustrated. Size, 9 x 12 in.
- The Stanley Works**, New Britain, Conn.
11. *Wrought Hardware*. This catalog describes additions to the Stanley line of Wrought Hardware, as well as the older well-known specialties and various styles of butts, hinges, bolts, etc. 376 pp. Illustrated. Size, 6½ x 9½ in.
12. *Garage Hardware, Booklet, illustrated*. Garages and their equipment, such as hinges, hasps, door holders, latch sets, chain and hand bolts, showing illustrations and text with dimensions of garages, describing the Stanley works product. Size, 6 x 9 in. 24 pp.
495. *Stanley Detail Manual*. A catalog in looseleaf binder, consisting of five sections on Butts, Bolts, Blinds and Shutter Hardware, Stanley Garage Hardware, Screen and Sash Hardware. Detail drawings are given, showing clearances and other data needed by detailers. 116 pp. Illustrated. Size, 7½ x 10½ in.
- Vonegut Hardware Co.**, Indianapolis, Ind.
747. *Von Duprin Self-Releasing Fire Exit Latches, Reference Book—No. 240*. A complete catalog with details of the working part of these latches, handle bars, door holders and accessories. Dimensions and installation direction. 96 pp. Illustrated. Size, 8½ x 11 in.

**28. FURNISHINGS**

- American Seating Co.**, 14 East Jackson Blvd., Chicago, Ill.
868. *School Furniture, Catalogs 255 and 56*. Catalogs illustrating school house seating (No. 255), and a complete line of school-house furniture and supplies (No. 56). 32 and 104 pp. Illustrated. Size, 8½ x 11 and 6 x 9 in.
869. *Assembly Chairs*. Three catalogs illustrating all types of portable and fixed assembly chairs and seats, including tablet arm chairs, for all kinds of places and uses. 32, 16 and 33 pp. Illustrated. Size, 6 x 9 in.
- The Columbus-Union Oil Cloth Co.**, Columbus, Ohio.
1374. *Wall-Tex-Permanent Wall Covering*. Folder illustrates two patterns of Wall-Tex, an oil coated fabric for walls, and reproduces two letters of recommendation from architects. 4 pp. Illustrated. Size, 8½ x 11 in.
- Hardwick & Magee Company**, 650 W. Lehigh Ave., Philadelphia, Pa.
826. *Fine Carpets in Famous Places*. A beautifully illustrated catalog describing the varieties of the Hardwick and Magee Co.'s Wilton carpets and rugs for hotels, theatres, lodge halls, clubs, churches, hospitals and railroad cars. 24 pp. Illustrated. Size, 8 x 10½ in.
1098. *Cameo Wilton Rugs*. Color plates of unusual small rugs in round, oval and half-oval shapes. Excellent in design, shape and color. Twenty-four (24) plates in color. Size, 7¼ x 10½ in.
- Kent-Costikyan**, 585 Fifth Ave., New York City.
954. *The House of Kent-Costikyan*. A booklet describing the various types and grades of carpets and rugs, including antique rugs of the Ispahan and Kuba types, in the extensive stocks of this company. 16 pp. Illustrated in color. Size, 5½ x 8 in.
- The Lincrusta-Walton Company**, Hackensack, N. J.
519. *Lincrusta-Walton*. This book gives directions for buying, caring for and applying Lincrusta-Walton; together with color chart and many pages showing patterns. 67 pp. Size, 8½ x 11 in. Illustrated. Bound in boards.
- The B. L. Marble Chair Co.**, Bedford, Ohio.
973. *Office Chairs, Catalog No. 32*. Revised and enlarged catalog of chairs for lodges, court rooms, directors' rooms, every kind of office chairs, costumers', waste boxes, settees and accessories. 88 pp. Illustrated. Size, 9½ x 12 in.
- Charles W. Poulson & Sons Carpet Co.**, 295 Fifth Ave., New York City.
1062. *Character in Carpet*. A booklet illustrated in color and descriptive of Claridge wide seamless carpet and "Hermitage" high pile Wiltons. 22 pp. Illustrated. Size, 9½ x 12¼ in.
- Wallpaper Manufacturers Association of the United States**, 461 Eighth Ave., New York City.
913. *Wallpaper Magazine*. A monthly publication for architects, building contractors and wallpaper dealers to acquaint them with the many interesting and artistic uses for wallpaper. 32 pp. Illustrated. Size, 8 x 11 in.
- Watson Manufacturing Co.**, Jamestown, N. Y.
788. *Watson Metal Office Furniture*. Catalog describing steel furniture for offices, banks and public buildings. Installations illustrated. 55 pp. Illustrated. Size, 8½ x 11 in.
- Henry Weis Manufacturing Co., Inc.**, Elkhart, Ind.
1338. *Goodwill and Income from "Between Type" Patents*. Booklet illustrating and describing Weisteel Cubicals and their use in hospitals. This booklet is of particular interest to architects designing hospital buildings. 20 pp. Illustrated. Size 8½ x 11 in.

1339. *Weisteel Compartment Catalog No. 12, 1927 Edition*. Complete description of the design, construction and erection of Weisteel compartments for toilets, showers, dressing rooms and hospital cubicals. Details and sizes of stock units, suggested layouts and specifications are included. A. I. A. File No. 28a3. 11 pp. Illustrated. Size 8½ x 11 in.

**29. PLUMBING**

- W. D. Allen Mfg. Co.**, 566-570 West Lake St., Chicago, Ill.
1130. *Allen on Fire Protection*. A. I. A. File No. 29e2. Folder containing data, specifications, detail drawings and dimensions of hose cabinets designed for various types of equipment. Catalog includes notes on underwriters' requirements, hose racks, valves, couplings, details of fire pump and single standpipe system, etc. A valuable book of practical information for architects' files. 24 pp. Illustrated. Size, 8½ x 11 in.
- American Brass Co.**, Waterbury, Conn.
862. *Brass Pipe for Water Service, Publication B-1*. A compilation of data on corrosion of various kinds of pipe and the value of Anaconda Brass Pipe for permanent service, also comparative cost estimates. 31 pp. Illustrated. Size, 8½ x 11 in.
- The American Pin Co.**, Div. Scovill Mfg. Co., Waterbury, Conn.
1150. *Ampinco Showers and Bath Fixtures*. A. I. A. File No. 29h3. Loose leaf catalog. Secured in cover backs giving dimensions and roughing in measurements of M-VB Temperators, Ampinco showers of various types, valve parts, bath tub supplies and wastes and combination bath fixtures and showers. A booklet for the files. 56 pp. Illustrated. Size, 8½ x 11 in.
- J. H. Balmer Co.**, 259 Plane St., Newark, N. J.
1028. *China Necessities*. Catalog of bath room accessories consisting of towel racks; shelves; tooth brush, tumbler and soap holders, hand rails, hooks and paper holder. 24 pp. Illustrated. Size, 8½ x 11 in.
- The Beaton & Cadwell Mfg. Co.**, New Britain, Conn.
913. *"Genuine" Perfection Line, Catalog No. 7*. A catalog describing a complete line of Simplex Flush valves, automatic air valves, floor and ceiling plates, towel bars, pipe hangers and accessories. 90 pp. Illustrated. Size, 4 x 6 in.
- A. M. Byers Company**, Pittsburgh, Pa.
679. *What is Wrought Iron? Bulletin 26-A*. Contains the definition of wrought iron, methods of manufacture, chemical and physical characteristics; advantages of wrought iron as a pipe material; service records from old buildings equipped with Byers Genuine Wrought Iron Pipe. How to tell the difference between iron and steel pipe. 40 pp. Illustrated. Size, 8 x 10½ in.
680. *The Installation Cost of Pipe, Bulletin 38*. Contains cost analysis of a variety of plumbing, heating, power and industrial systems, with notes on corrosive effects in different kinds of service. 32 pp. Illustrated. Size, 8 x 10½ in.
- Crampton Farley Brass Co.**, 221 Main St., Kansas City, Mo.
194. Several pamphlets describing various types of floor and area-way drains. Size, 3½ x 6½ in.
- Dahlquist Manufacturing Co.**, South Boston, Mass.
1229. *Dahlquist Data Book*. Catalog describing and pricing the Patented Aquatherm, 25-year guaranteed copper range boilers, and complete line of hot water heating combinations for gas, electricity, coal and kerosene. 16 pp. Illustrated. Size, 3½ x 6 in.
- Dayton-Dowd Company**, Quincy, Ill.
1318. *Dayton-Dowd Sump Pumps and Sewage Ejectors*. Single and duplex styles. Bulletin No. 264 contains table of standard sizes, brief description and typical specifications of Dayton-Dowd type SSV sump pumps and sewage ejectors. A. I. A. File No. 29-c-1. 4 pp. Illustrated. Size 7½ x 10½ in.
- The Durlon Co.**, Dayton, Ohio.
1309. *Duriron Drain Pipe and Fittings, Bulletin No. 134-B*. Bulletin describing the physical properties, details and specifications for drain pipe and fittings which are non-corrosive to acid, alkali and other chemical wastes of industrial plants, laboratories, hospitals and colleges. 20 pp. Illustrated. Size, 8½ x 11 in.
- Economy Pumping Machinery Co.**, 122 North Curtis St., Chicago, Illinois.
1312. *Economy Centrifugal Double Suction Pumps and Economy Horizontal Split Case Multi Stage Centrifugal Pumps*. Two booklets giving details of construction, capacities, and other technical data. 12 pp. and 4 pp. Illustrated. Size 8½ x 11 in.
1313. *Economy Centrifugal Sump Pumps for automatic ejection of seepage and sewage*. Bulletin No. 407 briefly describes the construction and installation of Economy sump pumps. Suggested specifications and technical data are included. 16 pp. Illustrated. Size 8½ x 11 in.
- Excelso Products Corporation**, 65 Clyde Ave., Buffalo, N. Y.
843. *Excelso Quality Water Heaters*. Catalog describing a complete line of water heaters to be attached to furnaces, steam and hot water heating boilers. 8 pp. Illustrated. Size, 3½ x 6½ in.
- Hess Warming & Ventilating Co.**, 1207 to 1229 South Western Avenue, Chicago, Ill.
860. *Hess Snow-White Steel Cabinets and Mirrors*. A catalog with details of construction, dimensions, weights and prices of Snow-White steel cabinets of various styles and mirror access doors and frames to pipe shaft. 16 pp. Illustrated. Size, 4 x 6 in.
- Jenkins Bros.**, 80 White Street, New York.
1153. *Jenkins Valves for Low Cost Valve Service*. An illustrated folder in color, showing various types of valves suitable for every purpose on steam, water, air or gas. Form 100. 16 pp. Size 3½ x 6½ inches.

## REFERENCE LIST OF BUSINESS LITERATURE—Continued

## 29. PLUMBING—Continued

**The Kennedy Valve Mfg. Co.,** Elmira, N. Y.

801. *Kennedy Valves. Catalog No. 48.* A catalog illustrating a complete line of gate, globe and angle, check, back-water and sewer-gas valves for every purpose. Dimensions, details and specifications. 204 pp. Illustrated. Size, 5 x 8 in.
802. *Kennedy Pipe Fittings. Catalog No. 48.* A catalog describing a complete line of malleable iron and cast-iron flanged pipe fittings, reducers and cast-iron flanges for every purpose. Details, dimensions and drilling templates. 204 pp. Illustrated. Size, 5 x 8 in.
803. *Kennedy Fire Hydrants. Catalog No. 48.* A catalog describing a complete line of fire hydrants and accessories. Details, dimensions and installation directions. 204 pp. Illustrated. Size, 5 x 8 in.

**National Paper Products Co.,** Carthage, N. Y.

1360. *Architectural Specifications.* Toilet Tissue and Paper Towel Installations. File Folder containing brief but complete information for specifying and installing Twinpax and No-Waste toilet tissue and Public Service paper towel holders. Price list included in A. I. A. File No. 2913. 12 pp. Illustrated. Size 8½ x 11 in.

**The Permutt Company,** 440 Fourth Ave., New York City.

105. *Permutt (Water Rectification Systems.)* Illustrated booklet. Describes all methods of softening water, including the original Zeolite process. For homes, hotels, apartment houses, swimming-pools, laundries, and industrial plants. Size, 8½ x 11 in. 32 pp.

**Reading Iron Co.,** Reading, Pa.

1112. *Handbook and Price List of Reading Wrought Iron Pipe and Fittings.* Tables of sizes and other data including specifications. 50 pp. Illustrated. Size, 5 x 7 in.

1113. *Reading Wrought Iron Pipe.* In the making and in service. Bulletin No. 1. Booklet covering historical data, manufacture of Reading pipe, advantages of wrought iron pipe, uses of wrought iron pipe, model specifications. Reading Iron Co., guarantee and mill specifications for wrought iron standard pipe. 32 pp. Illustrated. Size, 8½ x 11 in.

**Ruud Manufacturing Co.,** Pittsburgh, Pa.

1254. *Ruud Automatic Gas Water Heaters.* Form No. 860. General catalog illustrating and describing all types of Ruud automatic gas water heaters, including essential dimensions and other data. 40 pp. Illustrated. Size, 8 x 10½ in.

1255. *Ruud Gas Water Heaters—Architects' Bulletin No. 16.* Data fastened in file folder indexed A. I. A. File No. 2942. Complete data for selecting, installing and specifying Ruud gas water heaters. Informative literature for filing. 22 pp. Illustrated. Size, 8½ x 11 in.

**The Soil Pipe Association,** Brown-Marx Bldg., Birmingham, Ala.

1298. *Avoid Hidden Danger.* Booklet describes the advantages of cast iron for soil, waste and vent pipes and sets forth its adaptability for use in all types of buildings. A chapter on the corrosion of metals is included. 16 pp. Illustrated. Size, 8½ x 11 in.

**The Whitlock Coil Pipe Co.,** Hartford, Conn.

1046. A looseleaf folder of water storage heaters, preheaters, water treatment, details and sales manual. 16 pp. Illustrated. Size, 8½ x 11 in. Bulletins, looseleaf, details and data water heaters and fuel oil heaters. 52 pp. Illustrated. Size, 5½ x 8½ in.

**Zahner Manufacturing Co.,** Kansas City, Mo.

1323. *For Better Homes—Metal Sinks—Shower Doors.* Booklet illustrates, describes and gives dimensions of kitchen and pantry sinks of different types, and glass and metal shower bath doors with metal angle buck. Loose sheets containing illustrations, details and specifications, indexed with the A. I. A. File No. 29-h, are included. 16 pp. Illustrated. Size 8½ x 11½ in.

## 30. HEATING AND VENTILATING

**American Gas Products Corp.,** 376 Lafayette St., New York City

1238. *Line in the House that Gas Heats.* Booklet describes Ideal Gas boilers, made in various sizes from 225 sq. ft. to 8,000 sq. ft. steam rating or 375 to 13,000 sq. ft. hot water rating. Ratings, dimensions and assembly drawings are included. 8 pp. Illustrated. Size, 8½ x 11 in.

**The American Nokol Company,** 215 North Michigan Ave., Chicago, Ill.

1371. *A New Guide To Oil Heat for Homes.* A non-technical compilation of information and data on the subject of oil heating for houses. A practical guide to oil heat including advantages, cost estimates and principles upon which oil for house heating is based. 32 pp. Illustrated. Size, 8½ x 10½ in.

1372. *Automatic Oil Heat.* Detailed specifications, complete description and technical data for architects and engineers on Nokol Automatic Oil Burners. A practical booklet for filing and reference. 24 pp. Illustrated. Size, 8½ x 10½ in.

**American Radiator Co.,** 40 West 40th St., New York City.

427. *Ideal-Arcola Heating Outfit.* A book describing a system of hot water heating for small and medium size houses. The boiler is placed in a room and resembles a stove. No cellar required. The ash carrying reduced to a minimum. 24 pp. Illustrated. Size, 6 x 8½ in.

**Buckeye Blower Co.,** Columbus, Ohio.

960. *Heatvent System. Bulletin No. 123.* Illustrating individual heating and ventilating units for schools and places of public assemblage. Engineering data, details and specifications. 14 pp. Illustrated. Size, 8 x 10½ in.

**Buffalo Forge Company,** 490 Broadway, Buffalo, N. Y.

976. *Fan Engineering.* An engineering handbook in three parts: Physical properties of air, heat and humidity; air movement for heating, ventilation, forced draft, etc.; performance tables and general information concerning standard apparatus for fan work; appendix, tables. 610 pp. Illustrated. Size, 4½ x 7 in. Price, \$4.00.

1190. *Carrier Air Washers and Humidifiers, Catalog No. 480.* containing description, technical information, charts, dimensions and capacities of air washing and humidifying equipment. A valuable booklet for filing and reference. 54 pp. Illustrated. Size, 8½ x 11 inches.

**Burnham Boiler Corporation,** Irvington, N. Y.

800. *Letters To and Fro.* A booklet which explains the difference between steam, hot water and vapor systems of heating and the relative cost of each. Questions, answers and boiler data. 34 pp. Size, 7 x 10 in.

**Dahlquist Manufacturing Co.,** South Boston, Mass.

1230. *Special Copper Boiler* installations of 2,000 gallons or larger. Pressure tested, heaviest Lake copper. Also expansion joints. 4 pp. Illustrated. Size, 6 x 6½ in.

**The Durlon Company,** Dayton, Ohio.

1009. *Durlon Ventilating Fans and Hoods. Bulletin No. 140.* Bulletin describing a line of electrically driven exhaust fans for use with acid and other corrosive fumes in industrial plants and laboratories. Also non-corrosive equipment for laboratory hoods. 20 pp. Illustrated. Size, 8½ x 11 in.

**Electrol, Inc., of Missouri,** St. Louis, Mo.

1261. *Heat, How and When You Want It.* Oil heating with the Electrol. Booklet illustrating and describing the Electrol all electric oil burner for use in residences, public buildings, commercial and industrial buildings. Partial list of installations of electrol is given. Specifications of the equipment are included. 20 pp. Illustrated. Size, 6 x 9 in.

**The Frost Manufacturing Co.,** Galesburg, Ill.

1143. *Ross Steel Boilers, Catalog 4A.* Describes Ross steel boilers for steam or hot water heating, smokeless for coal or oil burning. Dimensions and data for boilers of steam ratings from 400 to 27,000 sq. ft. or hot water, 640 to 43,200 square feet. 16 pp. Illustrated. Size, 6 x 9 in.

1144. *Frost Boilers, Catalog No. 172.* Illustrates and describes frost horizontal tubular boilers for 100 and 150 pounds working pressure. Details, measurements and tables of brick quantities required for setting. 32 pp. Illustrated. Size, 8½ x 11 in.

**General Electric Co.,** Schenectady, N. Y.

1128. *Visual Supervision for Ventilation Control.* Bulletin GEB-11 on the advantages of remote indicating control to the owner. 4 pp. Illustrated. Size, 5½ x 7¾ in.

**Gillis & Geoghegan,** 545 West Broadway, New York City.

969. *The G & G Telescopic Hoist.* A catalog containing specifications in two forms: (1) using manufacturer's name, and (2) without using manufacturer's name. Detail in ¼-inch scale for each telescopic model and special material handling section. Fully illustrated with photographs of actual installations and descriptive matter of same. 24 pp. 2 colors. Illustrated. Size, 8½ x 11 in.

**Hardinge Brothers, Inc.,** 4149 Ravenswood Ave., Chicago, Ill.

1258. *Hardinge Fuel Oil Burner: from Bungalow to Skyscraper.* Booklet illustrating and describing the Hardinge fuel oil burner, including the history of Hardinge and advantages of this burner. For domestic and industrial heating plants. 20 pp. Illustrated. Size, 8½ x 11¼ in.

**Hart & Cooley Mfg. Co.,** New Britain, Conn.

1065. *Wrought Grilles. Folder No. 8.* Bulletin containing examples of the best methods of installing grilles under conditions most commonly encountered, details and specifications. 6 pp. Illustrated. Size, 8½ x 11 in.

1379. *H. & C. Wrought Steel Warm Air Registers.* Catalog No. 27 covers the complete line of H. & C. warm air registers and includes descriptions, illustrations, tables of sizes and price list. 62 pp. Illustrated. Size, 7¾ x 10 in.

**Heggle Simplex Boiler Co.,** Joliet, Ill.

1070. *Catalog No. 26.* Heggis-Simplex Electric Welded Steel Heating Boilers. Descriptive illustrations and detailed data on size, ratings, etc. 22 pp. Illustrated. Size, 8½ x 10¼ in.

**Hess Warming and Ventilating Co.,** 1207-1229 South Western Ave., Chicago, Ill.

178. *Modern Furnace Heating.* An illustrated book on the Hess Welded Steel Furnaces. Pipe and Pipeless, notes for installation, sectional views, showing parts and operation, dimensions, register designs, pipes and fittings. Size, 6 x 9½ in. 48 pp.

**Illinois Engineering Co.,** 21st St., Racine Ave., Chicago, Ill.

1280. *Vapor Details Bulletin 22.* A concise and simple explanation of True Vapor Heat, describing Illinois Heating Systems and Vapor Specialties. Contains a great deal of Engineering information with detail sheets relative to the installation of Heating Systems in various types of office and residential buildings. It also gives standards for computing radiation and boiler sizes compiled by the Standardization Committee of the Chicago Master Steamfitters' Association. A. I. A. File No. 30c2. 24 pp. Illustrated. Size, 8½ x 11 in.

1281. *Illinois Engineering Company Bulletins.* Bulletin 14, Steam Heating Specialties; 45, Non Return Valves; 103, Pressure Reducing Valves; 203, Back Pressure and Relief Valves; 33, Eclipse Steam Traps; 53, Separators, Oil and Steam; 703, Eclipse Pump Governors, Balanced Valves. Number of pages varies. Illustrated. Size, 8½ x 11 in.

**Jenkins Bros.,** 80 White Street, New York.

1152. *Jenkins Fig. 700 Modulating Valve.* A Bulletin descriptive of a new supply control radiator valve for low pressure steam, vacuum, and vapor heating. A. I. A., file number 30-C-2. 4 pp. Illustrated. Size 8½ x 11 inches.

## REFERENCE LIST OF BUSINESS LITERATURE—Continued

**30. HEATING AND VENTILATING—Continued**

**Johnson Service Company**, 149 Michigan St., Milwaukee, Wis.

**391. *The Regulation of Temperature and Humidity.*** A description of the Johnson System of temperature regulation and humidity control for buildings; showing many kinds of thermostatic appliances for automatically maintaining uniform temperature. 63 pp. Illustrated. Size, 8½ x 11 in.

**392. *Johnson Electric Thermostat, Valves and Controllers.*** A catalog of devices mentioned in the title. 24 pp. Illustrated. Size, 3½ x 6 in.

**Kewanee Boiler Co.**, Kewanee, Ill.

**840. *Kewanee Boilers.*** Catalog 78, Firebox Boilers; Catalog 79, Power Boilers; Kewanee Boilers in Omaha Schools. Complete details, dimensions, setting diagrams, designing data, specifications and accessories. 52, 34 and 16 pp. Illustrated. Size, 6 x 9 in.

**841. *Kewanee Radiators and Equipment.*** Catalog No. 77, Radiators, Catalog 75, Water Heating Garbage Burners. Tobacco Water Heaters and Tanks of all kinds; Selecting the Heating Boiler. Complete details, dimensions, setting diagrams. Designing data and specifications. 24, 30 and 16 pp. Illustrated. Size, 6 x 9 in. and 5 x 8 in.

**Modine Manufacturing Co.**, Racine, Wis.

**1348. *Thermodyne Unit Heater.*** Catalog No. 127 contains complete information, details of construction, dimensions, piping arrangements, capacities, and architectural and engineering data on the Thermodyne Unit Heater. 24 pp. Illustrated. Size 8½ x 11 in.

**National Tube Co.**, Frick Bldg., Pittsburgh, Pa.

**670. *National Bulletin No. 25B. Third Edition.*** Devoted to the installation of steel pipe in large buildings, architectural anti-corrosion engineering, gas piping, specifications and tables of strength and properties. 74 pp. Illustrated. Size, 8½ x 10¼ in.

**The Herman Nelson Corporation (formerly Moline Heat)**, Moline, Ill.

**411. *Univent Ventilation. Architects' and Engineers' Edition.*** A scientific treatise on ventilation for schools, offices and similar buildings; with 40 pages of engineering data on ventilation for architects and engineers. 72 pp.

**1115. *Invisible Radiator, Herman Nelson.*** Book descriptive of the Herman Nelson Invisible Radiator which can be installed in any ordinary wall or partition without special construction. Illustrated in color; 16 pp. Size, 8½ x 11 in. Booklet of mechanical data showing method of installation, tables of standard sizes, sq. ft., radiation equivalent, etc., of the Invisible Radiator for steam, vacuum and vapor systems. 24 pp. Illustrated. Size, 6 x 9¼ in.

**New York Blower Co.**, 2258 South Halsted St., Chicago, Ill.

**1211. *Type ME fan Catalog No. 100*** illustrates and describes type ME air moving apparatus. This catalog contains dimensions and capacity of various size fans and includes specifications and other valuable engineering data. 32 pp. Ill. size 8½ x 11 inches.

**1212. *Comet Unit-Heaters.*** Bulletin No. 85. Folder contains general description, dimensions, general data and capacities of Comet Unit-Heaters. 4 pp. Illustrated. Size, 8½ x 11 in.

**Pacific Steel Boiler Corp. of Illinois**, Waukegan, Ill.

**1071. *Bulletin SC-26.*** Descriptive illustrations and specifications. Pacific Direct Draft and Up Draft Smokeless Boilers; Bulletin OF-26 covers Pacific Oil Fired Boilers; Bulletin RT-26 Pacific Steel Residence Boilers; and DD-26 Pacific Down Draft Boilers.

**Peerless Unit Ventilation Co., Inc.**, Skillman Ave., and Hulst St., Long Island City, N. Y.

**1048. *PeerVenti Heating and Ventilating Units.*** Booklet descriptive of Unit heating and ventilating units, mechanical features and advantages. Directions for laying out unit systems, complete engineering data and details of standard units. 62 pp. Illustrated. Size, 8½ x 10¼ in.

**1335. *Peerless Industrial Unit Heaters for factories, mills, garages and other industrial buildings.*** Catalog illustrates and describes Peerless Unit Heaters and their use in industrial buildings. Engineering data and installation dimensions are included. 16 pp. Illustrated. 8½ x 11 in.

**Richardson & Boynton Co.**, New York, N. Y., Chicago, Ill. Philadelphia, Pa., Providence, R. I., Boston, Mass.

**290. *The Richardson Vapor Vacuum-Pressure Heating System.*** An interesting book which presents in clear non-technical language the principles of Vapor-Vacuum-Pressure heating; the economy over ordinary steam heating, steam and hot-water systems may be altered to use the principle with views of buildings where the V-V-P system is installed. 14 pp. Illustrated. Size, 8 x 11 in.

**1362. *70 Degrees in Zero Weather.*** Winter Comfort guaranteed by Bond. Booklet describes the advantages and construction of the Richardson Perfect Positive Air-Circulating Heater. Specifications and copy of guarantee Bond are included. 20 pp. Illustrated. Size, 8½ x 11 in.

**Rome Brass Radiator Corporation**, 1 E. 42d St., New York City.

**1367. *The Robras 20-20.*** Booklet describes the development and construction of the Robras 20-20 brass radiator. 12 pp. Illustrated. Size, 4 x 9 in.

**B. F. Sturtevant Co.**, Hyde Park, Boston, Mass.

**1084. *Multivane Fans. Catalog No. 271.*** A-IA File No. 30-d1. Catalog gives dimensions, capacities, horse-powers, performance tables, specifications and detail description of Multivane fans. Design No. 3. 96 pp. Illustrated. Size, 8½ x 11 in.

**1085. *Silentvane Fans. Catalog No. 290.*** Illustrates and describes fans as installed in ventilating systems of buildings shown. Catalog includes Designs 1 and 2 with performance tables, dimension sheets and specifications. A-IA File No. 30-d1. 92 pp. Illustrated. Size, 8½ x 11 in.

**The Thatcher Co.**, Thatcher Bldg., 39 St. Francis St., Newark, N. J.

**748. *Thatcher Boilers and Thatcher Furnaces.*** Catalog describing a series of cast-iron steam and hot water heating boilers and also one describing a series of cast-iron warm air heaters. Accessories, details and dimensions. 80 pp. and 24 pp. Illustrated. Sizes, 4½ x 7½ and 8½ x 11 in.

**1285. *Helpful Hints on Choosing your Heater and Economical Warmth.*** Booklets on the subject of house heating of interest to architects and their clients. 20 pp. and 8 pp. Illustrated. Size, 3½ x 6¼ in.

**Williams Oil-O-Matic Heating Corp.**, Bloomington, Ill.

**1236. *Oil Heating—What it means to the architect.*** A booklet of facts and information on the subject of oil burning equipment for heating and data pertaining to the Williams Oil-O-Matic Oil Burner with suggested specifications. Indexed for filing. A. I. A. File No. 30g1. 24 pp. Illustrated. Size, 8½ x 11 in.

**Young Pump Co.**, 450 East Ohio St., Chicago, Ill.

**1232. *Young Centrifugal Vacuum and Boiler Feed Pump.*** Bulletin No. 6. Electrically driven centrifugal vacuum and boiler feed pumps described and illustrated. Capacities, dimensions and specifications are included. 16 pp. Illustrated. Size, 8 x 11 in.

**31. ELECTRICAL WORK**

**Frank Adam Electric Co.**, St. Louis, Mo.

**629. *The Control of Lighting in Theatres.*** A book describing means for complete control of lighting the stage, auditorium and other parts of the theatres with distribution schedules and specifications. Also specifications of control to Masonic buildings, schools and colleges. 32 pp. Illustrated. Size, 8 x 11 in.

**1361. *Panelboards and Cabinets.*** Catalog No. 40. Contains list prices and illustrations of a complete line of one and two fuse type panelboards and steel box cabinets, including meter control panelboards. Other electrical equipment is also shown and described. A. I. A. File No. 31c3. 72 pp. Illustrated. Size, 7¼ x 10¼ in.

**1380. *Fuse Blocks, Knife Switches, Flush Range Switches.*** Catalog No. 41. Description and data. A. I. A. File No. 31c33. 32 pp. Illustrated. Size, 7¼ x 10¼ in.

**American Steel & Wire Company.** Continental & Commercial National Bank Building, Chicago, Ill.

**1149. *Electric Wires and Cables.*** Catalog and handbook of systems of wiring. Booklet illustrates and gives detail information on different types of wires from copper trolley wire and insulated copper wire to lead covered cables. Tables of wire gauges and useful data on electric wiring are also included. 134 pp. Illustrated. Size, 6 x 9 in.

**Enameled Metals Co.**, Pittsburgh, Pa.

**584. *Pittsburgh Standard Rigid Conduit.*** A catalog describing patented thread protected enameled conduit and galvanized conduit with specifications and useful wiring data. 31 pp. Illustrated. Size, 6¼ x 9½ in.

**The Frink Co., Inc.**, 24th St. and 10th Ave., New York City.

**150. *Light Service for Hospitals. Catalog No. 426.*** A booklet illustrated with photographs and drawings, showing the types of light for use in hospitals, as operating table reflectors, linolite and multiple concentrators, ward reflectors, bed lights and microscopic reflectors, giving sizes and dimensions, explaining their particular fitness for special uses. Size, 7 x 10 in. 12 pp.

**218. *Picture Lighting. Booklet No. 422.*** A pamphlet describing Frink Reflectors for lighting pictures, art galleries, decorated ceilings, cove lighting, the lighting of stained glass, etc., and containing a list of private and public galleries using Frink Reflectors. 24 pp. Illustrated. Size, 5½ x 7 in.

**219. *Frink Reflectors and Lighting Specialties for Stores. Catalog No. 424.*** A catalog containing a description of the Frink Lighting System for Stores; the Synthetic System of Window Illumination; and a number of appliances to produce the most effective lighting of displayed objects. 20 pp. Illustrated. Size, 8 x 11 in.

**220. *Frink Lighting Service for Banks and Insurance Companies. Reflectors. Catalog No. 425.*** A very interesting treatise on the lighting of offices; with details of illustrations and description of lamps and reflectors. Contains a list covering several pages of banks using Frink Desk and Screen Fixtures. 36 pp. Illustrated. Size, 8½ x 11 in.

**General Electric Co.**, Schenectady, N. Y.

**1129. *General Electric Catalog 6001B.*** A complete catalog of electrical material, equipment and appliances made by G. E. catalog is conveniently thumb-indexed and bound in boards. A valuable volume for all who specify, buy or install electrical equipment. 1104 pp. Illustrated. Size, 8 x 10¼ in.

**Gleason-Tiebout Glass Co.**, Fifth Ave. Bldg., New York City.

**1256. *Enclosing Globes.*** Lighting glassware. Booklet illustrates and gives sizes of plain and decorated enclosing glass globes of various shapes and designs. Fragment of Celestialite glass will be sent upon request. 24 pp. Illustrated. Size, 9 x 12 in.

**1257. *Gletian—Lighting Glassware.*** Booklet illustrates various shapes and designs of lighting glassware made in Gletian or Celestialite glass with brown, blue, green, coral or gray decorations in glass or mat finishes. Fragment of Celestialite glass will be sent upon request. 16 pp. Illustrated. Size, 9 x 12 in.

**Graybar Electric Co.**, 100 E. 42d St., New York.

**1052. A complete catalog of electrical supplies distributed by the Graybar Electric Company.** The 1925 edition of the "National Electric Code" of the National Board of Fire Underwriters is included as well as valuable electrical data. 1012 pp. Illustrated. Size, 8 x 11 in.

**1108. *Fan Catalog, 1927,*** for A. C. and D. C. circuits, non-oscillating, oscillating, ceiling and ventilating (exhaust) fans. Descriptive specifications and details. 32 pp. Illustrated. Size, 5½ x 8½ in.

## REFERENCE LIST OF BUSINESS LITERATURE—Continued

## 31. ELECTRICAL WORK—Continued

The Edwin F. Guth Co., St. Louis, Mo.

1185. *Guth Lighting Equipment*. Catalog No. 15, in either bound or loose leaf form, illustrating lighting fixtures suitable for public buildings, hotels, banks, hospitals, schools, residences, etc. A. I. A. File No. 31f23. 96 pp. Illustrated. Size, 8½ x 11 in.

1186. *Aglite and Guthlite*. Folders describing and illustrating the Guthlite Super-Illuminator and Aglite Porcelain Enameled Illuminators. Each folder A. I. A. File No. 31f23. 4 pp. Illustrated. Size, 8½ x 11 in.

The Hart & Hegeman Mfg. Co., 342 Capitol Ave., Hartford, Conn.

1209. *Electric wiring devices, Catalogue S* contains complete information on "H & H" switches, sockets, receptacles and wiring devices. A valuable reference book for the architects' building materials library. 123 pp. Ill. Size 8½ x 11 in.

1355. *A Winning Hand in Plates*. One sheet illustrating and describing the new H. & H. art plates hand etched on heavy brass for switch and convenience outlet cover plates. A. I. A. File No. 31c7. 2 pp. Illustrated. Size 8½ x 11 in.

Harvey Hubbell, Inc., Bridgeport, Conn.

297. *Electrical Specialties, Catalog No. 17, 1921*. This catalog contains descriptions with prices of the thousand and one items connected with electric light, electric alarm and small electric appliance installations in modern buildings. 104 pp. Illustrated. Size, 8 x 10½ in.

401. *Hubbell Flush Door Receptacles*. Description of a safe, convenient and practical wall outlet de luxe for fine residences, clubs, hotels, public buildings and offices. 4 pp. Illustrated. Size, 8 x 10 in.

Kanne & Bessant, 211 East 45th St., New York City.

1294. *Lamps and Shades, Catalog No. 10*. Illustrates reproductions of early American pewter lamps adapted to modern use. Catalog also includes other early American types for both table and floor. In brass, iron and glass. Supplement to Catalog No. 10 includes other lamps and shades, sconces, fire screens and andirons. Over all dimensions of fixtures and lamps are given. Catalog 8 pp.; supplement 20 pp. Illustrated. Size, 6 x 9 in.

Kliegl Bros., 321 West 50th Street, New York City.

1084. *Kliegl Theatrical, Decorative and Spectacular Lighting, Catalog M*. Description of complete line of lighting specialties and lighting effects for stages, etc. Catalog includes stage equipment, exit signs, aisle and step lights, dimmers, switchboards and other special lighting apparatus. 128 pp. Illustrated. Size, 7¼ x 10½ in.

The Lincoln Electric Co., Dept. 11-11, Cleveland, Ohio.

1216. *Lincoln Motors*. Two booklets: (a) motors for electric elevators; (b) "Line-Weld" motors. Both booklets completely describe the construction of motors made of welded steel and contain valuable data on motors and their construction—(a) 2 pp., (b) 26 pp. Illustrated. Size, 7¼ x 11 in.

Pittsburgh Reflector Co., Pittsburgh, Pa.

1101. *Show Window Lighting*. A. I. A. File No. 31f14. Booklet illustrating and describing various types of reflectors, conduit, spot lights, flood lights, and color lights used for show windows. Book contains valuable technical data and details of space required for reflectors, etc. 28 pp. Illustrated. Size, 8½ x 11 in.

1102. *Cove Lighting*. A. I. A. File No. 31f17. Descriptive and apparent candle power distribution diagrams of various types of reflectors used for indirect or cove lighting. Book includes "easy-to-install" conduit, and details of typical cove lighting installations. 24 pp. Illustrated. Size, 8½ x 11 in.

Stromberg-Carlson Telephone Mfg. Co., Rochester, New York N. Y.

304. *Inter-Communicating Telephone Systems, Bulletin No. 1017*. A pamphlet giving just the information required for the installation of intercommunicating systems from 2 to 32 stations capacity. 15 pp. Illustrated. Size, 7¼ x 10 in.

Youngstown Sheet and Tube Co., Youngstown, Ohio.

1017. *Electrical Conduit*. Circular giving complete data about Buckeye Rigid Conduit and Realflex Flexible Steel Armored Cable with specifications. 6 pp. Illustrated. Size, 8½ x 11 in.

## 32. REFRIGERATION

Baker Ice Machine Co., Inc., Omaha, Neb.

661. *Baker System Refrigeration*. A catalog explaining the application of refrigeration for hotels, hospitals, institutions and restaurants requiring up to 50 tons daily capacity including mechanical details and specifications. 20 pp. Illustrated. Size, 9 x 12 in.

Frick Co., Waynesboro, Pa.

1290. *Ice and Frost, Series I, No. 4*. Enclosed type Compressors and Refrigerating Equipment. A brief outline of the advantages and uses of modern mechanical refrigeration. A few installations of Frick equipment are illustrated. 48 pp. Illustrated. Size, 6 x 9 in.

Frigidaire, Dayton, Ohio.

962. *Frigidaire*. Booklet describing installations and details of automatic refrigerating equipment for residential hotels and apartment buildings. 50 pp. Illustrated. Size, 8½ x 11 in.

General Refrigeration Company, Beloit, Wis.

1349. *The ABC of Electrical Refrigeration*. A booklet outlining the history of refrigeration both natural and mechanical. An interesting and simple explanation of the operation of Lipman refrigeration machines is given. This booklet is valuable as an aid toward securing an understanding of modern mechanical refrigeration. 24 pp. Ill. Size 8½ x 11 in.

1350. *Lipman Automatic Refrigeration*. A series of folders setting forth the advantages of the use of Lipman machines for automatic refrigeration as applied to various uses, such as restaurants, hotels, commercial, florists shops, dairies, etc. Each folder 4 pp. Ill. Size 8½ x 11.

Jamison Cold Storage Door Co., Hagerstown, Md.

1271. *Cooler and Freezer Doors, Refrigerator Fronts and Automatic Ice Chutes*. Catalog No. 13. Complete description and information on cold room products, such as standard cooler and sharp freezer doors, fireproof cooler and freezer doors, vestibule doors, vertical sliding cold storage doors, cold storage windows, refrigerator fronts, can passing vestibules, and automatic ice chutes. 70 pp. Illustrated. Size, 8½ x 11 in.

The Jewett Refrigerator Company, 27 Chandler Street, Buffalo, N. Y.

655. *Manual of Refrigerators*. This manual completely describes the construction of refrigerators for use in hotels, clubs, hospitals, institutions and residences, with specifications. Numerous plans showing size and arrangement of refrigerators in kitchens, service and lunch rooms are included. 30 pp. Illustrated. Size, 8½ x 11 in.

L. Mundet & Son, Inc., 461 Eighth Ave., New York City.

1104. *Insulation for Refrigerating Systems*. Folder describing jointile pure baked cork board and its application to general cold storage construction. 12 pp. Illustrated. Size, 3½ x 8 in.

The Serval Corporation, 51 East 42d St., New York City.

1295. *Filtrine Water Cooling Equipped with Serval Electric Refrigeration*. Folder illustrates and describes self-contained cabinet type Filtrine Water Coolers and the remote type Filtrine Water Cooler. Filtrine Water Coolers are particularly adaptable for use in theatres, public buildings, industrial plants, banks, offices, hospitals, clubs and restaurants. 6 pp. Illustrated. Size, 8½ x 11 in.

1326. *Serval Electric Refrigeration for Household Use*. Architect's Data. Booklet bound in index tab filing folder. Complete information on all models of Serval electric refrigerators including dimensions and suggested specification. A. I. A. File No. 32-c-3. 24 pp. Illustrated. Size 8½ x 11 in.

## 33. ELEVATORS AND ACCESSORIES

General Electric Co., Schenectady, N. Y.

1127. *Elevator Equipment Bulletins*. GEA-184. Electric Elevator Equipment in the Equitable Life Assurance Society Building, New York City. No. 61311 multi-speed induction motors for elevator service. No. 61308 varying speed induction motors for elevator service. GEA-63 Type GTE Gearless Traction Motors for elevator service. No. 61310 Double Motor Type, multi-speed induction motors for elevator service. Bulletins illustrate and describe motors and give all over dimensions. Each Bulletin, 4 pp. Illustrated. Size, 8 x 10½ in.

Kimball Bros. Co., Council Bluffs, Iowa.

742. *Kimball Straight Line Drive Elevators*. A complete catalog of passenger, freight and garage traction elevators, push button elevators, dumbwaiters, sidewalk and ash hoist elevators, 36 pp. Illustrated. Size, 8½ x 11 in.

Otis Elevator Co., 260 Eleventh Ave., New York City.

651. *Otis Geared and Gearless Traction Elevators*. Leaflets describing all types of geared and gearless traction elevators with details of machines, motors and controllers for these types. Illustrated. Size, 8½ x 11 in.

652. *Escalators and Inclined Elevators*. A comprehensive catalog illustrating the use of escalators for transporting people in stores, subways, railroad stations, theatres and mills; also inclined freight elevators for stores, factories, warehouses and docks adjustable to tide levels. 22 pp. Illustrated. Size, 8½ in.

Richards-Wilcox Mfg. Co., Aurora, Ill.

795. *"Ideal" Elevator Door Hardware, Catalog No. 37*. A catalog showing hangers for every type of elevator doors hand operated, interlocking door controllers, bar locks and accessories. 56 pp. Illustrated. Size, 8½ x 11 in.

Sedgwick Machine Works, 159 West 15th St., New York City.

1341. *Sedgwick Dumb Waiters and Elevators*. Catalog P contains valuable information, standard sizes, installation details and other data on hand power dumb waiters, fuel and log lifts, freight elevators, invalid elevators, automobile elevators and sidewalk elevators. Experience of nearly 35 years in the design, manufacture and installation of hand power dumb waiters and elevators for all purposes has been drawn upon in the compilation of this catalog. 32 pp. Illustrated. Size, 8½ x 11 in.

A. B. See Electric Elevator Co., 52 Vesey St., New York City.

169. Photographs and description in detail of elevator equipment manufactured by the A. B. See Electric Elevator Co. Size, 6 x 8 in.

## 34. POWER PLANT

Delco Light Co., Dayton, Ohio.

1218. *Cooling Your Drinking Water Supply with Frigidaire*. Descriptive booklet on the cooling of drinking water for public buildings, factories, hospitals, schools, restaurants, etc. 8 pp. Illustrated. Size, 6 x 9 in.

## 35. EQUIPMENT, STATIONARY

American Stove Co., St. Louis, Mo.

1050. *Handbook on Gas Ranges for Architects and Builders*. A practical book of data on gas ranges and pipe sizes for the files of the architect and specification writer. 32 pp. Illustrated. Size, 8½ x 11¼ in.

## REFERENCE LIST OF BUSINESS LITERATURE—Continued

**35. EQUIPMENT, STATIONARY—Continued**

**Champlon Dish Washing Machine Co.**, 15th and Bloomfield Sts., Hoboken, N. J.

**1178. Safe Road to Increase Profits.** Illustrated catalog which points out proven ways in which hotels and restaurants can save through application of modern equipment. Specifications for each Champlon Model are given. (Blue prints covering each machine showing sizes and location of connections, etc., are also available.) 34 pp. Illustrated. Size, 7 x 10 in.

**R. W. Clark Mfg. Co.**, 4311 Ravenswood Ave., Chicago, Ill.

**1151. Clark Directories and Bulletin Boards.** A. I. A. File No. 35n3. Interchangeable letter equipment for office building directory, hotel, bank, apartment and public building directory and bulletin boards. Booklet ready for filing contains detail drawings with dimensions and specifications for various styles and sizes of bulletin and directory boards. 8 pp. Illustrated. Size, 8½ x 11 in.

**Dangler Stove Co., Division of American Stove Co.**, Cleveland, Ohio.

**459. Measured Heat Cookery.** Catalog No. 161. A catalog of gas cooking stoves, ranges, and water heaters; featuring the Lorain Oven Heat Regulator, a device for obtaining uniform heat without constant supervision. 72 pp. Illustrated. Size, 7½ x 10¼ in.

**J. C. Deagan, Inc.**, 189 Deagan Bldg., Chicago.

**783. Deagan Tower Chimes.** Describing the important features of Deagan Tower Chimes and including information concerning the space requirements and construction required for installing chimes in towers and belfries. 8 pp. Size, 8½ x 11 in.

**W. F. Dougherty & Sons, Inc.**, 1009 Arch St., Philadelphia, Pa.

**764. Kitchen Equipment for Hotels and Institutions.** Several catalogs covering a complete line of cooking apparatus.

**G & G Atlas Systems, Inc.**, 545 West Broadway, New York City.

**983. G & G Atlas Pneumatic Tube Systems.** A circular explaining the advantages of pneumatic tube systems for department stores, banks, hotels, office buildings, hospitals and industrial plants. Illustrations of installations and details. 12 pp. Illustrated. Size, 8½ x 11 in.

**Kerner Incinerator Co.**, 641 E. Water St., Milwaukee, Wis.

**1291. Incinerators (Chimney-fed), Catalog No. 15.** (Architects' and Builders' Edition.) Describes principle and design of Kernerator chimney fed incinerators for residences, apartments, hospitals, schools, apartment hotels, clubs and other buildings. Shows all standard models and gives general information and working data. 16 pp. Illustrated. Size, 8½ x 11 in.

**1292. The Sanitary Elimination of Garbage and Household Waste.** Folder contains complete information on the Kernerator for residences. 8 pp. Illustrated. Size, 8½ x 11 in.

**Richardson & Boynton Co.**, New York, N. Y., Chicago, Ill Philadelphia, Pa., Providence, R. I., Boston, Mass.

**292. Perfect Cooking Ranges.** Description and dimensions of the complete line of the new high enamel finish Richardson Perfect ranges with charts and information regarding combination coal and gas cooking ranges. 40 pp. Illustrated. Size, 8½ x 11 in.

**The Spencer Turbine Co.**, Hartford, Conn.

**1239. Spencer Central Cleaning Systems.** Vacuum cleaning apparatus for all purposes. Booklet completely describes the Spencer System of vacuum cleaning. A large number of buildings using this system are illustrated. 32 pp. Illustrated. Size, 8½ x 11 in.

**1240. Spencer Engineering Data Book.** Handbook contains notes on vacuum cleaning and central cleaning plants, its installations, equipment and use. Valuable tables, notes and information useful in laying out central vacuum cleaning systems are included. 345 pp. Illustrated. Size, 4½ x 7½ inches.

**36. CONSTRUCTION PLANT****37. INSULATION**

**Armstrong Cork & Insulation Co.**, 162 24th St., Pittsburgh, Pa.

**1273. Armstrong's Cork Board Insulation for Walls and Roofs of Buildings.** Ready to file catalog prepared and edited by the Architectural Council of Minneapolis, containing complete information on cork board insulation, arranged especially for the use of the specification writer and drafting room. A valuable reference volume. A. I. A. File No. 37b4. 66 pp. Illustrated. Size, 9¼ x 11¼ in.

**918. Nonpareil Cork Covering.** A treatise describing the production and manufacturing of cork pipe covering for steam and refrigerating systems. Designing data, specifications and installation directions 48 pp. Illustrated. Size, 8½ x 11 in.

**Samuel Cabot, Inc.**, 141 Milk St., Boston, Mass.

**639. Heat Insulation.** A treatise on the methods of securing insulation for various kinds of buildings and conditions by using different insulating quilts. 25 pp. Illustrated. Size, 7½ x 10½ in.

**The Phillip Carey Co.**, Lockland, Cincinnati, Ohio.

**379. Pipe and Boiler Coverings.** Catalog 1362. A catalog and manual pipe and boiler coverings, cements, etc. Contains a number of valuable diagrams and tables. 71 pp. Illustrated. Size, 6 x 9 in.

**The Celotex Co.**, 645 North Michigan Ave., Chicago, Ill.

**1063. Celotex Specifications.** Specifications and details for Celotex insulating lumber. Arranged for Architects' files. 12 pp. Illustrated. Size, 8½ x 11 in.

**Cork Import Corporation**, 345-349 West 40th St., New York City.

**1251. Novoid Cork Covering.** for refrigerated lines and tanks and drinking water systems. Folder describes the material and gives suggested specifications. 6 pp. Illustrated. Size, 8½ x 11 in.

**1252. Novoid Corkboard Insulation.** Folder illustrates and describes corkboard made in sheets 25 x 37 inches, split and finished full standard 12 x 36 inches in 1, 1½, 2, 3 and 4 inch thicknesses. 6 pp. Illustrated. Size, 8½ x 11 in.

**The Insulite Co.**, Builders Exchange Building, Minneapolis, Minn.

**1180. The Insulation of Roofs with Insulite.** Containing a chart for the calculation of the saving in coal and radiation from the insulation of any type roof. In standard A. I. A. folder. Size, 8½ x 11 in.

**1181. Prevention of Condensation.** A folder describing methods in the prevention of condensation and a chart from which the necessary insulation may be calculated. In standard A. I. A. folder. Size, 8½ x 11 in.

**38. LANDSCAPE.**

**Robert C. Reeves Co.**, 187 Water St., New York City.

**1225. Dubois Woven Wood Fence.** Made in France. Booklet describing the uses, construction and erection of woven wood fences. A list of installations in the United States and price list are included. The use of these fences are well shown by a series of plates. 8 pp. 10 plates. Size, 5½ x 6¾ in.

**39. ACOUSTICS**

**The Celotex Co.**, 645 North Michigan Ave., Chicago, Ill.

**1063. Acousti-Celotex Specifications.** Specifications and details for the application and decoration of Acousti-Celotex for acoustical treatment. 12 pp. Illustrated. Size, 8½ x 11 in.

**National Building Units Corporation**, 1600 Arch St., Philadelphia, Pa.

**1246. Sound Absorption of Cinder Concrete Building Units.** Bulletin No. 1 Technical Series. This bulletin interprets the results of investigations conducted by the University of Toronto and the Detroit Testing Laboratory on the sound absorption of cinder concrete building units and other materials. 8 pp. Illustrated. 8½ x 11 in.

**40. REGULATIONS****I PLANS AND DESIGNS**

**American Face Brick Association**, 1754 People's Life Bldg., Chicago, Ill.

**155. The Home of Beauty.** A booklet containing fifty prize designs for small brick houses submitted in national competition by architects. Texts by Aymar Ambury II, Architect. Size, 8 x 10 in. 72 pp. Price, 50 cents.

**The American Pin Company**, Waterbury, Conn.

**985. American Renderers.** A series illustrating the work of American Renderers of which five of twelve are issued. A monthly publication free to architects. Each 4 pp. Illustrated. Size, 9 x 12 in.

**The Long Bell Lumber Co.**, R. A. Long Building, Kansas City, Mo.

**1175. The Book of Lawn Furniture.** Contains about 100 designs for lawn and garden furniture. Sent free to architects who apply on their office stationery; to others, 10 cents a copy. 36 pp. Illustrated. Size, 6¼ x 9¼ in.

**Ramp Buildings Corporation**, 21 East 40th St., New York City.

**1021. D'Humy Motoramps.** Catalog No. 25. Describes a type of construction for multi-floor garages with comparative data of other types, investment, cost and capacity data. 15 pp. Illustrated. Size, 8½ x 11 in.

**1022. Garage Design Data.** Service bulletins to architects containing garage design data. Ask for preceding bulletins. 2 pp. Illustrated. Size, 8½ x 11 in.

**Truscon Steel Company**, Youngstown, Ohio.

**638. Daylighting Schools.** A treatise on the daylighting and window ventilation of school buildings quoting eminent authorities, illustrated with diagrams of lighting data and details of suitable windows. 28 pp. Illustrated. Size, 8½ x 11 in.

**II GENERAL CATALOGS**

**American Lead Pencil Co.**, 220 Fifth Ave., New York City.

**268. Booklet C-20. Venus Pencil in Mechanical Drafting.** And interesting illustrated booklet showing the possibilities of the Venus Drawing Pencil for drafting. Size, 6 x 9 in.

**H. W. Covert & Co.**, 137 East 46th St., New York City.

**775. Fireplace Fittings in Iron and Brass.** A catalog of andirons, fire sets, fire screens, fenders, woodholders, willow wood baskets, hearth brooms, grates, candlesticks, lanterns and other accessories made in iron and brass. 36 pp. Illustrated. Size, 8½ x 8½ in.

**Joseph Dixon Crucible Company**, Pencil Department, Jersey City, N. J.

**325. Finding Your Pencil.** A book explaining the various degrees of hardness of the Eldorado pencil and the grade most suitable for every man, who uses a pencil, be he business or professional man, clerk or draftsman. Accompanied by a color chart of Dixon colored crayons. 16 pp. and 4 pp. in color chart. Illustrated. In colors. Size, 3¼ x 6 in.

**The General Fireproofing Building Products**, Youngstown, Ohio.

**1270. The Fireproofing Handbook**, 9th edition. Contains description and data on complete line of steel building products including metal lath, concrete reinforcement, light channels, steel joists, steel tile, steel doors and windows, and waterproofing products. 32 pp. Illustrated. Size, 8½ x 11 in.

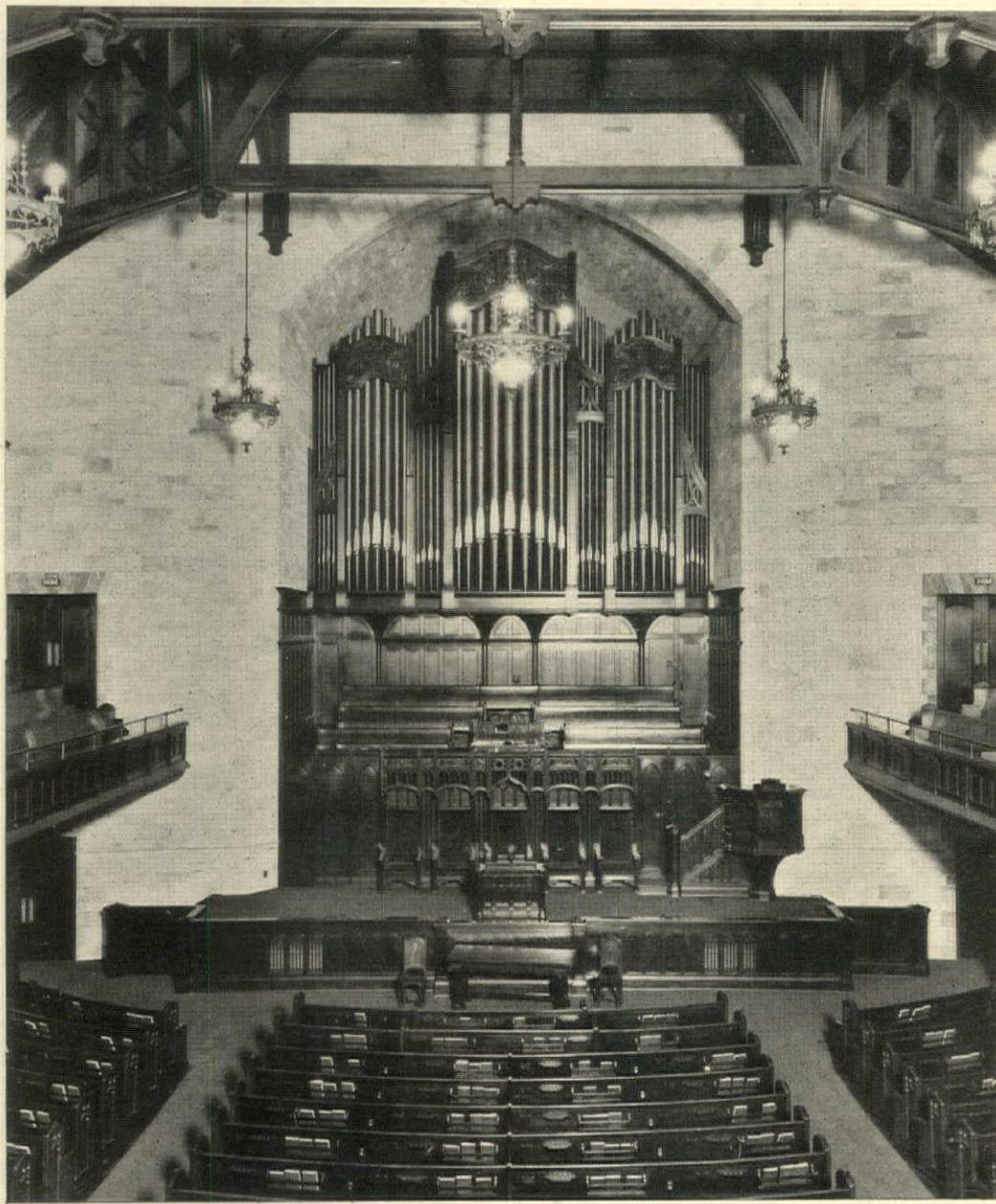
**Truscon Steel Co.**, Youngstown, Ohio.

**319. Truscon Building Products. Form D-376.** Contains a brief description of each of the Truscon Products. 112 pp. Illustrated. Size, 8½ x 11 in.

**A. Wyckoff & Sons Co.**, Elmira, N. Y.

**397. Wyckoff Wood Pipe.** Catalog No. 42. A description of machine-made woodstave pipe and Wyckoff's useful steam pipe casing. Contains also a number of pages of useful formulas and tables for hydraulic computation. 92 pp. Illustrated. Size, 6 x 9 in.

**III FINANCING OF ENTERPRISES**



First Presbyterian Church, Hollywood, California

H. M. Patterson, Architect

Zenitherm Company, Inc., Newark, New Jersey

Zenitherm Sales Co., (Cal.) 55 New Montgomery St., San Francisco

**ZENITHERM**

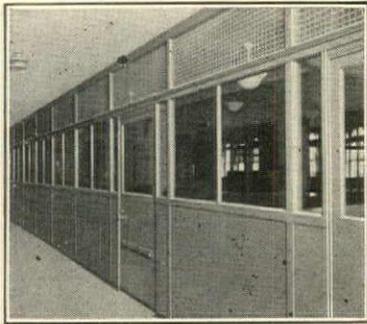
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**LOOKS LIKE STONE—WORKS LIKE WOOD**

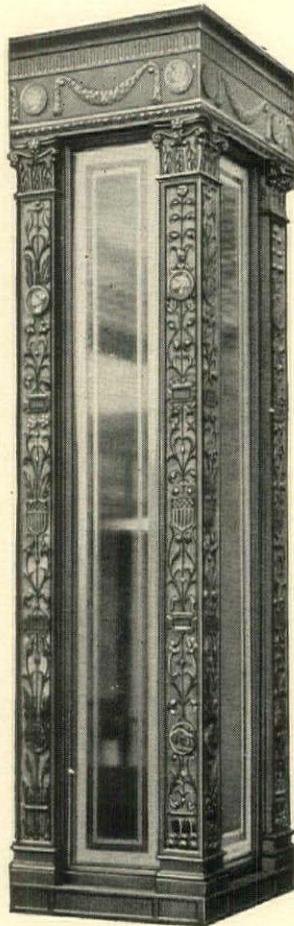
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## THE NEW RENAISSANCE IN METAL WORKING

# TWO SCREENS MADE 500 YEARS APART



Hollow metal partitions and screen for private offices in the New York Federal Reserve Bank—executed by Art Metal.  
York & Sawyer, architects.



*Yet the one in the Boston bank is as truly the work of an artist as the one in the Italian cathedral*

SEVENTEEN years went into the making of the beautiful bronze screen that stands in the cathedral of the little town of Prato, near Florence. It is the work of Simone, a master Renaissance metal worker, and as fine an artist as his more famous brother, Donatello.

In the Boston Federal Reserve Bank stands another screen, executed by Art Metal. It surrounds the counters of the paying and receiving tellers. Modern production methods produced this screen in only a few months. Yet it is as truly the work of an artist as the screen of Simone, because it turns a purely useful piece of equipment into a decoration of graceful beauty.

But a counter screen is only a single one of the many items of bank equipment manufactured by Art Metal. The careful skill which has character-



Art Metal two-story library stack in the Federal Reserve Bank in Philadelphia.  
Bunting & Shrigley, architects.

*Corner of the beautiful counter screen that is part of the Art Metal Equipment in the Boston Federal Reserve Bank.*

*R. Clipston Sturgis, architect.*

ized Art Metal work for thirty-eight years also goes into the making of entrance doors, grilles, cage and counter equipment, check desks and elevator doors and trim.

### *Hollow metal work a specialty*

An outstanding Art Metal product is the hollow metal work—doors, trim and partitions—which has been installed in many of the Federal Reserve banks throughout the country. The planning and designing of this and other steel equipment to exactly meet individual requirements makes the Art Metal service unusually valuable to the architects of banks and large public buildings.

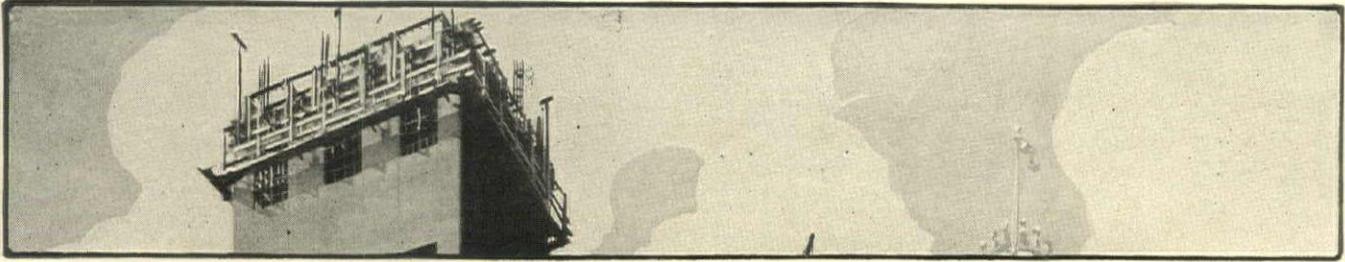
We shall be glad to discuss any problems you may have on metal equipment specifications. A letter to us will bring a representative.

# Art Metal

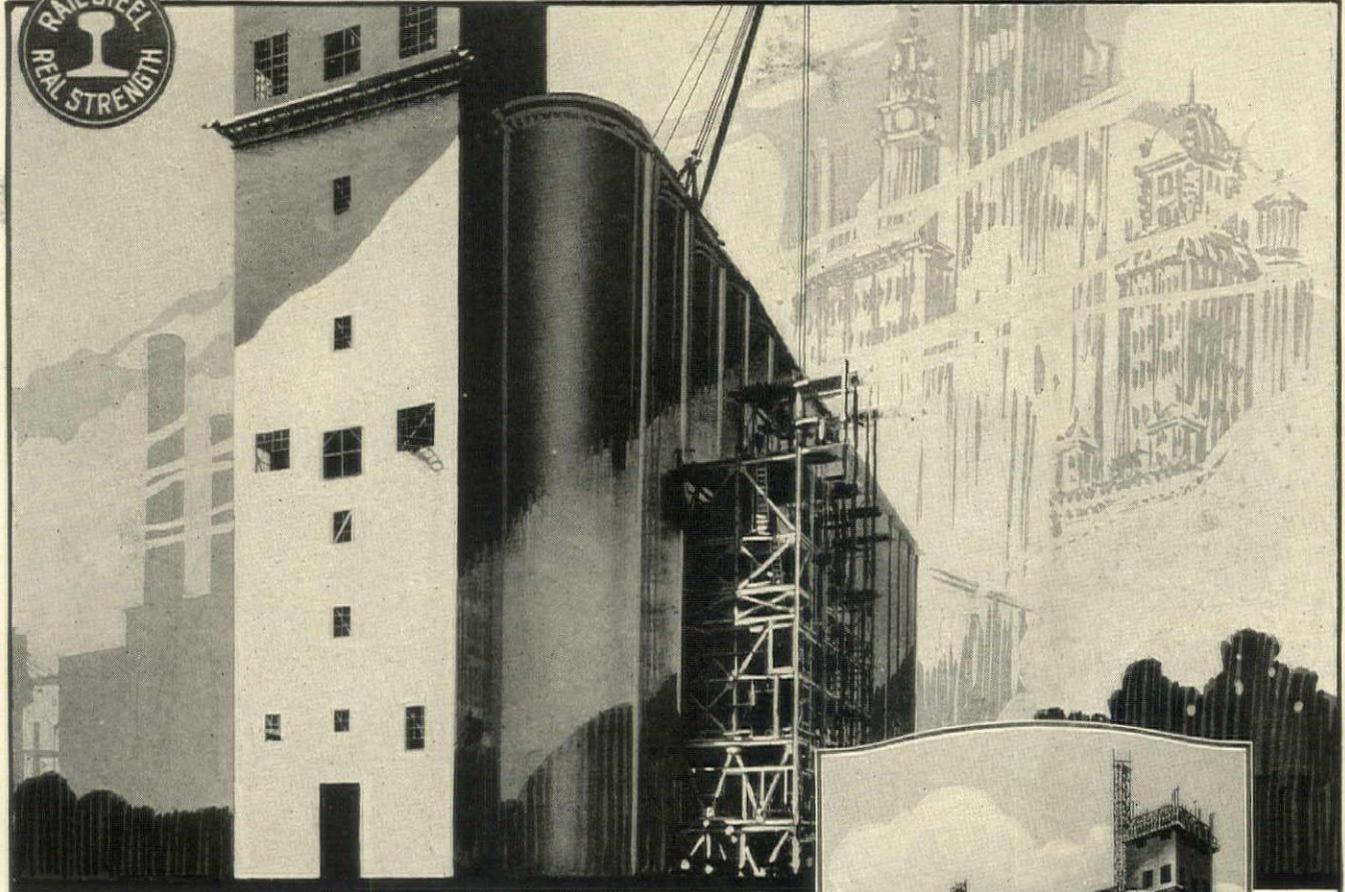
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BRONZE AND STEEL INTERIOR EQUIPMENT FOR BANKS, LIBRARIES AND PUBLIC BUILDINGS...HOLLOW METAL DOORS AND TRIM

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Grain elevators comprise only one of the many types of structures that are advantageously built of that high strength combination, concrete and rail steel reinforcing bars.

1 1 1

Furnished in accordance with A. S. T. M. Specification A-16-14 or (in Canada) C. E. S. A.—A 9-1923

*New Marine Elevator  
Buffalo, N. Y.*

1 1

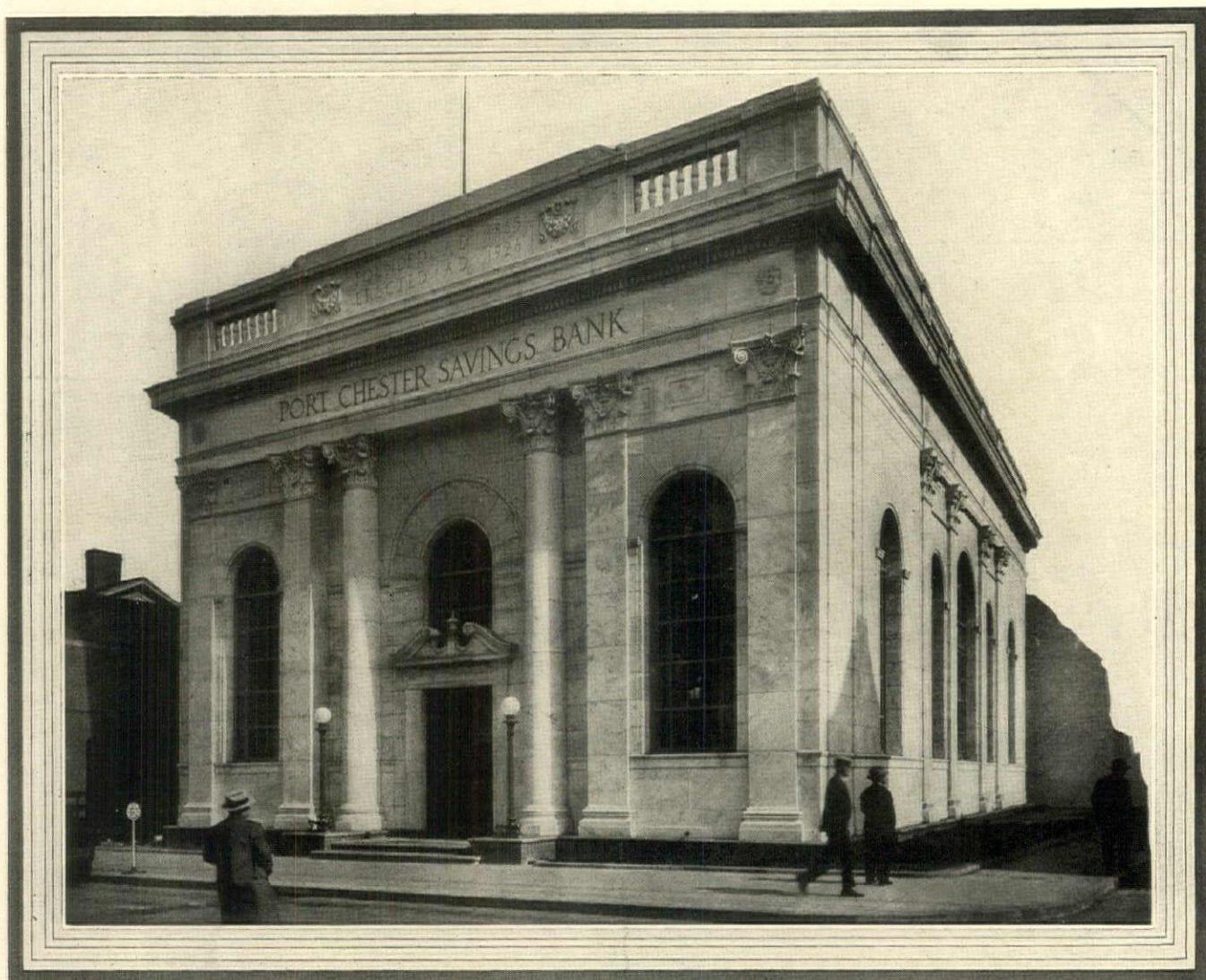
JAMES STEWART & CO., Inc.  
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## Rail Steel Bar Association

**Builders Building, 228 No. La Salle St., Chicago, Ill.**

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| Calumet Steel Company<br>Chicago, Ill.      | Franklin Steel Works<br>Franklin, Pa.     | Missouri Rolling Mill Corp.<br>St. Louis, Mo.          | West Virginia Rail Co.<br>Huntington, W. Va. |
| Burlington Steel Company, Hamilton, Ontario |   | Canadian Tube & Steel Products, Ltd., Montreal, Quebec |  |

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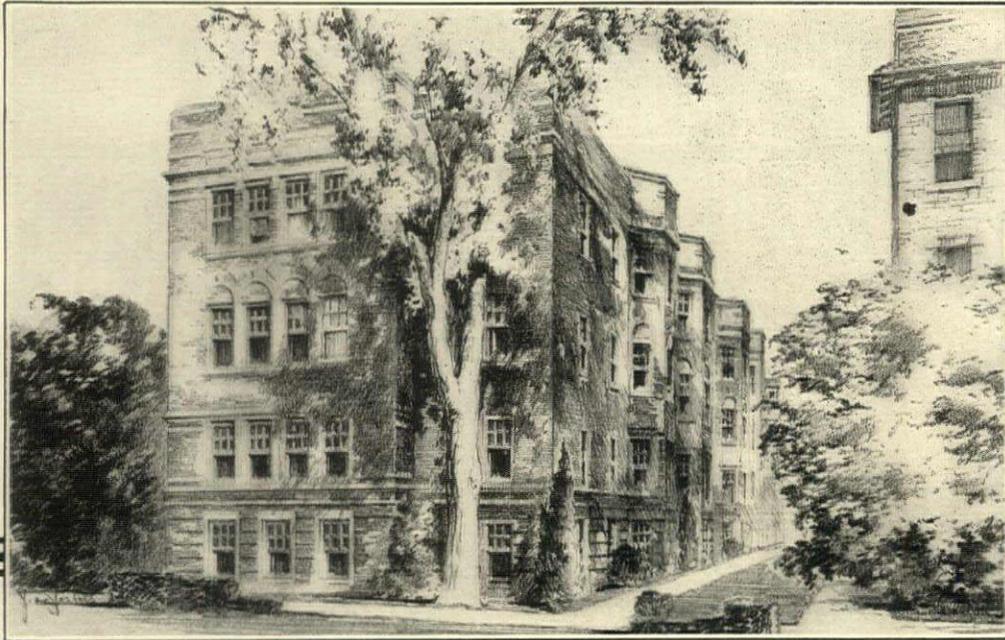
## SMALL BANKS

Architects recognize that Georgia Marble is ideal for monumental buildings. It is a material which helps to express the strength, sincerity, and stability of the institutions that it houses. A small bank built of Georgia Marble looks "every inch a bank," while if it were built of a less fitting material it would be just a small building.

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# GEORGIA MARBLE

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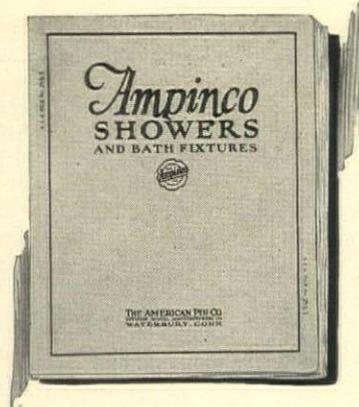


THE CAMPUS APARTMENTS  
 1913-1915 Sherman Avenue, Evanston, Ill.  
 W. H. Frentell, Owner; Anthony N. Quitsoro, Architect, 11 South La Salle St., Chicago, Ill.  
 Rendering by T. T. De Postels. 18 Congress Exposed Showers.

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WHY do architects throughout the country select Ampinco-Kenney Showers for the finer hotels, homes, clubs and apartments? Records show these showers operate without interruption year after year. Constructed of everlasting brass and rigidly tested before shipment, they are bound to measure up to all expectations.

Ampinco showers include



*This booklet, "Ampinco Showers and Bath Fixtures," gives complete description of the shower bath fittings used in apartment house pictured, as well as the many other models included in the Ampinco line. Free to all architects, contractors and plumbers.*

both overhead and Kenney Body Needle Shower models. Many have M-VB Temperators, famous for accurate temperature and pressure control. All are outstanding examples of high-grade workmanship.

For complete information, write The American Pin Company Division, Scovill Manufacturing Company, Waterbury, Connecticut.

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Scovill is the name of a broad service to industry. It places acres of factories, forests of machinery, hosts of skilled workmen, metallurgists, modern laboratories and trained representatives at the disposal of those who require parts or finished products of metal.



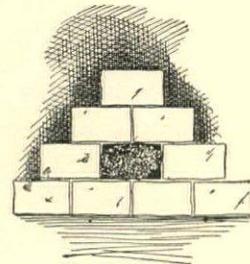
## \*How Solid Is 90 Per Cent? (Volume Per Cent of Water in Concrete)

IN GENERAL concrete practice 25 or 30 gallons of water are used in mixing a cubic yard of concrete. This means that between 3 and 4 cubic feet of water are present in every cubic yard of concrete. As is well known, water is subject to evaporation and unless some chemical action took place between the cement and water, the entire cubic content of water would dry out as the concrete "sets."

As a matter of fact, a chemical action, known as hydration, does set up between cement and water and the cement retains about 25% of the water permanently. There still remains a free volume of water subject to complete evaporation and equal to 10% of the total volume of each cubic yard of concrete. Since water can not be compressed we know that when the concrete is dry there will be one-tenth unoccupied space in the mass—only 90% of the concrete's volume will be a solid.

The 10% space is naturally not a single cavity but millions of tiny pores or pockets from which water has gone and into which water can come again unless it is barred out. The Truscon Laboratories, from the very beginning, attacked the problem of waterproofing concrete from the scientific angle. Realizing that water enters concrete because of the 10% voids left by the evaporation of water, we set about discovering a method of eliminating absorption in concrete.

The result of our many experiments and tests was Truscon Waterproofing Paste Concentrated, a waterproofing product which is mixed with the original concrete, becoming a permanent and integral part of it and protecting the concrete throughout its entire life. This product can be easily and economically used and will pay for itself many times over in the better appearance and the reduced maintenance costs of the construction. No concrete should ever be used without this precaution of integral waterproofing.



The life and strength of concrete is as seriously affected by the 10% voids left by water's evaporation as a wall in which to every 9 stones one sponge was laid in.

★ This is No. 5 of a series of non-technical explanations prepared by R. A. Plumb, General Director of The Truscon Laboratories, on the necessity for integrally waterproofing all concrete used in building.

General Director of  
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Write for free data on the practical uses of Truscon Waterproofing Paste Concentrated.

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OFFICES IN ALL PRINCIPAL CITIES • • FOREIGN TRADE DIVISION, NEW YORK

# TRUSCON Waterproofing Paste CONCENTRATED

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Maccabee Building, Detroit, Mich.

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The features of Truscon Double Hung Windows installed in the Maccabee Building include heavy welded frames, weathertightness, smooth, quiet operation on concealed roller bearings, heavy muntin bars, rigid sash.

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*Warehouses and Offices in all Principal Cities.*

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 COUNTER WEIGHTED

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# 28 Architects in Cleveland Specify Rivet-Grip

**I**n the comparatively short period of three and a half years Rivet-Grip Steel Joists have been accepted as standard for fire-safe floor construction and are being specified repeatedly by architects for work throughout the United States.

In Cleveland alone, where Rivet-Grip Steel Joists are made, 28 different architects have used them in a large number of buildings of various types. Many of these architects have used Rivet-Grip Steel Joists repeatedly, one using them in 18 different buildings.

The repeated use of these joists in Cleveland indicates faith and confidence in Rivet-Grip construction. Cleveland architects and contractors are in the best possible position to judge the merits of a Cleveland-made product.

The buildings pictured here are typical of the Cleveland structures in which Rivet-Grip Steel Joists were used. These include apartment houses, banks, office buildings, hospitals, schools, churches, libraries, theaters, hotels, garages, stores and residences.

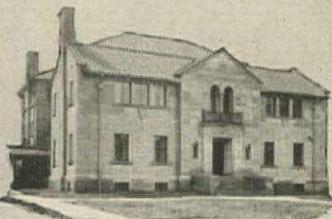
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REPRESENTATIVES IN ALL PRINCIPAL CITIES  
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A. W. Harris, Architect  
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St. Agnes Rectory,  
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The Detroit-Warren Building,  
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The Bailey-Buick Garage,  
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State Female Infirmary,  
H. B. Briggs, State Architect  
The Reaugh Construction Co.  
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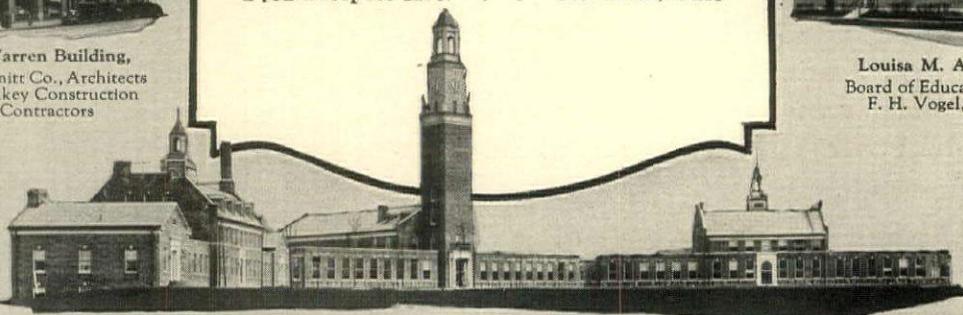
Playhouse Theater,  
P. L. Small and C. B. Rowley,  
Associate Architects  
The Wm. Dunbar Co., Contractors



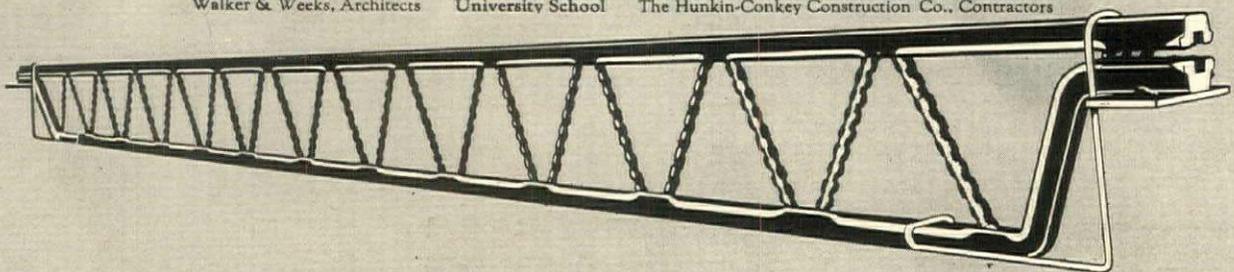
Lorain Medical Building,  
William R. Powell, Architect  
The A. A. Lane Construction Co.,  
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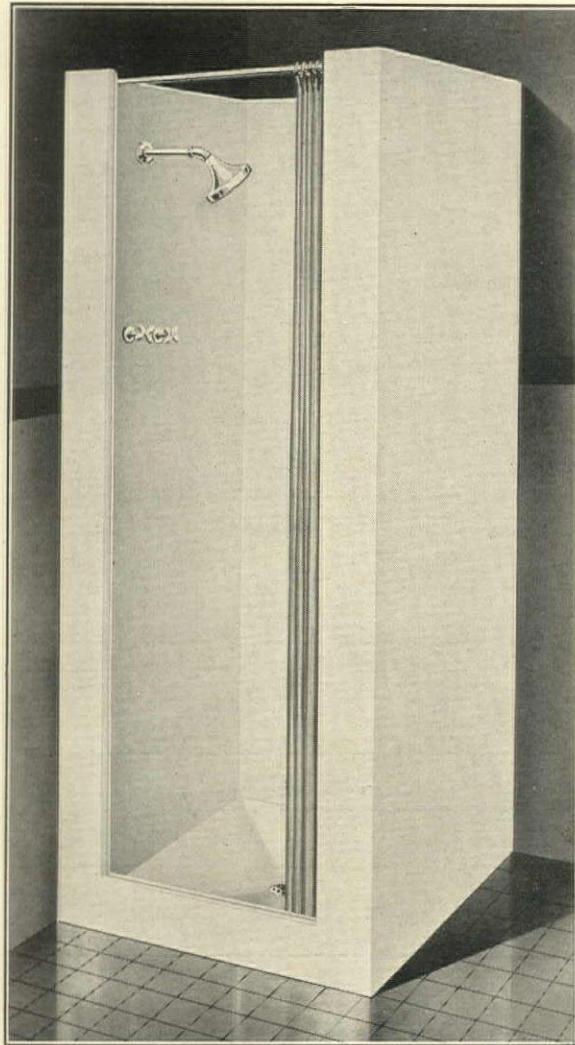
Louisa M. Alcott School,  
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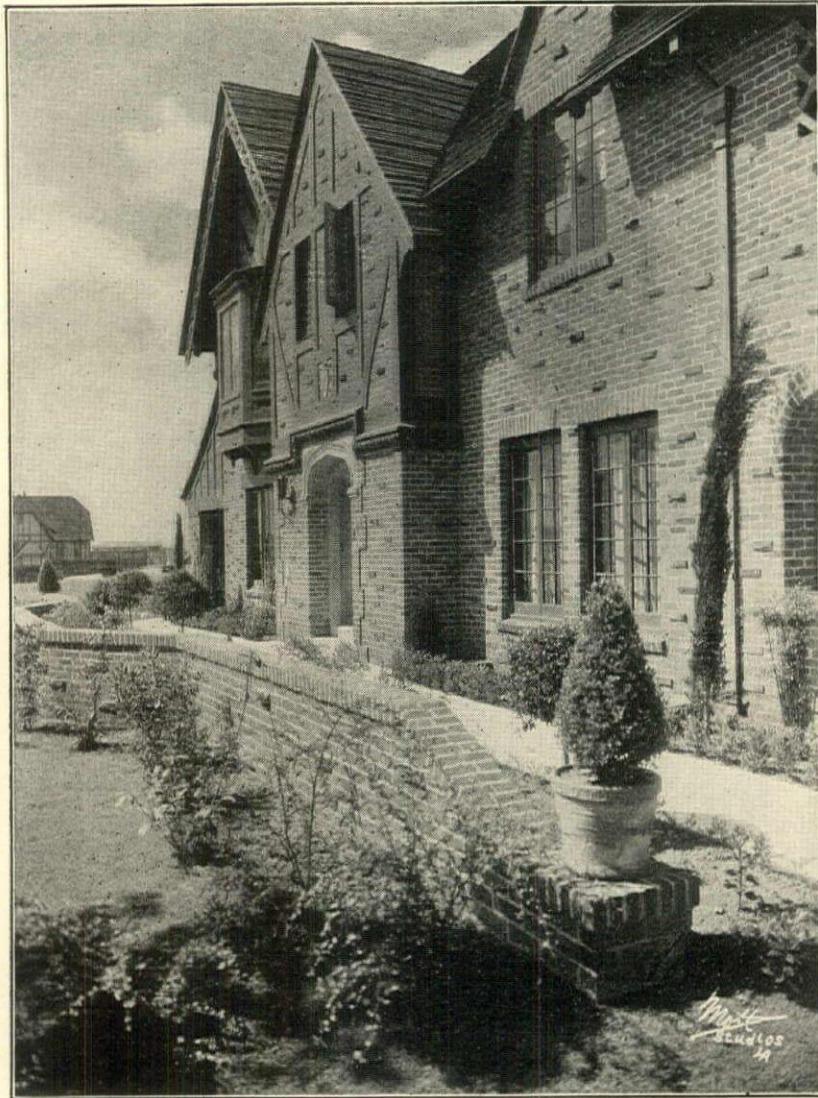
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# McCRAY REFRIGERATORS

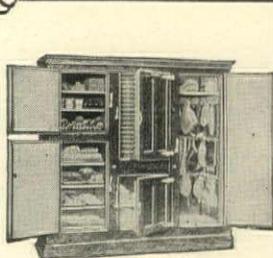
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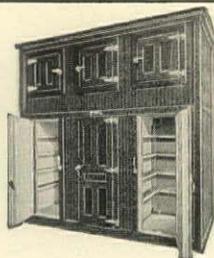
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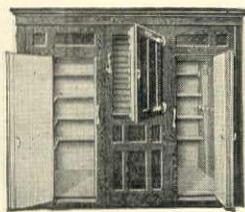
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City.....  
State.....



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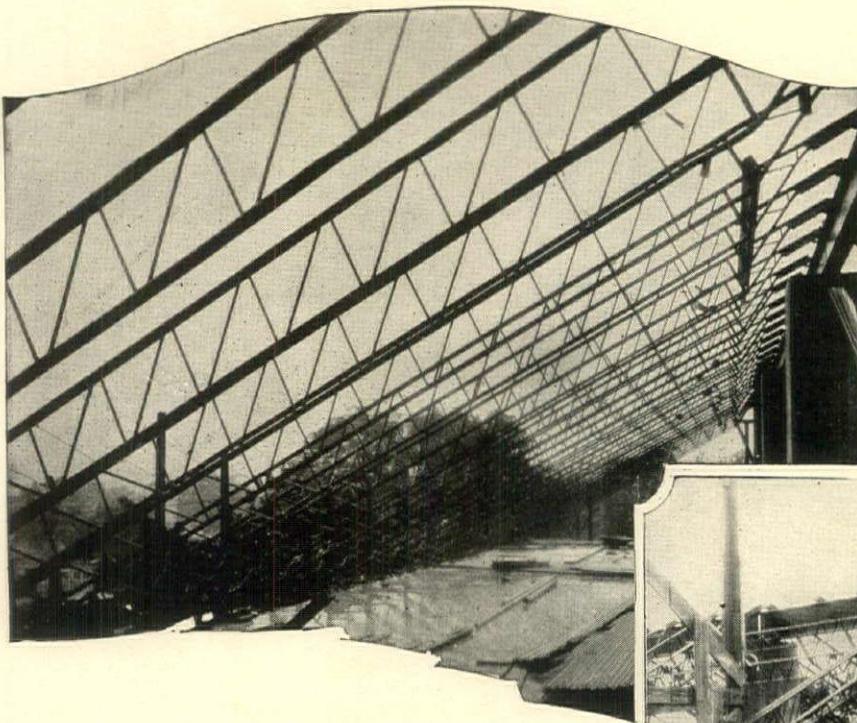


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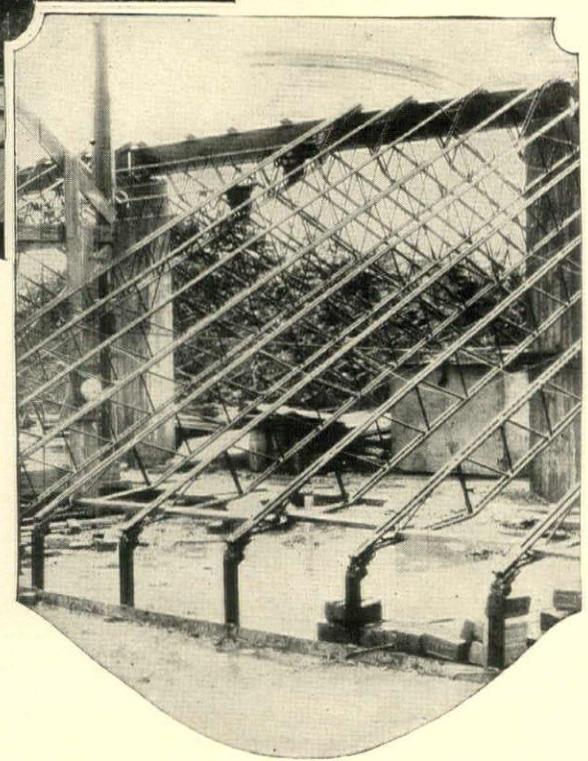
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is adapted to any type of roof  
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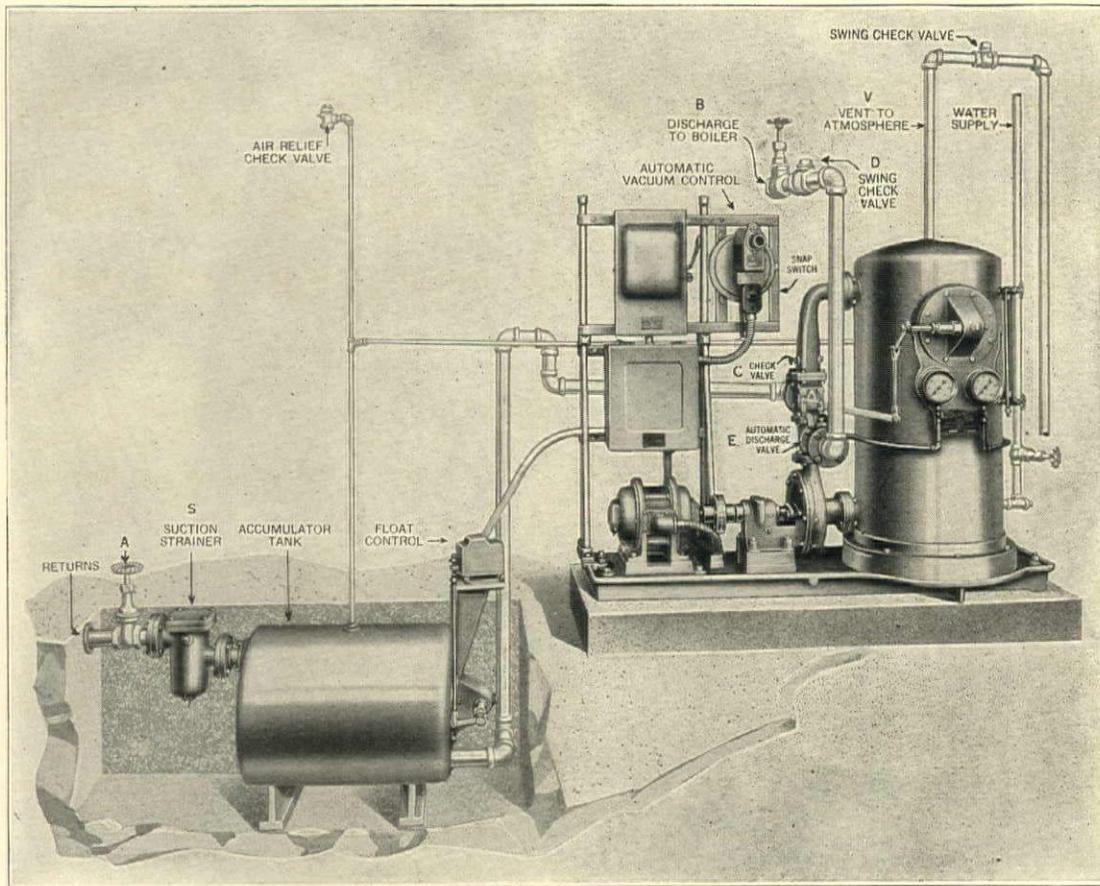


These illustrations show the use of the Havemeyer truss in a gable roof for the New York Telephone Building, Mamaroneck, N. Y.; McKenzie, Voorhees and Gmelin, architects; Wm. A. Berbusse, Jr., contractor.



Lower illustration shows ends of trusses welded to supports. The Havemeyer truss affords a strong fireproof roof construction at minimum cost. Manufactured in standard units to span from 4 to 31 ft. Immediate shipments from stock. Write for literature.

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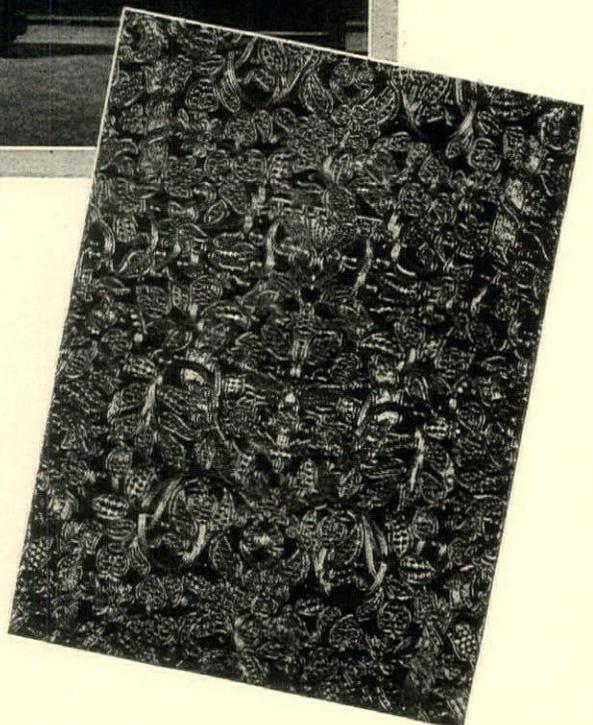
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SUCH wide price differences separate different GRADES of tiles that no one can be sure of getting what he is paying for unless he first makes sure that the grade specified is actually installed.

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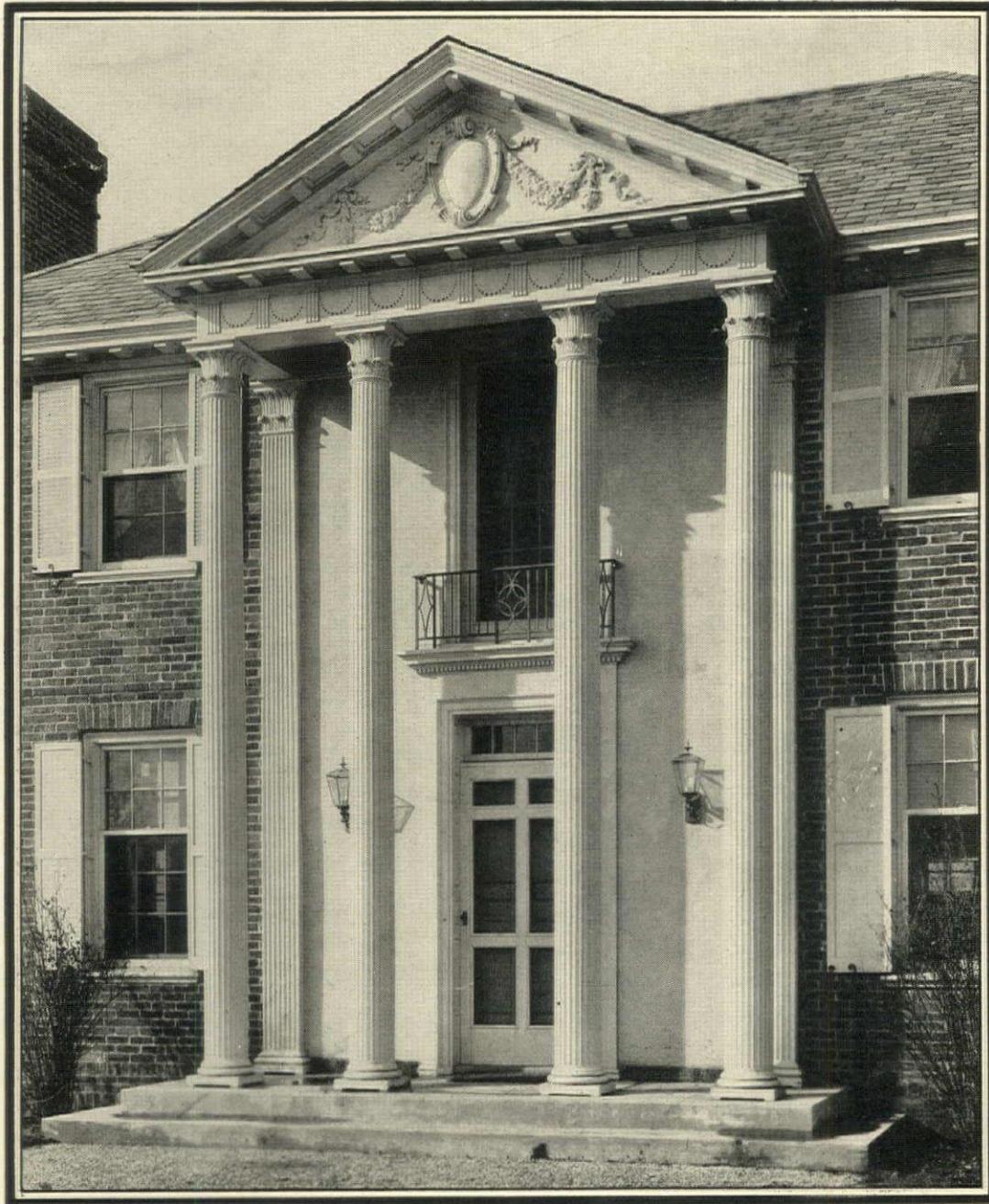
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"Barreled in Bond"

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LOCK-JOINT COLUMNS



Residence at Deerfield, Ill. Ralph E. Stoetzel, Architect.

It was Hartmann-Sanders' distinction many years ago to create a better designed, finer looking, longer lasting wood column.

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*Pergolas  
Rose Arbors*

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**Don't repeat other peoples mistakes**  
- avoid dangling cords

ALMOST everybody who builds a house up to a story or two, will tell you about the things that will not do the job. They have the electrical system installed, and the house is ready for the next thing in the construction program. They may not realize it, but the most important part of the job is the wiring. It is the backbone of the house, and it must be installed in a way that will last for years to come.

Don't make the same mistakes. Or don't have them if they are already made. When you build with a complete G-E Wiring System, you are getting the best of both worlds. You are getting the safety and security of a complete G-E Wiring System, and you are getting the beauty and convenience of a complete G-E Wiring System.

With this complete wiring system, you can make your house an electrical work of art. You can have the safety and security of a complete G-E Wiring System, and you can have the beauty and convenience of a complete G-E Wiring System.

The G-E Wiring System is a system of complete wiring, including safety, security, convenience, and beauty. It is the only system that makes for safe, sound, and beautiful wiring.

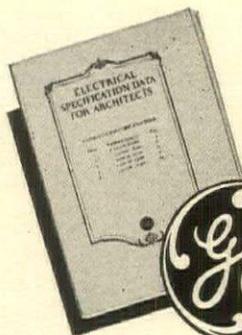
Merchandise Department  
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Merchandise Department  
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**GENERAL ELECTRIC**

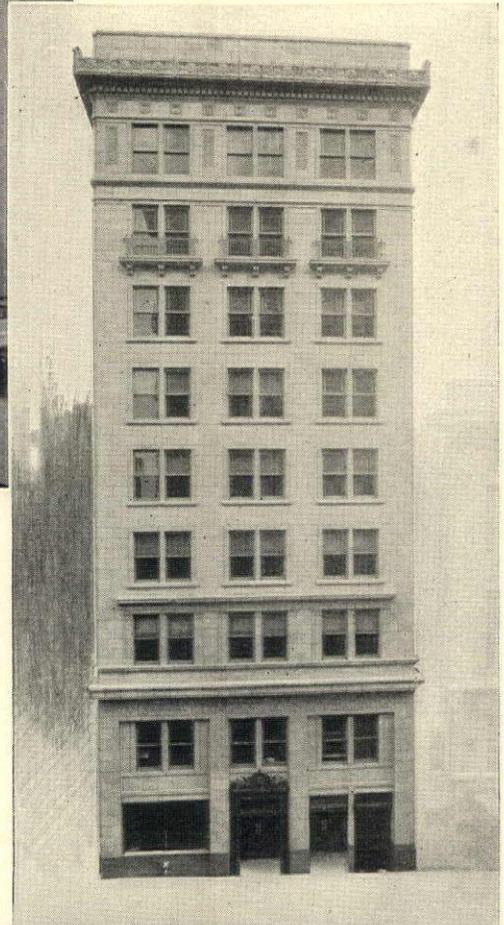
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# Whether it be Special Design or Standard Guth Illuminators are Specified!



*The Tulsa Building and Loan Association, Tulsa, Oklahoma. Built and equipped by the St. Louis Bank Building and Equipment Company, St. Louis, Mo.*

*Banking room equipped with Guth Illuminators of special design and all offices equipped with the new GuthLite shown below.*



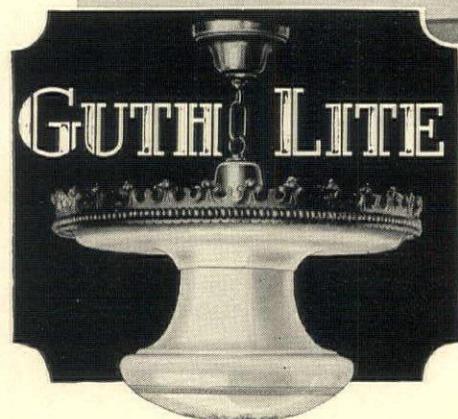
**D**UE TO the world wide reputation won by Brascolite and GuthLite, many Architects and Illuminating Engineers look upon The Edwin F. Guth Company as manufacturers of standard lighting equipment only.

Actually a very large part of our business is designing and manufacturing special lighting units for monumental structures and other buildings requiring illuminators that will properly complete the architectural picture.

Whether it be a special design or standard equipment, Guth illuminators have been specified for the past 25 years by the leading architects and illuminating engineers, until today monumental structures in every state are lighted by Guth fixtures.

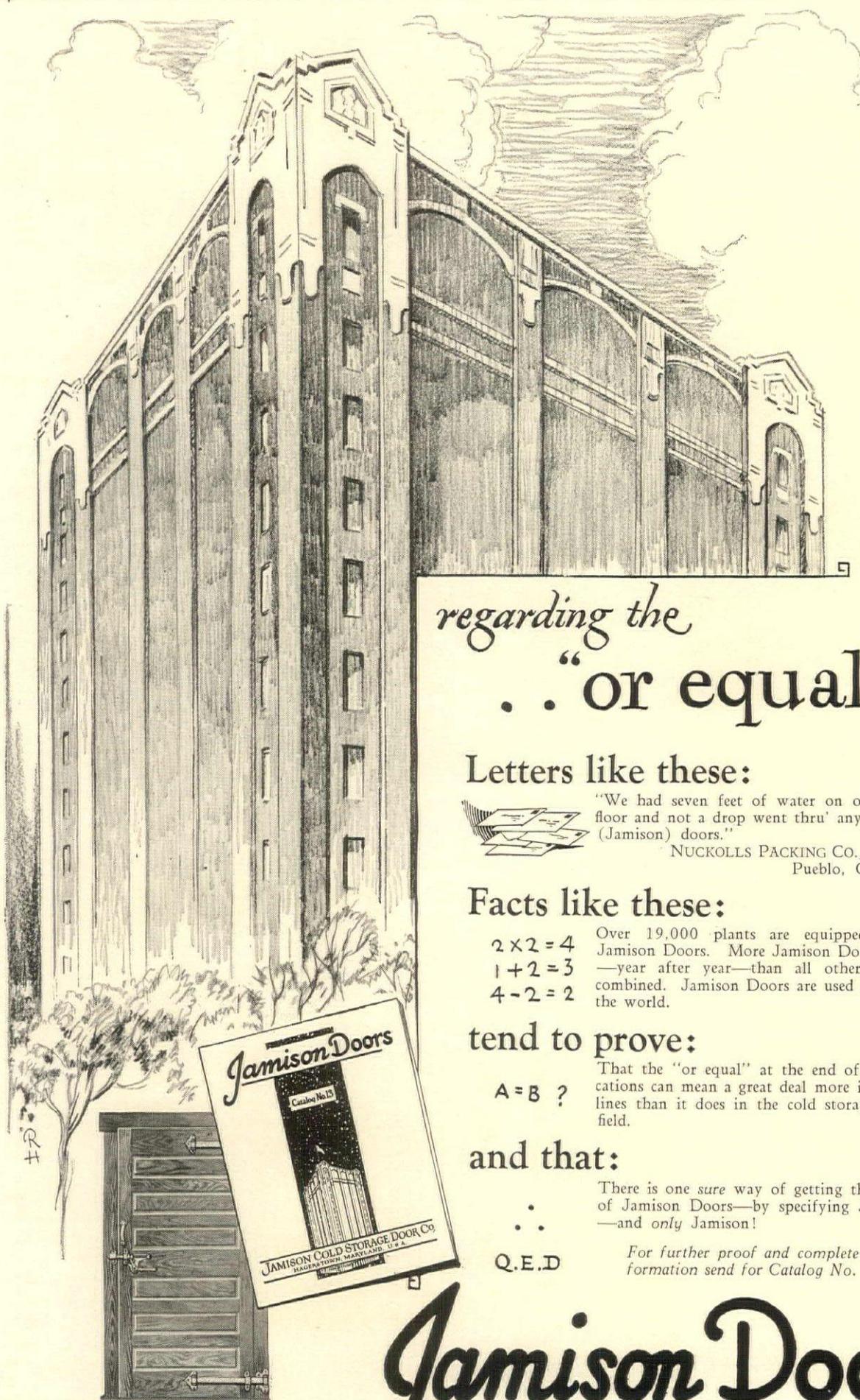
The Guth staff of designers and lighting engineers are available to you for the development of special equipment or to help adapt the most efficient standard units to your particular problem.

A Guth lighting specialist is near you and will be glad to give you any cooperation your need dictates.



**THE EDWIN F. GUTH COMPANY, 2621 Washington Ave., St. Louis, Mo.**  
*Designers, Engineers and Manufacturers of Lighting Equipment Since 1902*  
**A National Organization with Representatives in all Principal Centers**

*Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual*



regarding the  
 .. "or equal"

Letters like these:



"We had seven feet of water on our first floor and not a drop went thru' any of the (Jamison) doors."

NUCKOLLS PACKING CO.,  
 Pueblo, Colo.

Facts like these:

2 x 2 = 4  
 1 + 2 = 3  
 4 - 2 = 2

Over 19,000 plants are equipped with Jamison Doors. More Jamison Doors sold —year after year—than all other makes combined. Jamison Doors are used all over the world.

tend to prove:

A = B ?

That the "or equal" at the end of specifications can mean a great deal more in *other* lines than it does in the cold storage door field.

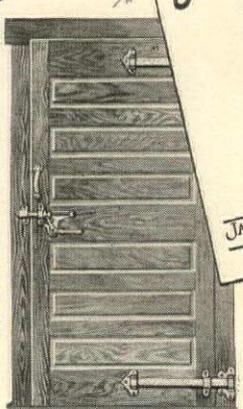
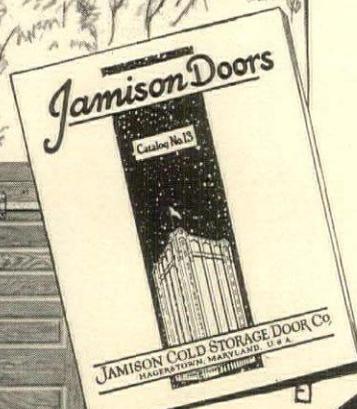
and that:

∴

There is one *sure* way of getting the equal of Jamison Doors—by specifying Jamison —and *only* Jamison!

Q.E.D

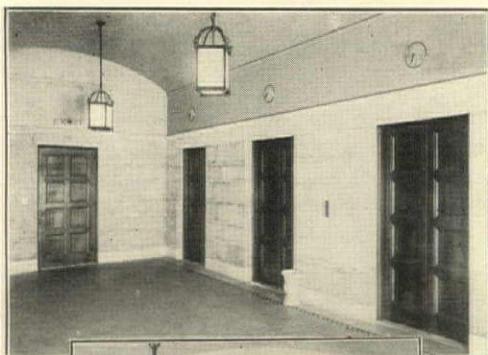
For further proof and complete information send for Catalog No. 13.



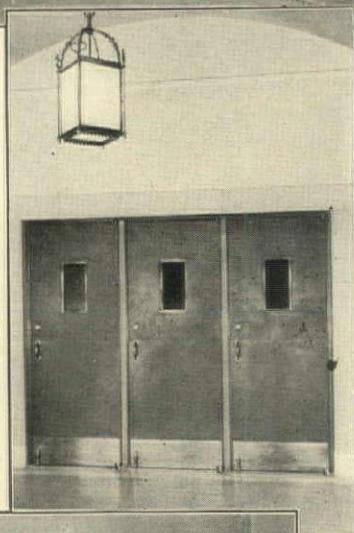
# Jamison Doors

Jamison Cold Storage Door Company  
 Hagerstown, Maryland, U. S. A.

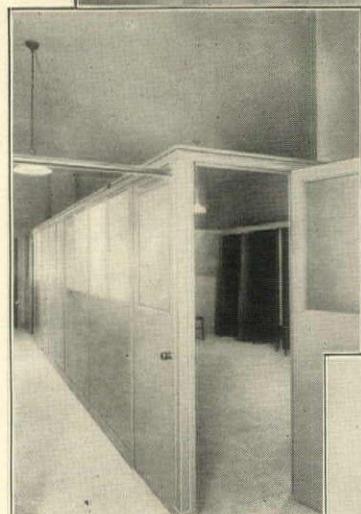
# Excellence of Workmanship . . . that few can achieve



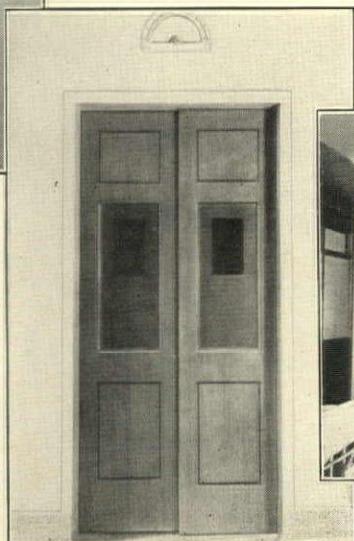
Elevator doors  
in Academy of  
Medicine,  
New York City.



Leather covered  
swing doors in  
Academy of  
Medicine,  
New York City.



Special Metal  
partitions in  
Roosevelt Hospital,  
New York City.



Metal Elevator  
doors finished in  
hand-grained  
silver oak,  
Roosevelt Hospital

Architects:  
York and Sawyer.  
New York

General Contractors:  
Marc Eidlitz & Son,  
New York

*"Jonesteel" Interior Metal Construction  
. . . . Doors, Enclosures, Partitions, etc.  
. . . . Highly Valued in Important New  
York Construction Work*

The versatility of the "Jonesteel" organization is generously shown in the Academy of Medicine, Roosevelt Hospital and New York Orthopaedic Hospital.

Velvet-action elevator doors, stair-hall doors beautifully finished in hand-grained silver oak with ebony inlay, flush type leather-covered swing doors, borrowed light frames and sash, special partition equipment and radiator enclosures finished to match the walls,— all designed and constructed to achieve a well-balanced, attractive-looking and accurately-fitted result.

Many similar important contracts are engaging the attention of "Jonesteel" engineers and production experts . . . busier than ever because of unusual care and skill employed from rough sketch to installation.

Send for 32-page illustrated book of details and specifications for architects' files. Kindly ask for Book B.



Hollow Metal Doors  
Rolled Steel Door Frames  
Interior Trim  
Elevator Enclosures

Office Partitions  
Banking Room Equipment  
and  
Cold Drawn Mouldings



Metal partitions  
and borrowed  
light units  
in New York  
Orthopaedic  
Hospital.

## Jamestown Metal Desk Co., Inc. Jamestown, N.Y.

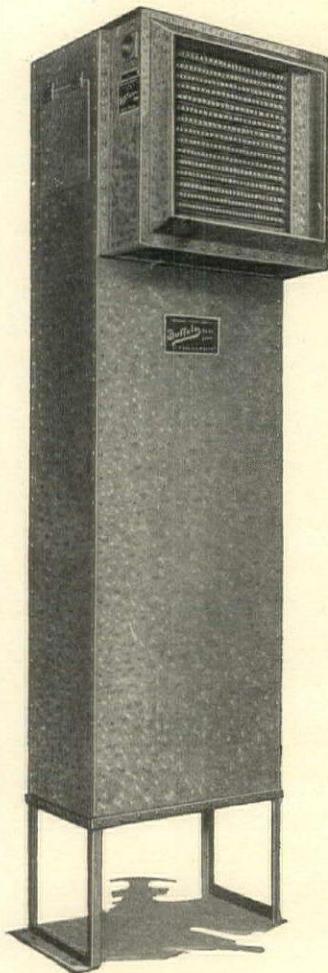
REPRESENTATIVES IN ALL IMPORTANT CITIES

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# Lower costs— higher efficiency

Buy the highest heating efficiency at the lowest cost—get easily installed, inexpensively maintained HEATING, at a fraction the cost of direct radiation.

*Heat with Buffalo Unit Heaters.*



**FOUR  
TYPES**  
—for every  
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Buildings have certain characteristics which determine the best type of heater, depending on location of windows, height of ceilings, production methods, etc.

We make four types of unit heaters to meet all of these conditions economically. Why not let us work with you in selecting the right heaters for your buildings?

ASK FOR CATALOG No. 466

**Buffalo Forge Company**

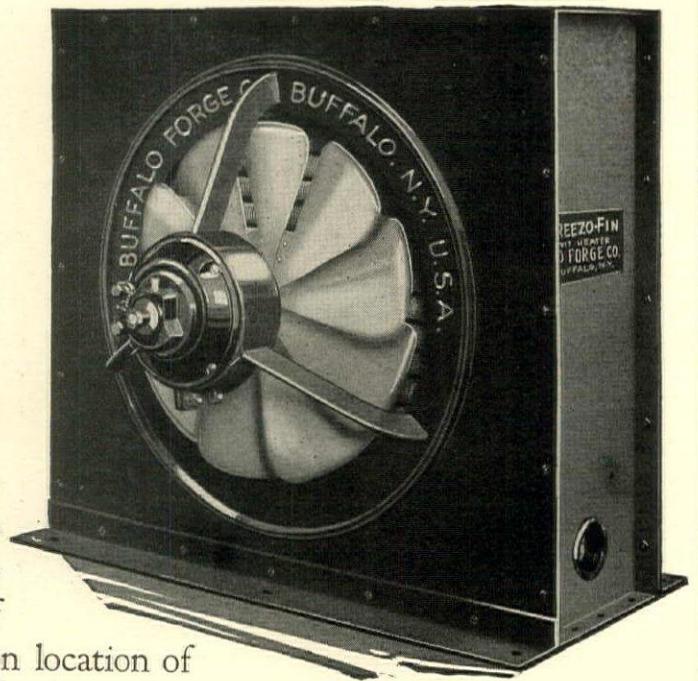
444 Broadway

Buffalo, N. Y.

In Canada—Canadian Blower & Forge Co., Ltd., Kitchener, Ont.

HEAT WITH UNIT HEATERS

**“Buffalo”** Unit Heaters



# Now—a Rust-Resisting Time-Tested Iron Made Even Better

Provides greater resistance to rust and corrosion by scientific combination with copper and mo-lyb-den-um



Mt. Vernon Junior High School, Los Angeles, California, in which eleven tons of Toncan Iron is used. Austin & Ashley, Architects. J. Herman Co., Ventilating Contractors. O. W. Ott, Mechanical Engineer.

**A** RCHITECTS everywhere have long known and specified Toncan Iron for cornices, roofing, ventilating ducts, metal sash—in fact, wherever sheet metal is exposed to moisture and the elements. It has withstood the test of time. It has long since proven its value. Architects placed in it the same confidence they placed in brick and stone.

Now this iron has been made even better. It is the first time that super-alloy — mo-lyb-den-um—has been em-

ployed in sheet iron for building purposes. Combined with copper in a pure iron base, mo-lyb-den-um yields a resistance to rust and corrosion never before attained in a commercial iron.

It is a metallurgical achievement no architect can afford to ignore. It means longer life to buildings and better satisfied clients. The new Toncan book, "The Path to Permanence," gives complete information on this greatly improved product. Send for a copy.



## CENTRAL ALLOY STEEL CORPORATION, MASSILLON, OHIO

Makers of AGATHON ALLOY STEELS

Cleveland  
Syracuse

Detroit  
Philadelphia

Chicago  
Los Angeles

New York  
Tulsa

St. Louis  
Cincinnati

San Francisco  
Seattle

Specifications of most products advertised in *THE AMERICAN ARCHITECT* appear in the *Specification Manual*

# Von Duprin

## Self-Releasing Fire Exit Latches

The known reliability of Von Duprin latches is merely the logical result of their rugged simplicity, their strength of design, their painstaking workmanship.

ADA

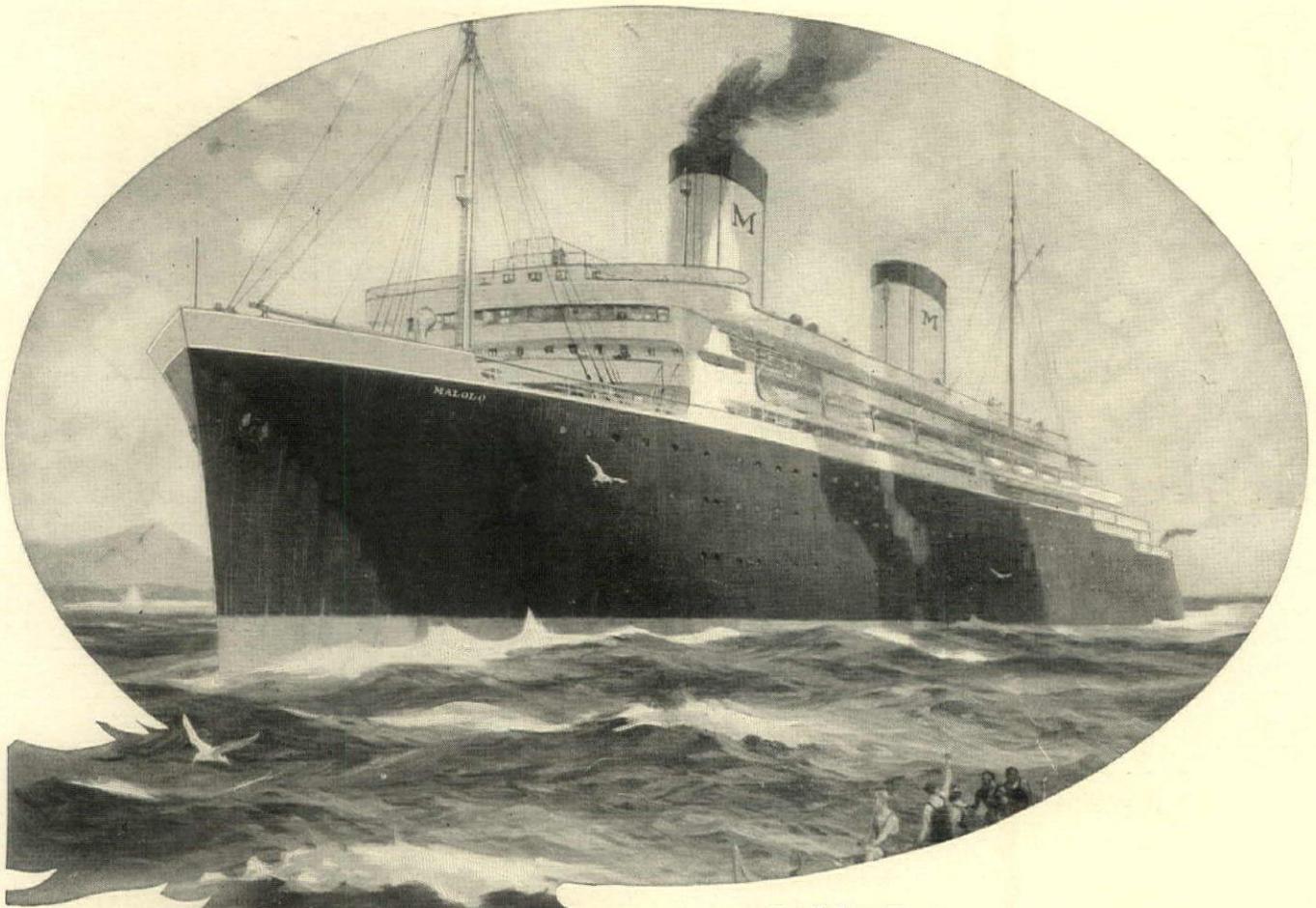
VONNEGUT  
HARDWARE CO.

Indianapolis, Ind.

1852 *Our 75th Anniversary* 1927



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*Public Rooms in*  
**LARGEST S. S. EVER BUILT IN AMERICA**

Equipped with

**KAWNEER  
 NICKEL-SILVER WINDOWS**

**O**F THE MANY common elements, sea water is one that is recognized as a rapid destroyer of metal. Its saline content, which consists of sodium chloride, corrodes those metals which, under ordinary conditions, show remarkable endurance.

A ten weeks' test, exposing three widely used non-corrosive metals to the spume and spray of the sea, revealed surprising results. A microscopic examination showed that while two were severely effected, the third or Kawneer Nickel-Silver, remained unmolested.

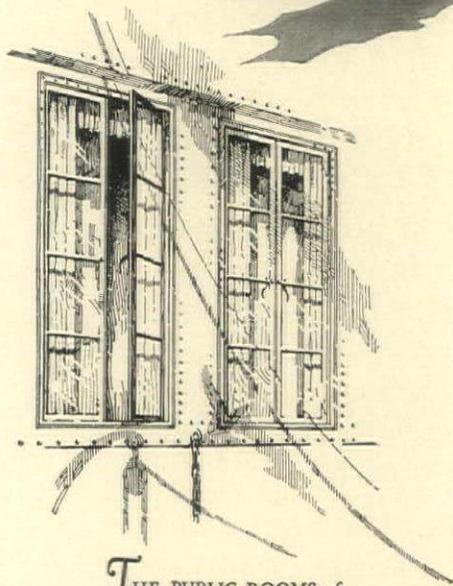
This last mentioned alloy is used in the manufacture of Kawneer casement and weight hung windows—windows which are adaptable to structures for both land and marine use. They require no painting, no future upkeep, offer perfect weathering and blend beautifully with any type of building.

*Write for further information.*

**THE  
 Kawneer  
 COMPANY**  
 NILES, MICH.

**Branch Offices and Sales Agencies in 128 Cities**

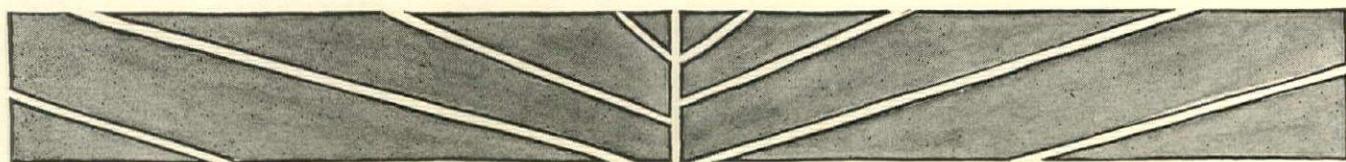
*Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual*



**T**HE PUBLIC ROOMS of the S. S. Malola are equipped with Kawneer Solid Nickel-Silver self-adjusting casements. This steamship is being constructed by W. Cramp & Sons Ship Building Company, Philadelphia, and is the largest and fastest ever built in America.

PATENTS PENDING





# Vita Glass transmits health -- it should be specified wherever possible

**A** TEST by the Medical Officer of Health at Smethwick, England, showed that children in rooms glazed with Vita glass grew faster, weighed more and were healthier than other children. Other school tests have produced similar results.

Vita glass transmits the ultra-violet health rays of daylight to the extreme limit of the sun's spectrum, including the vital rays. Its transmission qualities are attested by eminent scientific authorities and have stood the test of time. Ordinary window and plate glass, as you know, entirely obstruct vital ultra-violet irradiation.

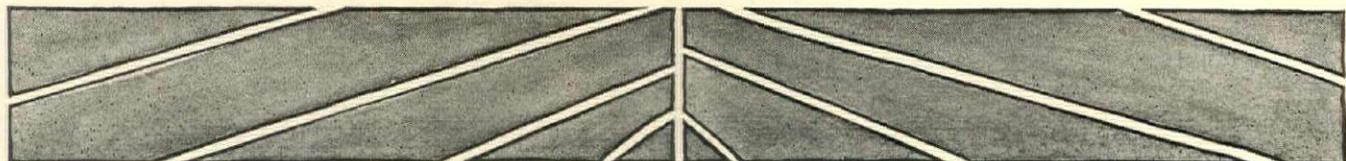
Within a few years, it is probable that this new glass will be specified for every new school construction. In this country it has already been ordered or in-

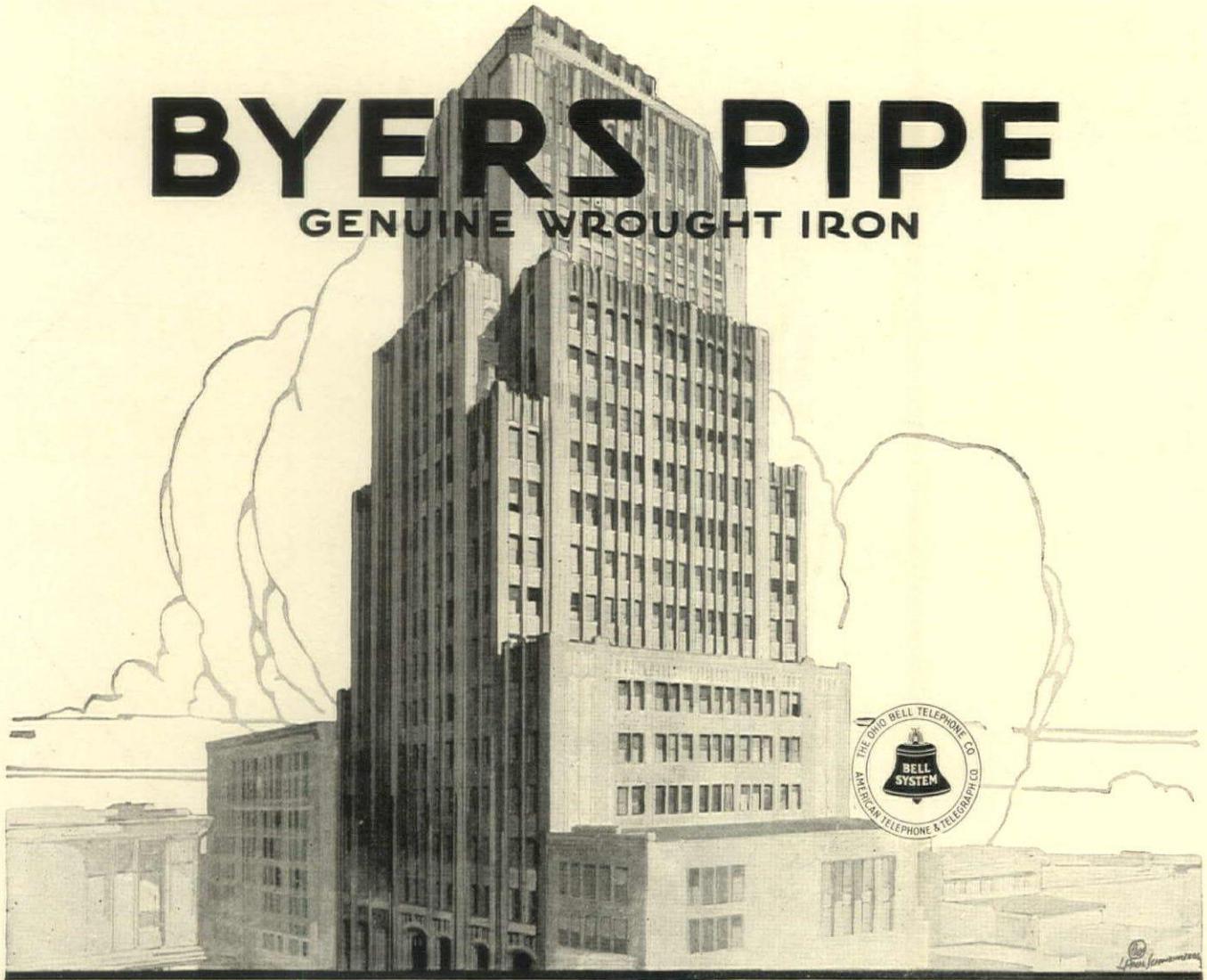
stalled for thirty-five hospitals, sanatoria and schools in addition to hotels and office buildings.

For Vita glass not only aids heliotherapy, helps convalescents, and stimulates the growth of children through its transmission of ultra-violet health rays, but it also adds greatly to the energy and health of adults. Its use will become general, for its price is within the general reach.

Vita glass is a genuine glass, manufactured in two forms—clear and cathedral. Both glasses are supplied cut to specification, ready for installation. Each light bears the trade-marked label etched in one corner.

May we tell you in detail about Vita glass? VITAGLASS CORPORATION, 50 East 42nd Street, New York, N. Y.





## Where *Rust-Protection* is vital, Byers is chosen

A MASSIVE structure of inspiring architecture, is the new 22-story building of the Ohio Bell Telephone Company, in Cleveland. With the telephone equipment which it shelters, it represents an investment of nearly eleven millions of dollars.

Modern plumbing and heating systems, designed for the health and comfort of some 2,000 workers, form an extensive network of pipes, concealed behind walls and beneath floors, throughout the building.

Such systems, in such a building, must at all hazards be designed to resist rust from within, if untold damage to the premises is to be prevented in future years, and the public is to be served, without interruption, according to the high standards of the Bell Telephone Company. Hence the extensive use of rust-resisting Byers Pipe, in this as in other monumental buildings erected in the past

by the Bell Telephone Companies in many important cities.

Byers Pipe was installed for cold water supply and drinking water lines, refrigeration, soil stacks, waste and vent lines, comprising the most vital parts of the plumbing system, and further, also for the return lines in the heating system.

In all of these services, experience

has amply demonstrated the advisability of using pipe of more than ordinary rust resistance, and Byers has notably proven its economy by happily combining moderate first cost with long life in service.

It is common experience to find genuine wrought iron pipe of Byers quality only superficially corroded after upwards of 40 years service in buildings and underground, in every part of the country. These records indicate a probable life of upwards of 75 and 100 years for most purposes where Byers pipe is subject to corrosive attack. Backed by such a record of service, it is only logical that Byers should be chosen by the most experienced architects and engineers, for the permanent protection of building investments.

**A. M. BYERS COMPANY**  
Established 1864, PITTSBURGH, PA.



Messrs. Hubbel & Benes, of Cleveland, were the Architects and Engineers; Mr. Issac Hathaway Francis, of Philadelphia,

Associate Consulting Engineer; and Smith & Oby Company, of Cleveland, Plumbing and Heating Contractors.

There is but one  
Master Drawing Pencil and that is

**DIXON'S  
ELDORADO**  
*the master drawing pencil*

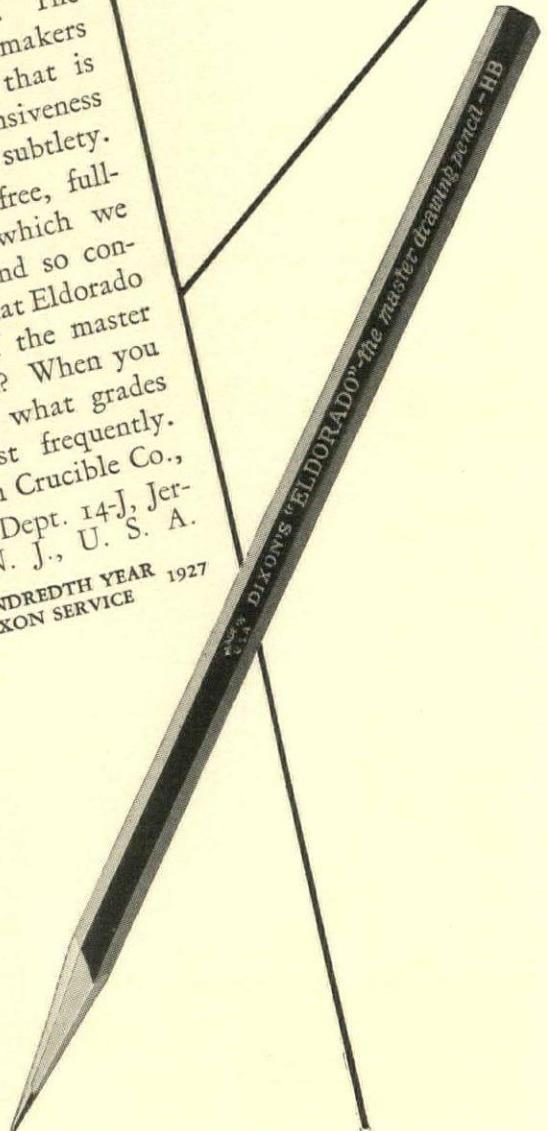
DRAWING with Dixon's Eldorado will open your eyes to the superiority of this Master Drawing Pencil over any other pencil regardless of where it is made.

For Dixon's Eldorado is made to meet the specific needs of engineers, architects and draftsmen. The standards set by its makers result in a pencil that is unequalled in responsiveness . . . strength . . . subtlety.

Will you try, free, full-length samples which we will send you and so convince yourself that Eldorado is the name of the master drawing pencil? When you write, specify what grades you use most frequently.

Joseph Dixon Crucible Co.,  
Pencil Sales Dept. 14-J, Jersey City, N. J., U. S. A.

1827 THE HUNDRETH YEAR 1927  
OF DIXON SERVICE



Every Concrete Floor in the Paramount building is protected by

# LAPIDOLITH

TRADE MARK

*The Original Concrete Floor Hardener*

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A complete line of  
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AA-7



New Hotel Breakers,  
Palm Beach, Florida.  
Leonard Schultze,  
Architect. Turner  
Construction Com-  
pany, Builders.  
Structural designs  
by H.C. Balcom, Con-  
sulting Engineer.



## Strength, Permanence *and* Beauty

The new Hotel Breakers at Palm Beach, built after fire had destroyed the famous old hotel of the same name, is of portland cement concrete throughout. The contract was awarded in December, 1925, and the hotel was completed and ready for guests in December, 1926. Q Speed of construction was made possible by the fact that the hotel is of reinforced concrete, thus utilizing the highest proportion of materials available locally or nearby. This was important because of freight congestion and railway embargoes existing in Florida during the construc-

tion period. Q While under construction, the hotel successfully withstood two tropical hurricanes—a most rigorous test of strength. Q The exterior surface is portland cement stucco of rough texture, high-lighted to a pleasing buff tint; decorative details are of ornamental cast stone, considerably darker than the stucco surface. Q Strength, permanence, firesafety and beauty are built into the entire structure—a combination which the use of portland cement concrete makes possible in the erection of any building, whether large or small, ornate or simple.

**PORTLAND CEMENT** *Association*  
*Concrete for Permanence* CHICAGO

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# OTIS ESCALATORS

*For use in*

DEPARTMENT STORES  
RAILROAD and STEAMSHIP TERMINALS  
ELEVATED and SUBWAY RAILWAY STATIONS  
THEATRES - FACTORIES

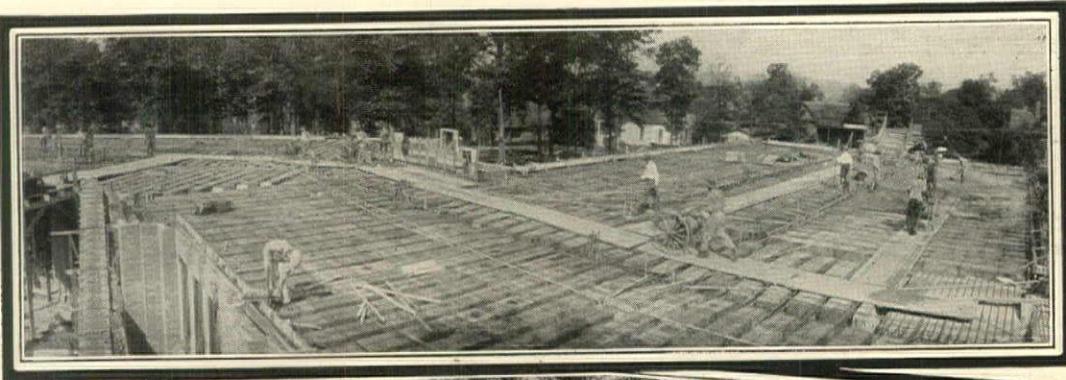
The installation of Escalators in Department Stores has had a remarkable growth in the last few years as their great advantages for that class of transportation, as an adjunct to the elevator system, has been fully recognized from the results obtained.

**G**IMBEL BROTHERS Store in New York went along for over fifteen years without Escalators. Then they installed 10 in their Philadelphia Store. Now they are putting in 26 in their New York Store.

*The conclusion is obvious.*



**OTIS ELEVATOR COMPANY**  
OFFICES IN ALL PRINCIPAL CITIES  
OF THE WORLD



Two views of the New High School at Little Rock, Ark.

Architects—  
Associated Architects,  
Little Rock.

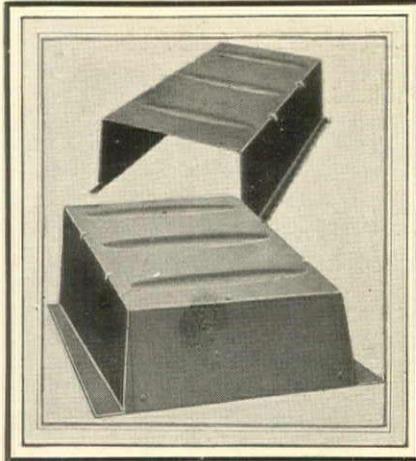
General Contractor—  
Gordon Walker,  
Little Rock.

Engineers—  
Garner & Morrow  
Little Rock.



## 175,000 sq. ft. of MEYER Removable Steelforms on this Little Rock High School

{ The maximum floor area occurred on the second floor where 55,000 sq. ft. of equipment was required. }



AS in Little Rock, so in hundreds of other cities from Canada to the Gulf and from Ohio to the Pacific Coast, Meyer and Ceco Products are assisting architects, contractors and engineers in lowering reinforced concrete building costs.

MEYER Steelform construction in common with other types of concrete joist construction, is most economical for buildings with lighter loads and longer spans, such as

apartments and hotels, residences, schools, hospitals, office buildings, garages, light manufacturing buildings, etc. In this class of structure, the dead weight of construction is a considerable factor in the total load, so that the saving in dead load effected by MEYER Steelform construction affords a considerable saving in cost.

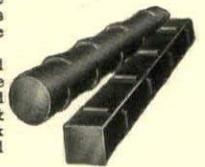
The concrete joist floor, like its predecessor, the wood joist floor, has always required less material for ordinary conditions of loading than other types of design. This economy of concrete and steel was never apparent until the cost of formwork was reduced by using a permanent equipment of MEYER Removable Steelforms, by means of which re-use was secured.

# MEYER STEELFORMS

are handled on a rental basis only, and are leased to contractors or owners for use on specific work. Ordinarily the labor of installing and removing the steelforms by our skilled workmen is included with the rental charge. The economy in the re-use of MEYER Steelforms on a rental basis, is readily apparent.

In building the formwork for the concrete joist floor, MEYER Steelforms are used as a mould for the joists and intervening slabs, the load being carried by the joists in one direction to the supports. Continuous joists are produced by lapping the Intermediate Steelforms and the ends of the rows of Intermediate Steelforms are closed with endforms.

**CECO** Reinforcing Bars are rolled only from new billet steel and are furnished in deformed rounds and squares. The deformations are at right angles to the axis of the bar and thus provide a more positive bond. Ceco Reinforcing Bars and Ceco Column Spirals are tested and inspected by the Robert W. Hunt & Co., and are kept in stock at all warehouses listed below.



### Our Engineering Service—

Our sales department is technically trained and ready to assist architects, contractors and engineers in the design and execution of reinforced concrete work. Do not hesitate to ask for this service.



**Proved Products—MEYER Steelforms.** Adjustable All-Steel Shores and Adjustable Column Clamps. **CECO** Reinforcing Bars, Column Spirals, Bar Chairs and Spacers, Triangle Mesh and Electrically Welded Fabric. **CECO** Metal Lath, Hook Hangers, Furring Channels, Beads and Moulding. **CECO** Metal Weather Strips and Screens. Send for *Handbook of Fireproof Construction*. Address our Omaha Office, Dept. 271

## CONCRETE ENGINEERING CO.

CHICAGO  
MILWAUKEE

KANSAS CITY  
DES MOINES

OFFICES AND WAREHOUSES:  
MINNEAPOLIS  
DALLAS

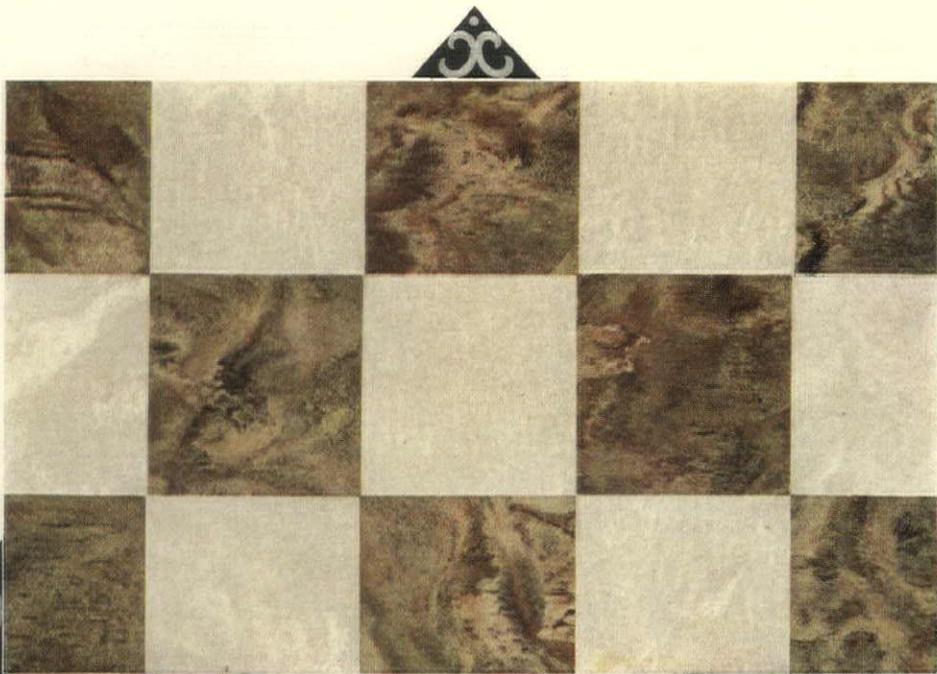
ST. LOUIS  
DETROIT

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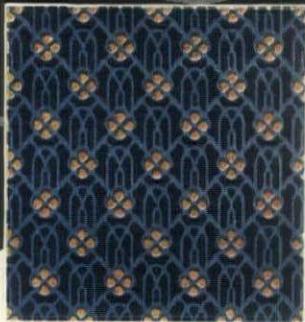
For the bedroom, a floor of the dainty carpet pattern shown below may be most appropriate, either in this or other color combinations. This design is Moulded Inlaid No. 5442. The 1927 Armstrong Pattern Book shows many other distinctive patterns.



For specifications, write for the 1927 file-size edition of "Armstrong's Linoleum Floors" or consult Sweet's Architectural Catalogue, pages 1400 to 1405.

Below is Armstrong's Green Jaspé No. 19.

Above is Armstrong's Marble Inlaid No. 84. The blocks are 9 x 9 inches.



# An apartment... how will it rent?



—The floors you specify will help answer that question

As a designer of apartments, you know the importance of planning things that will appeal to the prospective tenant. So you specify such eye-catchers as rough textured walls, an arched doorway, or a built-in bookcase, perhaps.

A still further opportunity may be found in the use of floors of Armstrong's Linoleum. Prospective tenants respond immediately to the beauty, the practicability of these floors. Decorative possibilities are instantly suggested.

Such a floor has an added appeal to your client, the apartment house operator. For a floor of Armstrong's Linoleum requires no annual fixing up, no costly refinishing. Its first cost is its last. Upkeep is very low.

Today with modern building construction tending more and more toward the use of steel

and concrete, you cannot select a more practical, more sensible floor than one of Armstrong's Linoleum. It can be cemented right over the concrete underfloor.

Recent developments in linoleum texture and design have been quite startling. If you are not fully acquainted with these innovations and will write us, we will send you samples and colorplates.

We shall also be glad to assist you in planning color schemes for projects you will describe to us, complete even to the wall and woodwork finishes, draperies, and furnishings, as well as floors of correct color and designs. Armstrong Cork Company, Linoleum Division, Lancaster, Penna.

Look for the CIRCLE A trade-mark on the burlap back



**Armstrong's Linoleum** for every floor in the house

PLAIN • EMBOSSED • INLAID • ARABESQ • JASPÉ • PRINTED

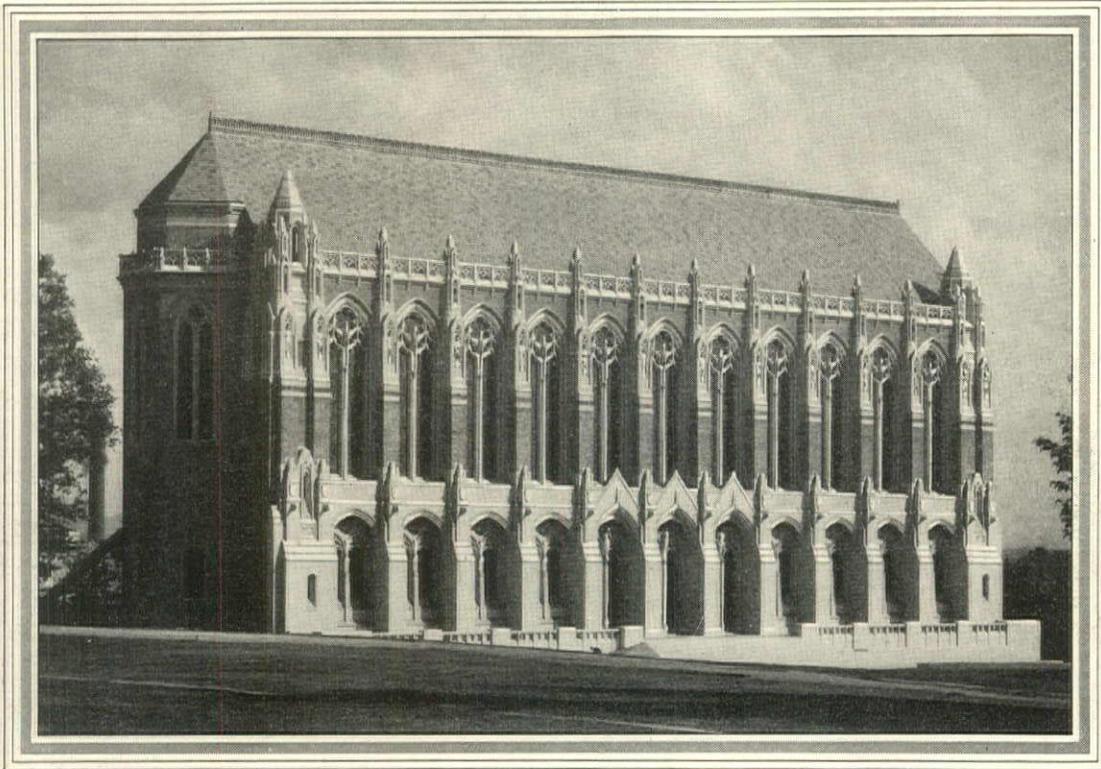
150 Pounds Pressure



# CRANE VALVES



2500 Pounds Pressure



The new library building of the University of Washington, Seattle. Architects, Bebb and Gould. General Contractors, Dugan and Chrisman. Plumbing and Heating Contractors, McNeal and Taylor Co. Crane plumbing and heating materials installed.

## WHEN BEAUTY IS ONE OF THE SPECIFICATIONS

Happy is the architect permitted to plan a building in which beautiful architecture is a first consideration, not simply a by-product of utility.

Such an opportunity was recently given to Architects Bebb and Gould when the University of Washington at Seattle commissioned them to design a new library for the campus group.

The resultant Gothic building is a notable addition to the many lovely structures which adorn the young cities of the Pacific coast.

Like so many other monumental buildings, planned primarily with dignity and permanence in view, the new library has been equipped with Crane plumbing and heating materials.

# CRANE

*Address all inquiries to Crane Co., Chicago*

**GENERAL OFFICES: CRANE BUILDING, 836 S. MICHIGAN AVENUE, CHICAGO**

*Branches and Sales Offices in One Hundred and Sixty-two Cities*

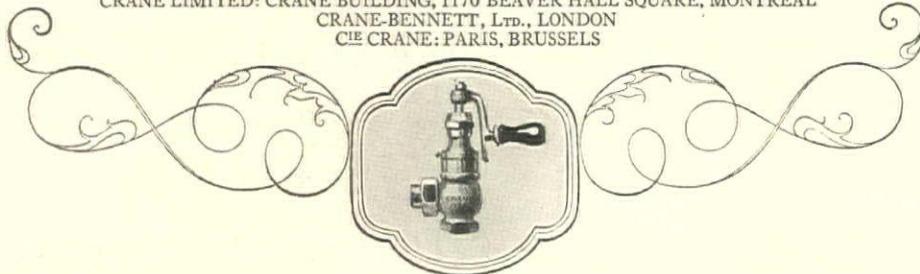
*National Exhibit Rooms: Chicago, New York, Atlantic City, San Francisco, and Montreal  
Works: Chicago, Bridgeport, Birmingham, Chattanooga, Trenton, Montreal, and St. Johns, Que.*

**CRANE EXPORT CORPORATION: NEW YORK, SAN FRANCISCO, MEXICO CITY, HAVANA**

**CRANE LIMITED: CRANE BUILDING, 1170 BEAVER HALL SQUARE, MONTREAL**

**CRANE-BENNETT, LTD., LONDON**

**C<sup>IE</sup> CRANE: PARIS, BRUSSELS**



Radiator Valve No. 231

*Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual*

Pop thinks all motors are alike



**“Listen, Lad—**

I was talking with my friend today about getting some more motors from him.

I told him all you’ve been saying about your pet welded-steel motor but he just smiled and said that you’ve been misled by ‘talking points.’ He admitted that all motors are basically the same.”

**“Yes, Pop—**

and all men are born equal — but it’s to their shame if they stay that way.

Specialized endeavor lifts a man out of the standardized class.

And that’s just how the “Linc-Weld” motor rose above its class.

Its whole engineering is directed to a single end: Motors.

And this development is sub-specialized into *Motors for specific purposes.*

If you want a pump motor — there’s a “Linc-Weld” motor for just that.

If you want an elevator motor — there’s a distinct “Linc-Weld” motor for just that.

If you want a motor for any duty — there is a distinct “Linc-Weld” motor for just that.

Name your service and you get distinct, specialized, proved experience on that job exclusively.

Your friend’s admission that all motors are born equal was over optimistic sales zest. “Linc-Weld” motors are now in long pants instead of long whiskers.

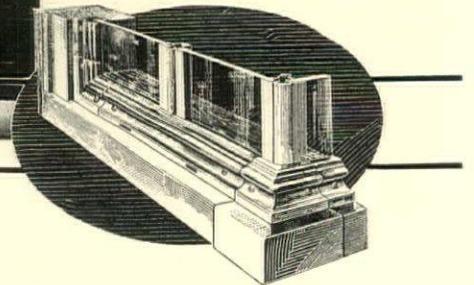
The Lincoln Electric Co., Dept. No. 11-7, Cleveland, Ohio

MA-16

**“Linc-Weld”**

**LINCOLN MOTOR**

*Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual*



## Fronts That Harmonize

No matter what the architectural period or design, there is a Desco store front that will harmonize perfectly—blend right into the building.

The Stanley Anderson Arcade, in Beverly Hills, Los Angeles . . . designed by Asa Hudson, architect, and built by C. L. Peck, contractor . . . is a fine example of Desco adaptability.

The country over, in every type and size of building, Desco fronts can be found. Everywhere, they are meeting with the full approval of architects and builders because of their superior quality and wide variety of shapes and combinations of designs.

Specify Desco fronts and you will lay the foundation to genuine satisfaction of everybody concerned.

*Your request will bring complete working details and a price-list, without obligation. Sweet's Catalogue also contains further information. There is a distributor near you. A complete stock of "Desco" construction materials is carried in our New York City warehouse, 562 West 52nd Street.*

DETROIT SHOW CASE COMPANY, 1670 Fort Street, West

DETROIT, MICH.

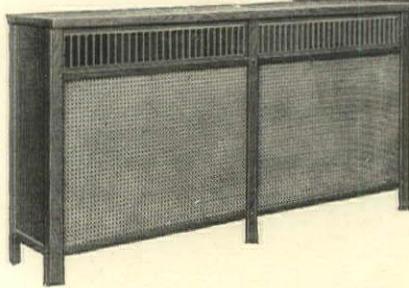
**Desco**  
METAL

**STORE FRONTS**

*Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual*

(300)

The combination finish below is very effective. The steel woven cane has a natural cane finish—the body of the Enclosure is walnut grain.



## No Accident—

It is no matter of chance that the Hart & Cooley Enclosure "THERMAINO" has been widely accepted as supreme in its field. Such a happy combination of beauty and efficiency would be a winner *anywhere*.

Naturally enough there are definite reasons why "THERMAINO" has forged its way to the front. Especially noteworthy features are the VERTICAL BAR GRILLE at the top, with its generous open area for the free flow of air, and the AIR-INSULATED Top which keeps this part cool under all conditions.

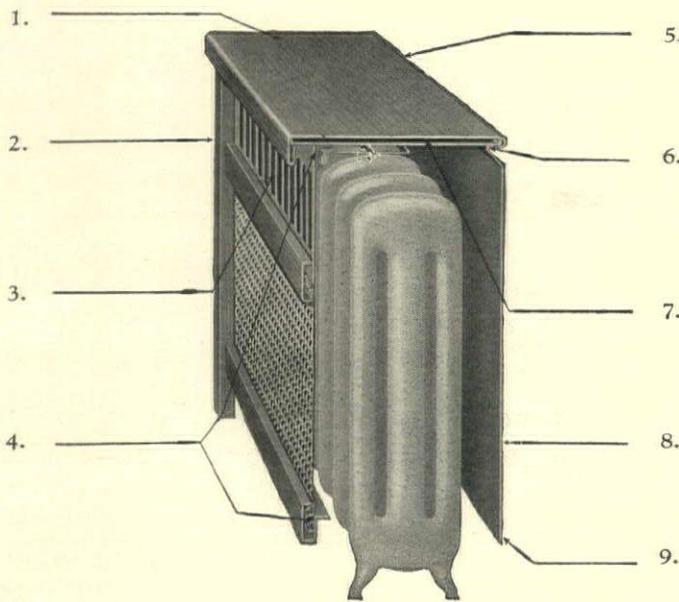
Other important features are graphically shown below.

Top easily raised for filling humidifier if one is used.

Invisible doors on ends permit access to valves.

Grille with large openings permits free flow of warm air.

Strong and rigid welded angle iron frame.



1. "H & C" Hinge. Top may be removed for cleaning.

2. Dust-proof joint. No chance for dust to escape.

3. An Insulation keeps top cool.

4. Back at extreme rear allows installation close to wall.

5. Back may be put in last. Facilitates installation.

Hart & Cooley Enclosures and Shields are all steel—made to serve a life-time. They are available in several grained finishes and all flat finishes to harmonize with other appointments.

A new freely illustrated folder "The Modern Mode" is just off the press. It shows "THERMAINO" and other H. & C. Enclosures and Shields in many different settings. A copy is yours for the asking.

**THE HART & COOLEY MFG. CO.**  
CORBIN STREET  
NEW BRITAIN, CONN.

New York

Philadelphia

Chicago

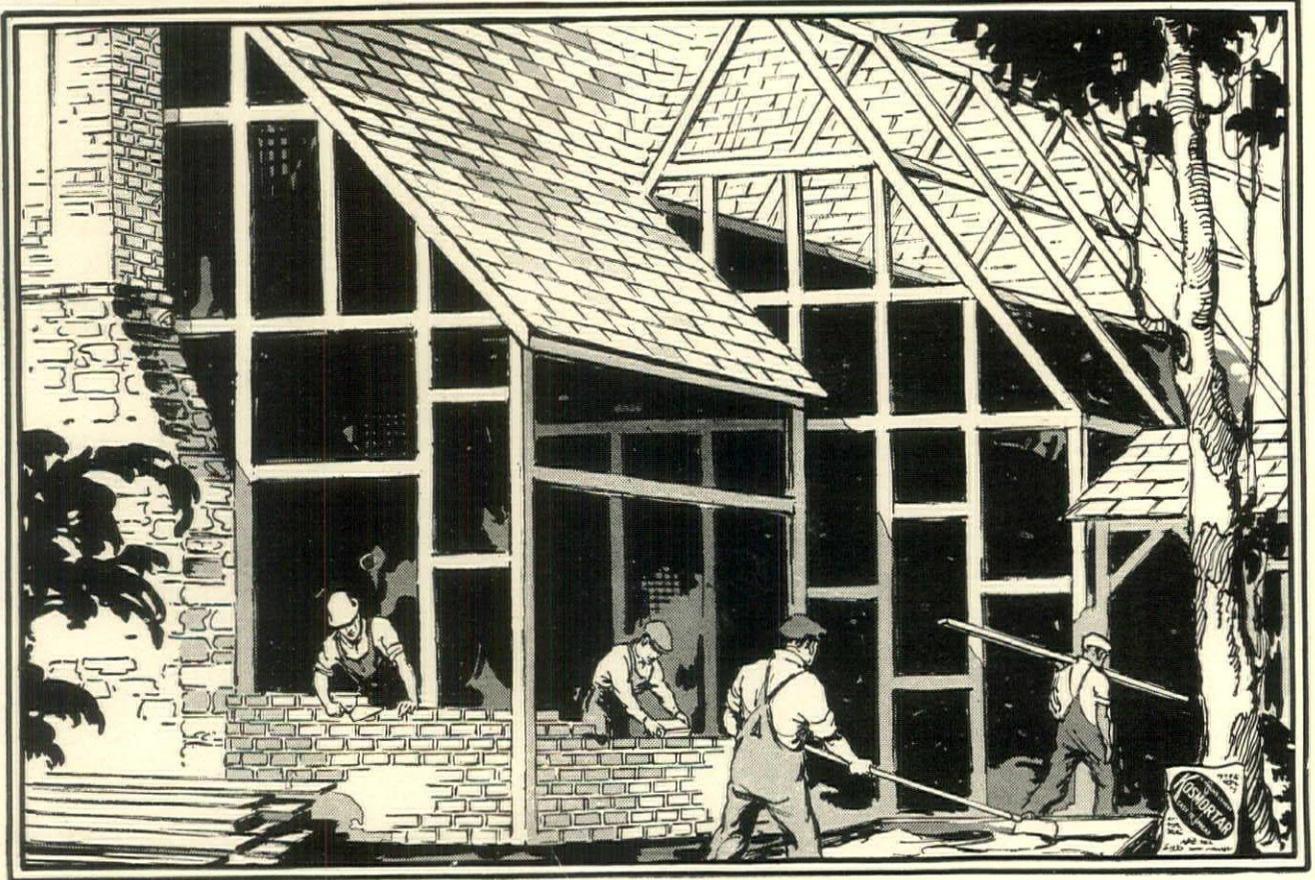
The Hart & Cooley Mfg. Co.  
Corbin St.,  
New Britain, Conn.

Send me descriptive matter on your line of Radiator Enclosures and Shields.

Send me a copy of "The Modern Mode".

Manufacturers of "H. & C." Wrought Metal Grilles and The Air Capacity Line of Warm Air Registers.  
Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual

# Less Time—Less Labor



## Kosmortar Increases Output While Saving Cost

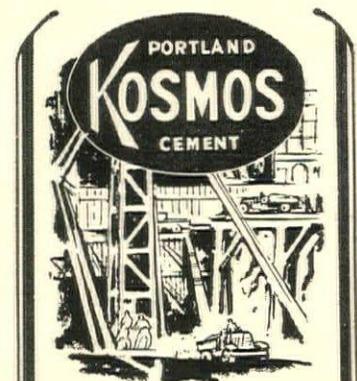
**A**S in no other business, time is money in the building industry. Wages go on whether workmen keep busy or—if they're masons—stand idle while waiting for more mortar.

Kosmortar, requiring neither slaking nor soaking, is mixed and used immediately. Its simple preparation saves labor and assures a ready supply. Kosmortar is plastic and smooth; spreads easily; does not drag or work short, and fairly gives wings to the trowel. Without conscious effort, the masons increase their production. When time

comes to clean down the walls more labor is saved by the clean-cut Kosmortar joints. Detailed information covering any point of interest will be furnished upon request. *The Ideal Cement for Masonry.* KOSMOS PORTLAND CEMENT COMPANY, Incorporated, Kosmosdale, Kentucky; Sales Offices, Louisville, Kentucky.

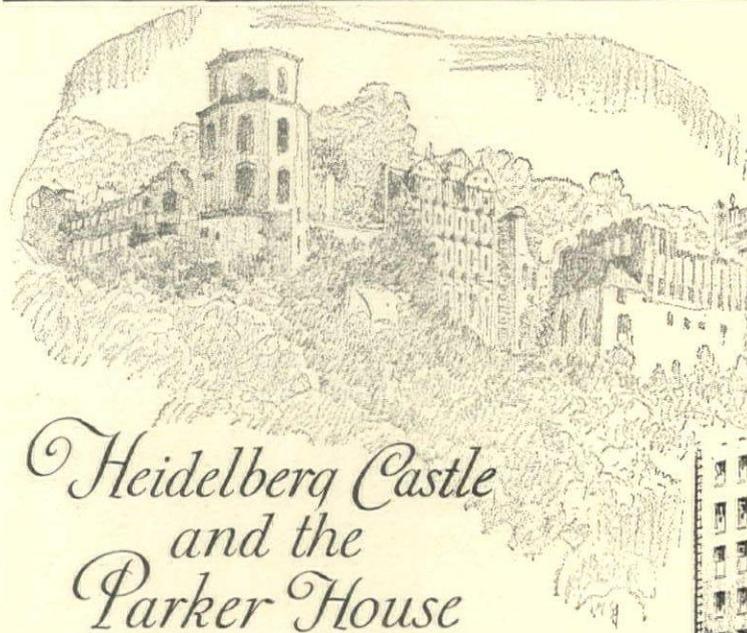
# KOSMORTAR

A MASON'S CEMENT—EASY TO SPREAD



*To construction jobs of every kind Kosmos Portland Cement gives the time-saving advantage of high early strength concrete, with the assurance of permanent soundness. Write for full information.*

MONUMENTS of the AGES

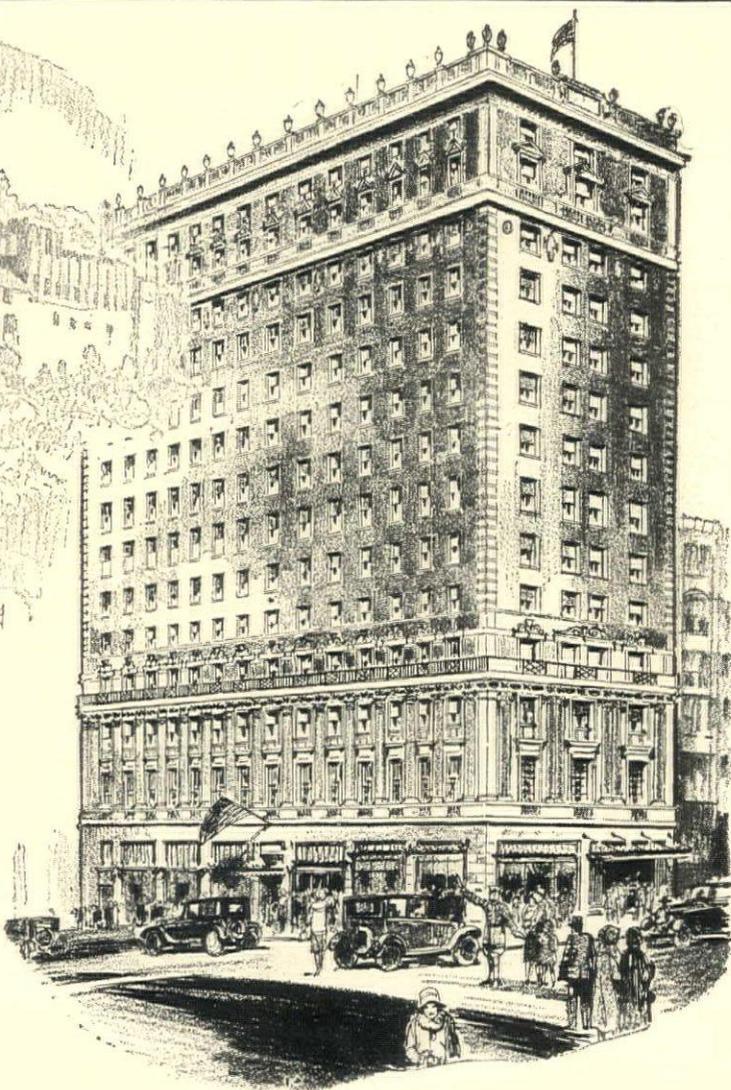


Heidelberg Castle  
and the  
Parker House

THE feudal barons of the Middle Ages threw wide their hospitable doors to the homeless traveller. Kings, princes, peers and commoners were welcome guests.

Equally rich are the traditions of the Parker House. A host of notable names throngs the pages of its registers . . . Emerson, Longfellow, Lowell, Holmes, Whittier, Hawthorne and Dickens, who said, "Boston is what I should like the whole United States to be." Here the famous Saturday Club met and here gathered the Alumni of the Boston Latin School—"the oldest school in America." For generations the Parker House has been known in every corner of the earth where travellers meet as the business, social and literary center of New England.

Now, a new and greater Parker House has risen to carry on the time-honored name. And in it Dahlstrom Elevator Inclosures, Metal Doors and Trim uphold the Parker House standards of supreme quality, quiet dignity and unfailing reliability.



THE PARKER HOUSE  
BOSTON, MASS.

Architects:

Desmond & Lord  
Boston, Mass.

General Contractors:  
George A. Fuller Co.  
Boston, Mass.

Complete elevator inclosures, metal doors and trim by Dahlstrom

DAHLSTROM METALLIC DOOR CO.

INCORPORATED 1904

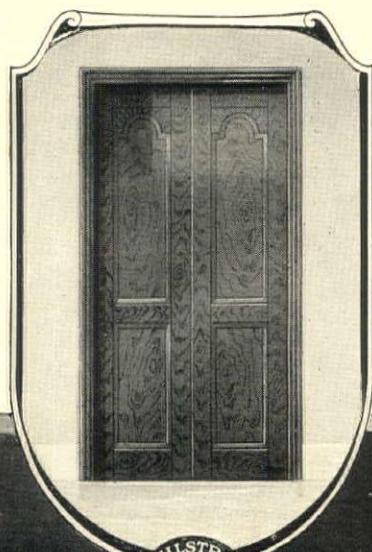
JAMESTOWN, NEW YORK

NEW YORK, 475 FIFTH AVE.

CHICAGO, 19 SO. LA SALLE ST.

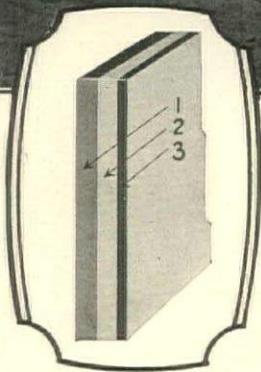
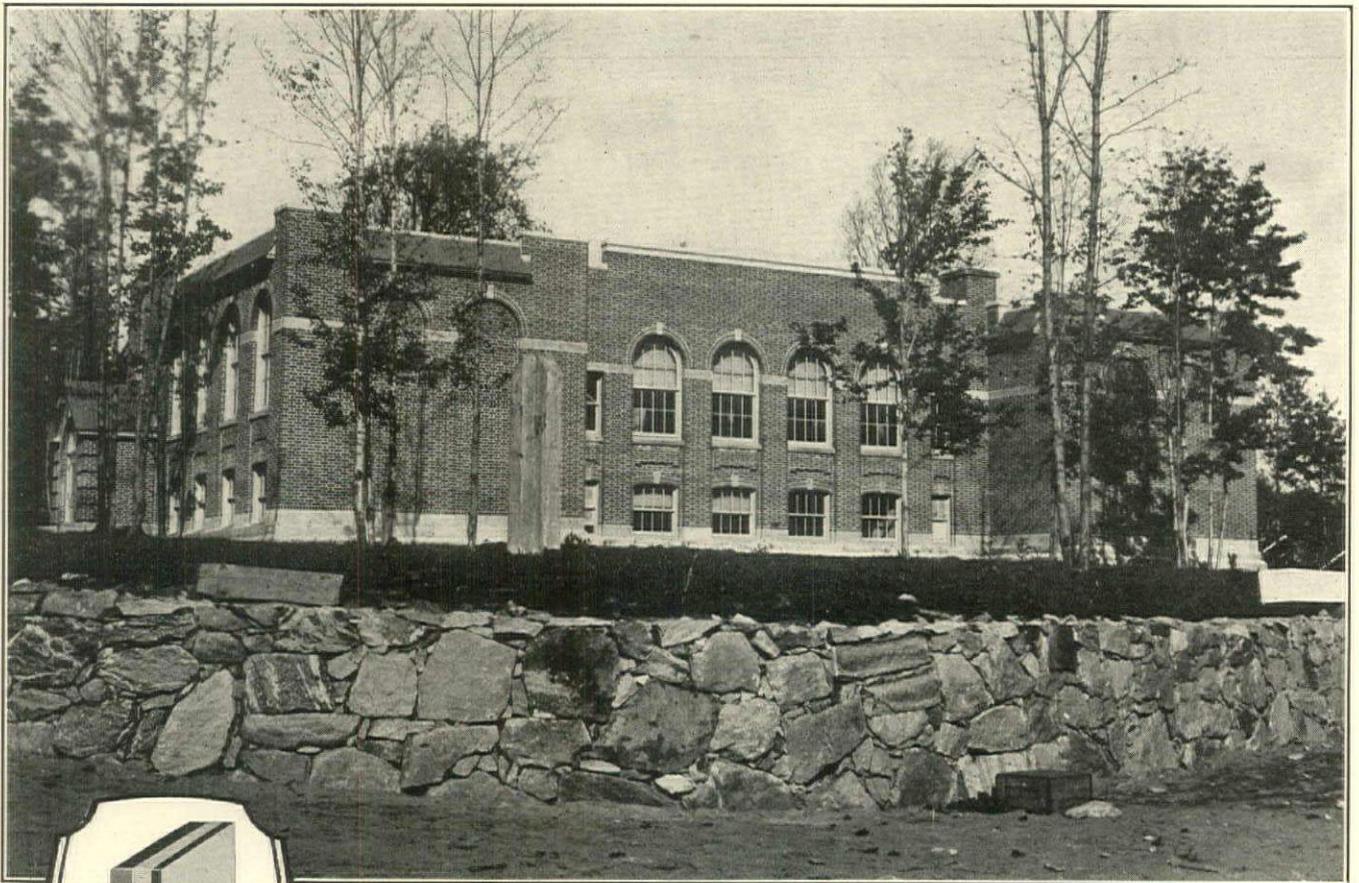
DETROIT, 1331 DIME BANK BLDG.

Representatives in principal cities



DAHLSTROM

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual



## Even in the Wilds of Canada

### CELESTIALITE'S THREE LAYERS

1. Of crystal clear transparency—for body and strength.
2. A layer of white glass—to diffuse the rays and soften the light.
3. A layer of blue glass—to whiten, clarify and perfect the light.

schools are using CELESTIALITE glass. And if those located at such remote points as Temiskeming find it worth while to send all the way to New York and pay duty into Canada on CELESTIALITE for the sake of giving their children the benefits of ideal lighting, then surely our schools here in the United States ought to be equally zealous to protect the eyesight of *our* school children.

CELESTIALITE consists of 3 layers of patented glass which diffuse and perfect the artificial light of the Mazda lamp. The result is a light resembling clear, natural daylight—unquestionably the best illumination. Pupils have neither to squint nor strain their eyes in it. For it actually *rests* the eyes and is soothing to the nerves.

Consider your plans for lighting requirements—and specify CELESTIALITE. Permanent lighting satisfaction will follow. Be sure to mail coupon for free fragment showing unique 3 layer construction.

**GLEASON-TIEBOUT GLASS CO.**

*Celestialite Division, 200 Fifth Ave., New York*

# CELESTIALITE

(PATENTED)

**MAN'S BEST SUBSTITUTE FOR DAYLIGHT**

**Mail Coupon TODAY**

Gleason-Tiebout Glass Co.  
200 Fifth Ave., N.Y.C.

Kindly send me free fragment of  
CELESTIALITE showing its three  
layer construction.

Name \_\_\_\_\_

Address \_\_\_\_\_

A. A. 8

## Apart from the Usual

By using Atlantic Terra Cotta for an entire facade the design can be worked up with originality of detail—in color, texture and modeling.

An unusual color is refreshing and not necessarily bizarre; there are many quiet colors in Atlantic Terra Cotta.

Textures are hand-wrought while the Terra Cotta is in the plastic stage, and a slight roughness lightly glazed gives a delicately luminous sparkle that is most attractive. The textures are widely varied.

The characteristic flexible modeling of Atlantic Terra Cotta is always interesting, whether grotesque or conventional. Low relief can be accented by using black or dark blue in the background. This is particularly effective for modeled detail at some distance from the ground.

The cost of Atlantic Terra Cotta is moderate. May we estimate your drawings?

### Atlantic Terra Cotta Company

19 West 44th Street, New York



### Atlanta Terra Cotta Company

Atlanta, Georgia

Chimney  
Pots  
revised  
catalog  
on  
request

# What Is a Good Kitchen?

CONSIDER THE KITCHEN from the viewpoint of the home maker. She wants it adequately lighted, properly ventilated, sanitary and beautiful—every work center carefully arranged in sequence of use—small enough for step-saving and large enough for modern equipment which *must* include a Red Wheel Gas Range, the center of kitchen activities.

In an old house, a woman will worry along with an old-fashioned, black stove with ovens below the cooking-top. But, she will not long tolerate that kind of stove in a new house or apartment. A large measure of the pleasure of buying or renting a new place is the satisfaction of having a kitchen with a new, clean, white-enameled Gas Range with Lorain Red Wheel.

The Lorain Red Wheel automatically controls the oven heat, maintaining any desired temperature for any length of time. Lorain-equipped Gas Ranges are nationally known, having been advertised in the leading national publications for more than eight years. Over 2100 schools, colleges, and universities use them to teach the art of cookery.

You'll find every conceivable size and style in the six Red Wheel lines—Dangler, Direct Action, New Process, Quick Meal, Reliable and Clark Jewel. For additional information, see Sweet's Catalog, 21st Edition, Pages C2977-C2986 or send for our Handbook on Gas Ranges for Architects and Builders.

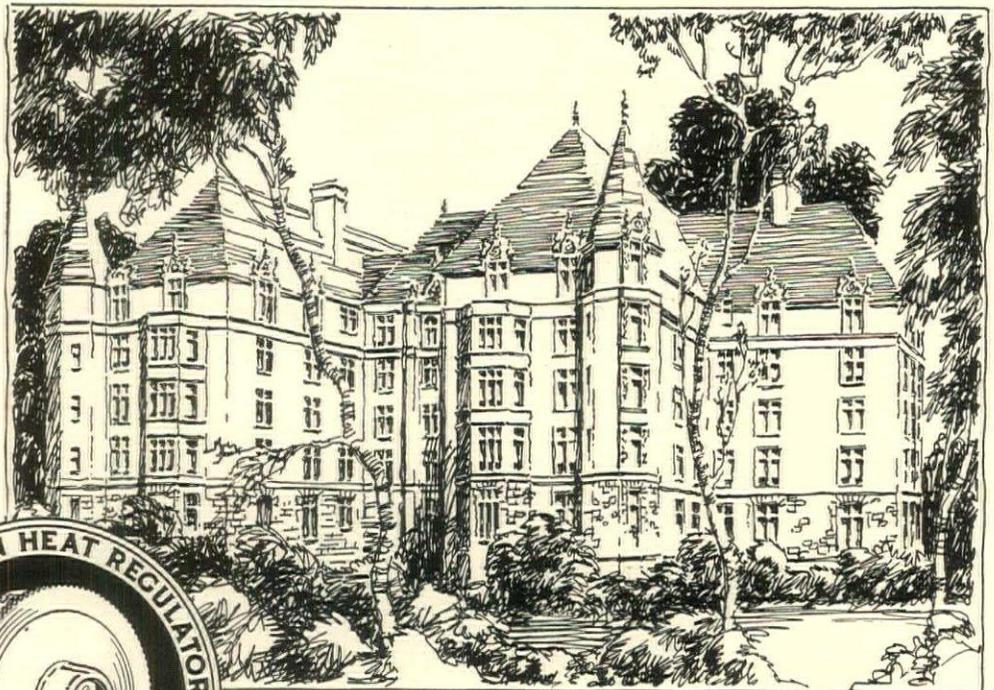
## AMERICAN STOVE COMPANY

Largest Makers of Gas Ranges  
in the World

333 Chouteau Avenue  
St. Louis, Mo.

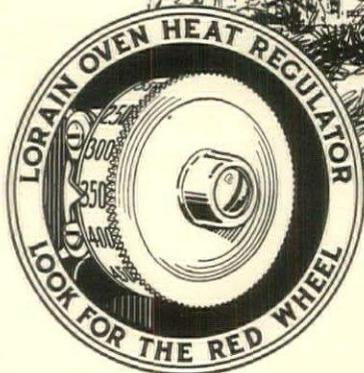


Type of "Reliable" Red Wheel Gas Range used in the kitchens of Country Club Manor, Los Angeles, Cal.



Country Club Manor, 316 North Rossmore Ave., Los Angeles, Cal. Architect, L. A. Bryant. Owners, John S. Holmes & Co., of Los Angeles. 39 Apartments, all furnished with "Reliable" Red Wheel Gas Ranges.

Unless the Gas Range  
has a RED WHEEL  
it is NOT a LORAIN



# L O R A I N

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual



## 29 Years of Service

**T**HE cork tile floor shown above was laid 29 years ago in a Bridgeport, Connecticut, restaurant. Today, after years of constant wear, it is practically as good as the day it was laid. The owner, Mr. Carl Schmidt, writes:

"It is still in first class condition and gives good service. I cannot recommend this floor too highly as its resistance to the great wear and tear that is necessarily placed upon it in a business such as mine is a very severe test of any floor."

Yet the wearing quality of a Novoid Cork Tile Floor is only one of its advantages. The various sizes of Light,

Medium, and Dark shades in which Novoid Cork Tile comes can be blended into an unlimited number of beautiful patterns. They make a warm comfortable floor, easy to walk on because of the natural resiliency of the cork. A Novoid Cork Tile floor is easy to clean and keep looking new.

### Write for Box of Cork Tile Samples

We shall be glad to mail you an attractive box of samples of Novoid Cork Tile, together with a descriptive bulletin in color showing designs and sizes available. *We maintain a permanent exhibit at the Architects Samples Corporation, 101 Park Avenue, New York.*

# Novoid Cork Tile

CORK IMPORT CORPORATION

Novoid Corkboard  
for  
Roof and Wall Insulation



345 W. 40<sup>TH</sup> ST. NEW YORK

Novoid Cork Covering  
for  
All Refrigerated Lines

*Beauty and Permanence with Insulation for Warmth and Quiet*

ATLANTA

BOSTON

BUFFALO

CHICAGO

PHILADELPHIA

ST. LOUIS

SPENCER CENTRAL VACUUM CLEANING SYSTEMS



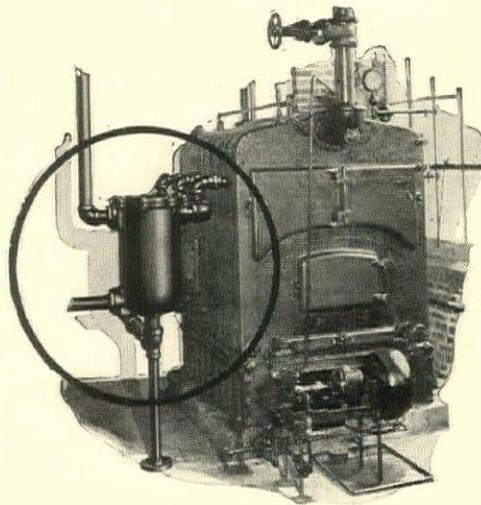
Detroit Trust Company, Detroit, Mich.  
Albert Kahn, Architect

**B**ANKING INSTITUTIONS, recognizing the business value of cleanliness that invites patrons, are immaculate from the safety deposit department to the general and private offices. Central vacuum cleaning systems installed as building equipment simplify cleaning problems. These systems are economical in operation and reduce cleaning costs. Complete information and engineering service on Spencer Central Vacuum Cleaning Systems are available upon request.

THE SPENCER TURBINE COMPANY  
HARTFORD, CONN.

DOMESTIC  
HOT WATER  
for  
PRACTICALLY  
NOTHING

With Excelso Indirect Water Heater connected to outside of steam or vapor boiler, one fire does double duty. It heats the home or building and heats the domestic hot water supply, too.



A typical Excelso installation. Send for views of other installations and valuable file material.

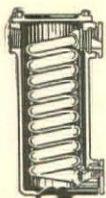
WHEN  
HEATED THE  
EXCELSON  
WAY

Easily connected to old or new boiler, using present pipes and fittings. Wide range of sizes and capacities. For the bungalow or the skyscraper; for one family or one hundred families.

Excelso Products Corporation  
DIVISION OF AMERICAN RADIATOR COMPANY

63 Clyde Ave.

Buffalo, N. Y.



Single coil heaters from 30 to 120 gal. capacity. Double coil heaters from 160 to 400 gal. Triple coil heaters, 600 gal. and 800 gal.

**EXCELSON**  
WATER HEATERS

Nationally Distributed by  
Leading Wholesalers and  
Boiler and Radiator Manufacturers.

LANCASTER  
**QUAKER BRICK**  
 LANCASTER BRICK CO., LANCASTER, PA.

QUAKER COLONIAL BRICK with its sand-moulded surface, its variegated colors, its irregular shapes, and its unusual markings—gives the architect ample scope to express his own individuality and taste in planning—an opportunity to create something different.

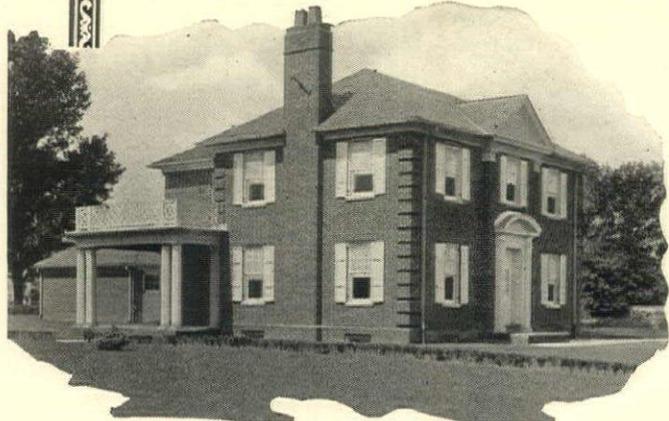
It simulates unusually well, the early hand-made Colonial Brick, and is being used by discriminating architects to recreate again architecture of this most interesting period. It should be laid preferably with raked joints, with gray, buff or white mortar. Comes in vertical or horizontal fire markings.

\* \* \*

*May we help you with your-building plans? May we send samples? There's no obligation!*

*Another Colonial home built 100% of Quaker Colonial Brick*

Melvorn R. Evans, *Architect*,  
 10 East Orange St., Lancaster, Pa.  
 Charles Green, *Contractor and Owner*,  
 1046 Buchanon Ave., Lancaster, Pa.



LANCASTER BRICK CO., LANCASTER, PA.



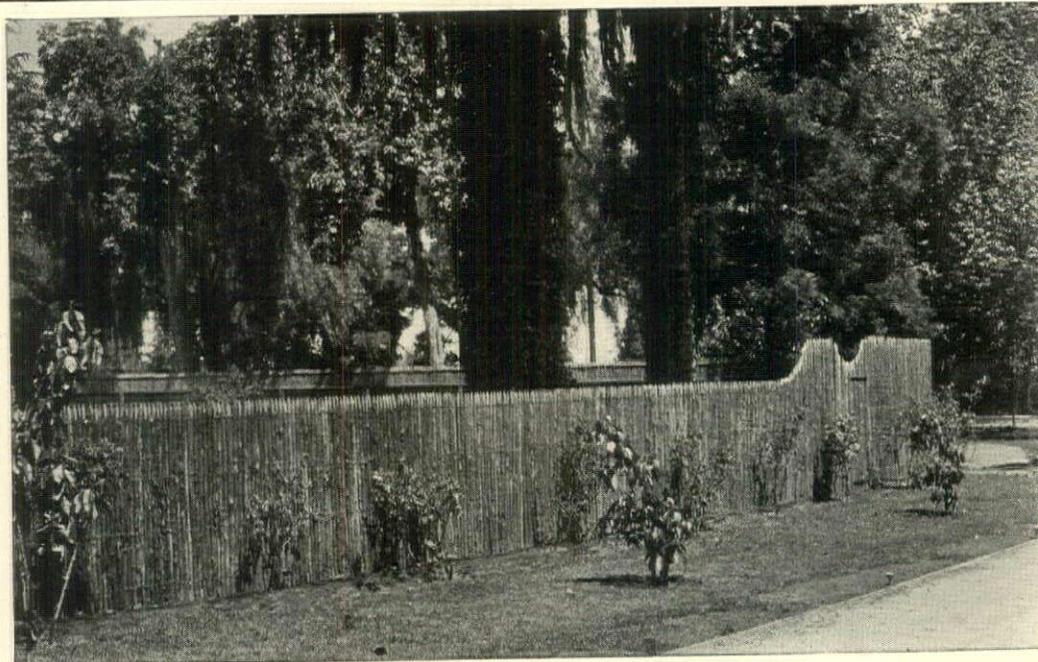
Entrance Lobby—Park Central Hotel, New York City—Edmund Ellis, Archt.  
 Duretta Panelled Wainscot

*DURETTA*

has been extensively used to particular advantage in fireproof construction as an indistinguishable substitute for woodwork. It will exactly reproduce the grain and finish of any wood and does not warp or check.

**G. E. WALTER**  
 157 EAST 44th STREET-NEW YORK

ORNAMENTAL PLASTERING  
 COMPO ORNAMENT



And in California  
it finds  
itself as much  
at home as  
in France

Photo by Martin, Pasadena

SO natural in appearance is Dubois that it can fit into practically any setting, or blend with any period or design of architecture.

Its use here amid the heavy foliage of Pasadena, over 6000 miles from its home, illustrates the point and shows how widely the vogue for this remarkable fence has spread.

New applications for Dubois are being constantly discovered. Its great strength, its long life, its talent for

screening unsightly views, its unique beauty combine to fit it for a wider range of service than any other fence.

Dubois is made in France of split, live, chestnut saplings woven closely together with heavy, rust-proof Copperweld wire. Comes in 5 ft. sections, in two heights, 4' 11" and 6' 6". Robert C. Reeves Co., 187 Water St., New York, are the sole importers, from whom prices and erection data may be had upon request.

## DUBOIS Woven Wood Fence

# RESISTS

### What Every Architect Should Know

CONCRETE and Steel, properly designed and combined, provide the highest known measure of bank vault protection. And in no other system than Steelcrete is there obtained positive 3-Point Protection—resistance to (1) cutting flame (2) drill (3) explosives.

Three-Point Protection stands guard in many of the world's leading banks, including the famous vault of The Federal Reserve Bank of New York, The Bank of England, Royal Bank of Canada at Montreal, Mitsui Bank of Tokio, Japan. And it is adaptable to vaults of every size.

*Let us send you typical details and specifications, list of notable installations, and certified reports from owners of Steelcrete Vaults. Ask any Consolidated office.*

#### The Consolidated Expanded Metal Companies

Steelcrete Building Wheeling, W. Va.

Atlanta  
Boston

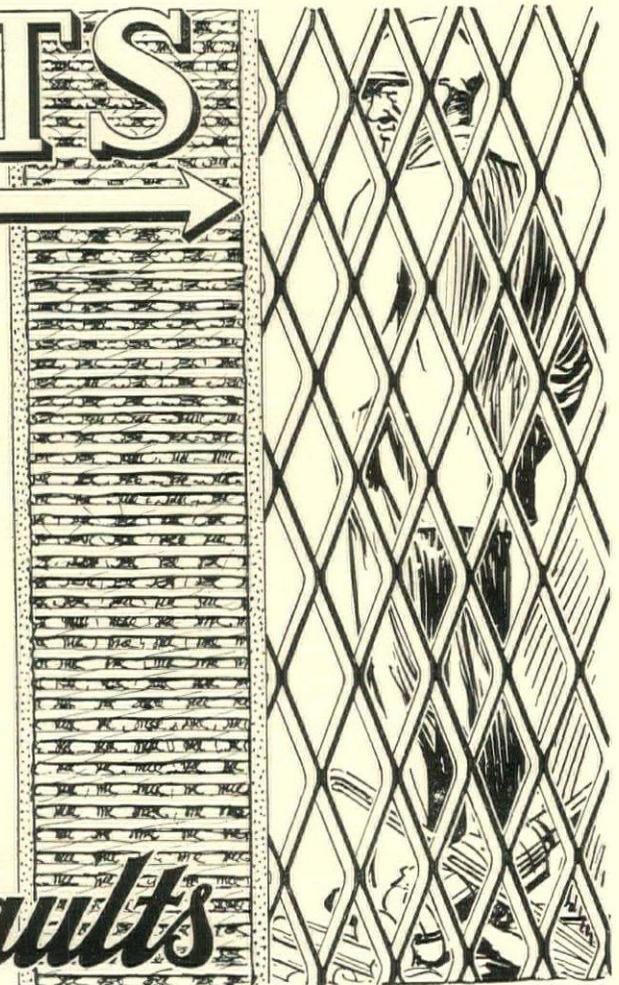
Cleveland  
Philadelphia

Pittsburgh  
Chicago

New York  
Buffa'o

# Steelcrete BANK Vaults

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual



# Speakman Chromium Plate on Speakman Showers and Fixtures

*A Popular Installation*



H-2370—Combination of the H-952½ Mixometer Shower and Deshler Bath Fixture. The Lavatory Fixture is the H-2276. All can be furnished in complete metal trim—Chromium plated.

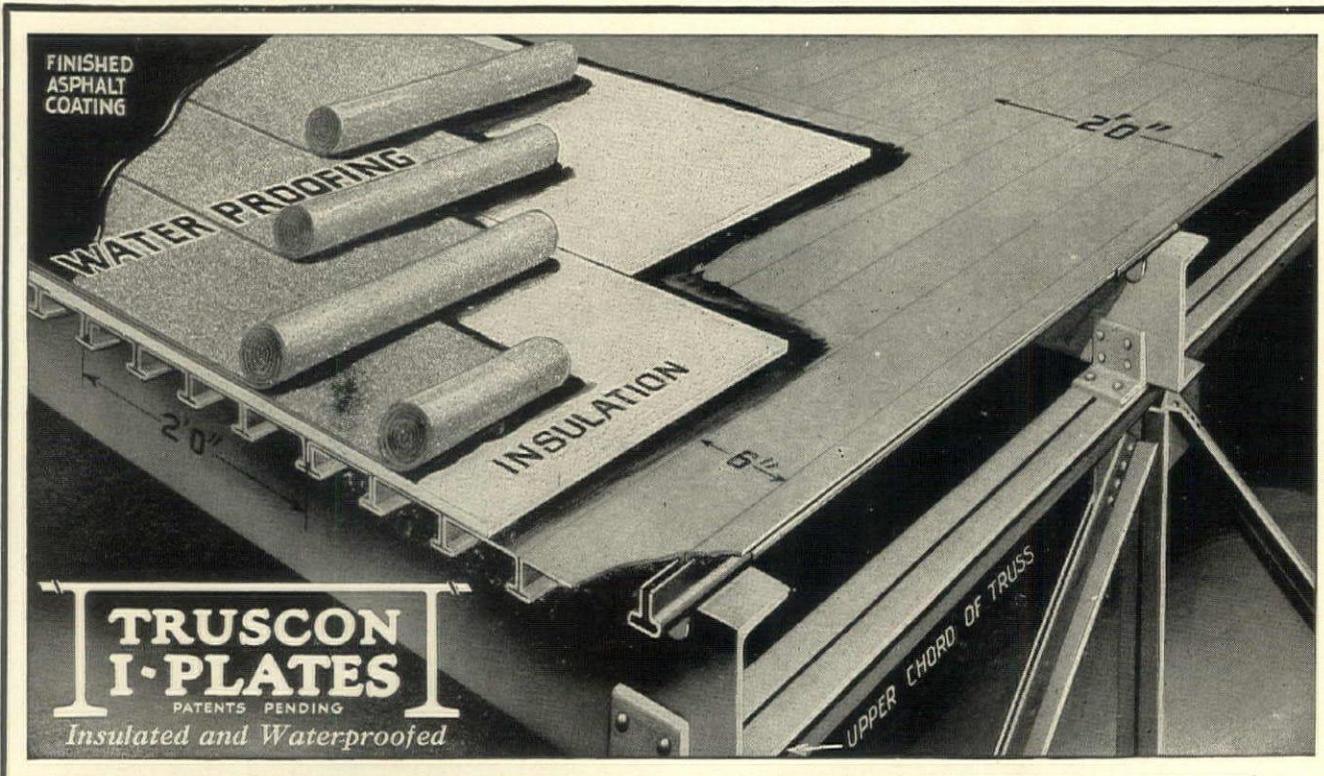
is a rich, lustrous, silver-platinum finish which will never tarnish. It is permanent—always bright—requires no polishing—not affected by acids, salt air or salt water. It will never corrode and requires wiping off only—the same as china and enameled ware.

SPEAKMAN CHROMIUM PLATE unquestionably adds beauty to any room.

*We shall be glad to mail you a booklet on SPEAKMAN CHROMIUM Plate, and our catalog of SPEAKMAN Showers and Fixtures made up for your files.*

SPEAKMAN COMPANY  
WILMINGTON, DELAWARE

## SPEAKMAN SHOWERS and FIXTURES



# STEELDECK ROOFS NOT OVER 5 lbs PER SQ. FOOT

Illustrated literature on request.

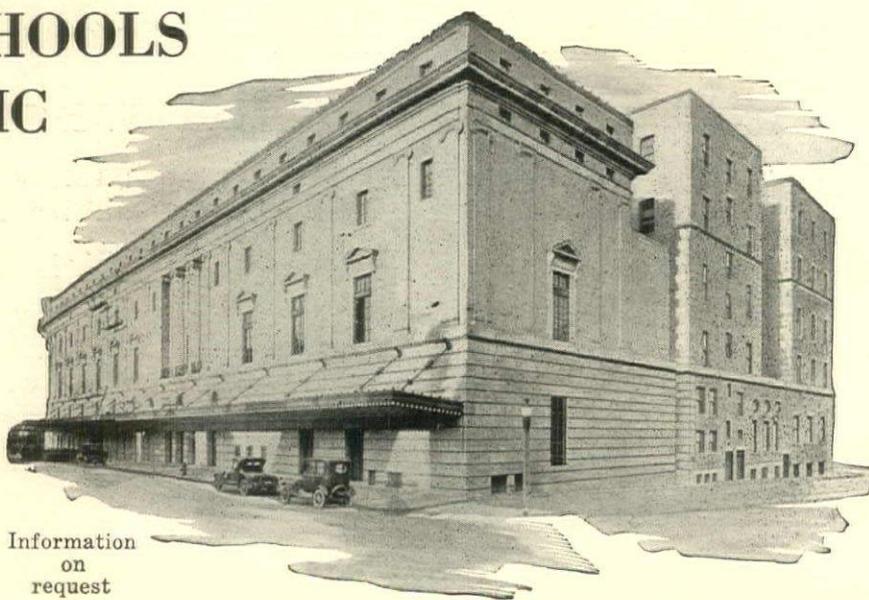
TRUSCON STEEL COMPANY, • YOUNGSTOWN, OHIO

*Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual*

# MODERN SCHOOLS OF MUSIC

are completely equip-  
ping their entire build-  
ings with

**HAMLINIZED  
SOUND  
PROOF  
DOORS  
and folding  
PARTITIONS**



Information  
on  
request

In this day of Modern Teaching, haphazard and make-shift buildings are giving way to schools and colleges that are built to meet the demand for concentrated study free from distraction.

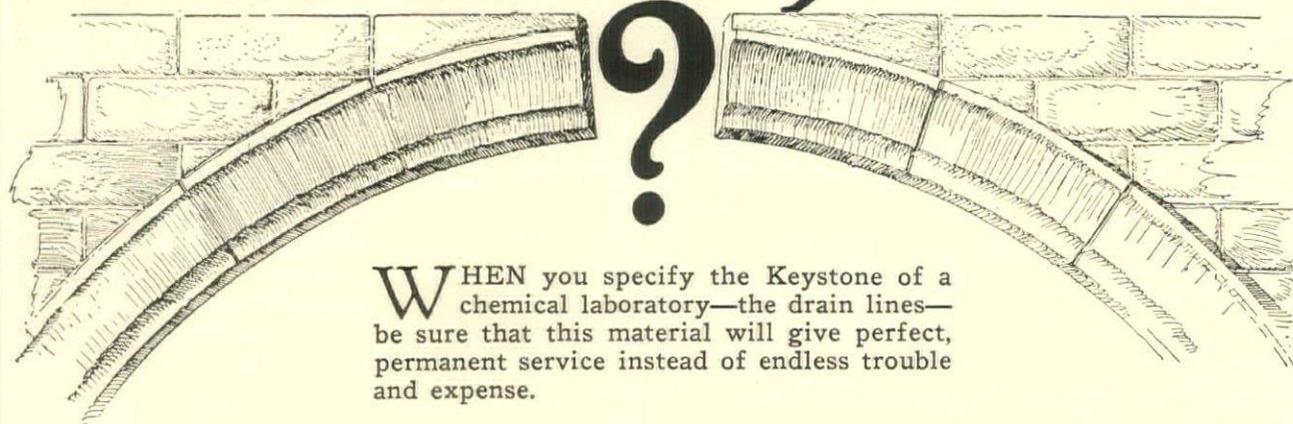
**THE EASTMAN SCHOOL OF MUSIC  
Rochester, New York**

Hamlinized Doors are used throughout this building, in all studios and class rooms.  
Gordon & Kaelber, Rochester, N. Y., Architects.  
McKim, Mead & White, New York City, Associate Architects.

**IRVING HAMLIN**

1502 Lincoln St. . . . . Evanston, Ill.

# What Keystone



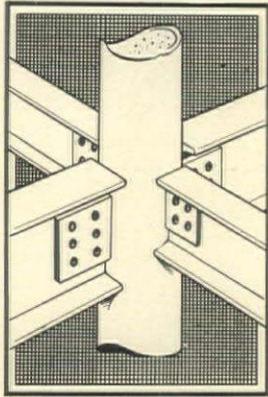
**W**HEN you specify the Keystone of a chemical laboratory—the drain lines—be sure that this material will give perfect, permanent service instead of endless trouble and expense.

Specify a material that does not depend upon a coating or lining for complete immunity from all acids. A material that will not warp, crack, sag or leak at the joints. A material that will pass all plumbing codes.

Then Duriron acid-proof drain pipe will be specified as it *alone* meets these requirements. In keeping the acid where it belongs, in the drain lines, Duriron guards against maintenance expense, marred finish and unsanitary conditions.

*Duriron is produced only by*  
**The DURIRON COMPANY**  
DAYTON · OHIO

*Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual*



## LALLY COLUMNS

are the  
**MOST EFFICIENT  
 AND COST LESS**

**R**OUND COLUMNS are known to be the most efficient and economical structural shape. Less metal is required to sustain a given load than that required for any other column shape made.

**I**MPROVED CONNECTIONS and splices make the NEW LALLY COLUMN simple in detail and fabrication. Difficulties formerly encountered in connecting beams to round columns have been solved.

**G**REATER UNSUPPORTED length is allowed by building codes for round columns than for any other shapes. Less metal and simple connections mean less cost.

*Details and Estimates  
 furnished upon request.*

Full Reference  
 Data in SWEETS,  
 pages A-556-7

LALLY  
 COLUMN HANDBOOK  
 sent upon request

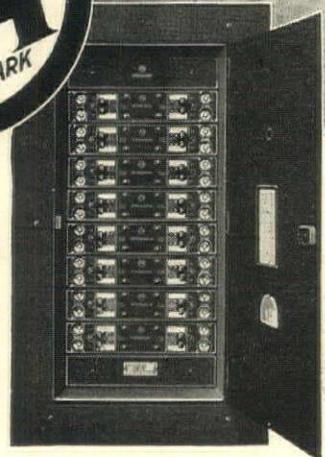
### LALLY COLUMN COMPANY

ERIE and ALBANY STREETS  
 CAMBRIDGE - - MASS.

4001 WENTWORTH AVE. 211-249 LOMBARDY ST.  
 CHICAGO - - ILL. BROOKLYN - N.Y.



**Panelboards  
 HERE  
 too!**



**W**HY wonder that so many fine buildings are equipped with FA Panelboards. FA Panelboards give more for the money invested.

FA Panelboards are built for long service. Every FA part is made oversize and tested. The FA Panelboard is standardized throughout and is constructed completely in our factory. There is no "on the job" work about an FA Panelboard, except the installation and that at minimum labor.

*The new FA catalog is ready. We also furnish estimates without cost.*

**Frank Adam**  
 ELECTRIC COMPANY  
 ST. LOUIS

District Offices

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| Atlanta, Ga.    | Chicago, Ill.    | Los Angeles, Cal.  | Pittsburgh, Pa.     |
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| Brooklyn, N. Y. | Denver, Colo.    | New Orleans, La.   | San Francisco, Cal. |
| Buffalo, N. Y.  | Detroit, Mich.   | Omaha, Neb.        | Winnipeg, Canada    |
|                 | Kansas City, Mo. | Philadelphia, Pa.  |                     |

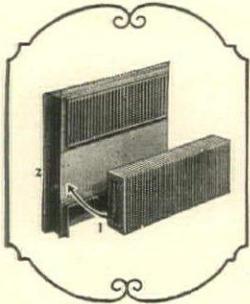


Living Room in the W. E. Hyde Residence, Memphis, Tennessee

## No space wasting radiators here...

for in the modern home, exposed radiation is obsolete. Nothing must interfere with refinement of interior arrangement and decorations.

Built right into any standard 4" wall or partition—the Herman Nelson Invisible Radiator occupies no floor or wall space. It is not camouflaged—but concealed. Only the attractive outlet grille is visible.



Radiator (1) comes installed in a steel case (2) more substantial than the wall itself. The complete unit is ready to install in any 4" wall or partition.

Once installed, the Herman Nelson Radiator is out of sight and out of mind. Indestructible leak-proof and trouble-proof—it is the last word in modern heating.

Architect, heating engineer, contractor, and everyone interested in new home or modern building construction, should know the facts about the Herman Nelson Invisible Radiator.

THE HERMAN NELSON CORPORATION,  
MOLINE, ILL.

Builders of Successful Heating and Ventilating Equipment for 20 Years



FREE This interesting book of facts on The Herman Nelson Invisible Radiator.

THE HERMAN NELSON CORPORATION  
Moline, Illinois

Please send me your illustrated book No. 34. I am planning to build a house containing \_\_\_\_\_ rooms.

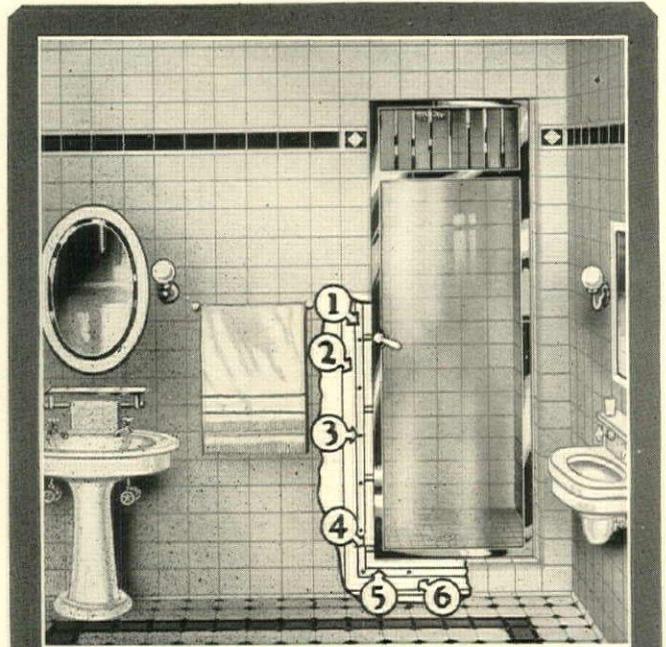
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Address .....

- |               |                  |                |
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| BOSTON        | INDIANAPOLIS     | EMPIRIA        |
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| UTICA         | SAGINAW          | SALT LAKE CITY |
| SYRACUSE      | DETROIT          | SPOKANE        |
| BUFFALO       | CLEVELAND        | PORTLAND       |
| PHILADELPHIA  | COLUMBUS         | SEATTLE        |
| SCRANTON      | CINCINNATI       | VANCOUVER      |
| PITTSBURGH    | TOLEDO           | TORONTO        |
|               | WINNIPEG, MAN.   |                |

# HERMAN NELSON Invisible RADIATOR

TRADE MARK



- 1—Angle Steel Buck
- 2—Wood studding
- 3—Nails to hold buck
- 4—Ferrules for screws for jambs
- 5—Wood cross brace

## The ZAHNER Shower Bath Door

FORTUNATE indeed, is the home that has a built-in shower stall, enclosed and beautified with the dignified ZAHNER Shower Bath Door. During the hot weather months when the entire family spend a major part of their time in out-door sports and recreation, the shower bath brings an added source of satisfaction in the refreshing luxury and comfort that it provides.

The ZAHNER Shower Bath Door is the result of a universal demand. It takes the place of the impractical and unsanitary canvas or rubber curtain that cracked, shrank and kept out the light as well as being unsightly. Because it is practical and modern, your client will appreciate your thoughtfulness in specifying The ZAHNER Shower Bath Door.

The ZAHNER Shower Bath Door is handsomely fashioned of extruded bronze, silver nickel plated, making it rust and corrosion proof. There are no wood cores to warp. All joints are welded. All Doors are equipped with the highest quality, clear polished glass panels, set in rubber, with condensation gutter and adjustable gasket across bottom.

With The ZAHNER Shower Bath Door is furnished a patented Steel Buck (see key above for detailed explanation of the Steel Buck feature) made of 1 1/2 inch steel angle, braced and welded solid. Fastened securely to the studding before tile is set, it becomes a part of the wall. Result—the Buck feature insures a permanent, proper size opening to accept door—that will never warp or shrink.

A full length piano hinge is used to hang door to angle Steel Buck. Anyone with a screwdriver can permanently hang it in 15 minutes. The ZAHNER Door will render lifetime service and satisfaction.

ZAHNER MANUFACTURING CO.

Dept., A-620

KANSAS CITY, MO.

Plumbers ~ Supply Houses  
Tile Companies ~ Gen. Contractors  
Write for Dealer Prices & Literature

# KIMBALL

## STRAIGHT LINE DRIVE ELEVATORS



MEDICAL ARTS--SALT LAKE  
Architects--Cannon & Petzer

### THE BUILDINGS THAT MAKE A CITY

Ninety-five per cent of the buildings in our cities range from two to ten stories in height. The forty-five story to 110 story buildings house only a small portion of the prosperous business life of the nation. The so-called **smaller buildings** housing the great American business man must have safe and dependable and economical elevator service.

### THE ELEVATORS THAT MAKE A BUILDING

A ten-story building without elevators would be a total loss as an investment--a building with poor to average elevator service would be but little better. The cautious investor and far-seeing builders of the two to ten-story building are installing Kimball Straight Line Drive Elevators and insuring their buildings against dissatisfied tenants and loss of return on empty space.

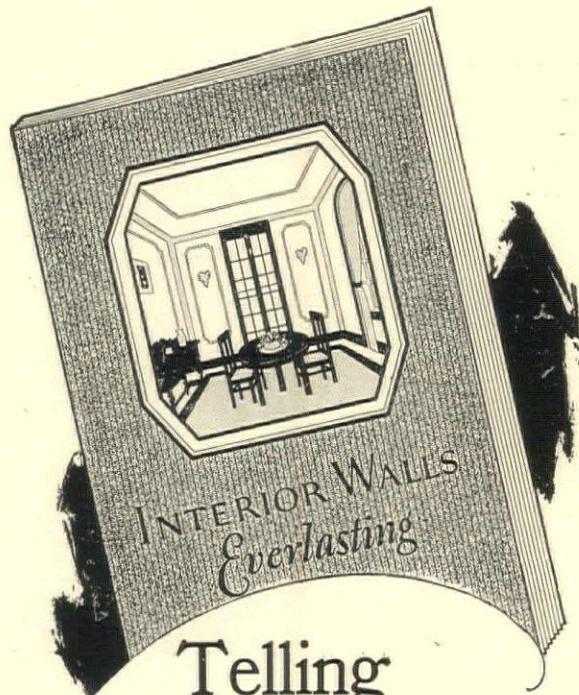
For permanent, economical elevator satisfaction use Kimball Straight Line Drive Elevators in your building. Write our nearest office for complete data and prices.

*A Kimball Elevator for Every Requirement*



1119-27 Ninth Street Council Bluffs, Iowa

*Elevator Builders for 45 Years*



## Telling Home Builders Important Facts About Interior Walls

**T**HERE was a time when the interior walls of the home were looked upon as nothing more than lath and plaster—a method of dividing one room from another.

Today, the attainment of beauty, permanency, and lasting satisfaction in all interior walls is a significant development in keeping with the progress of better home building.

To further stimulate this increasing interest, we have prepared an illustrated book entitled "Interior Walls Everlasting"—pictured above. To obtain its widest possible distribution to prospective home builders, we began advertising it in the June magazines devoted to the home.

This is a booklet that will interest every home lover who contemplates building or refinishing. It may already be in the hands of some of your clients. Would you like to have a copy?

### Best Bros. Keene's Cement Co.

1060 W. 2nd Ave., Medicine Lodge, Kans.

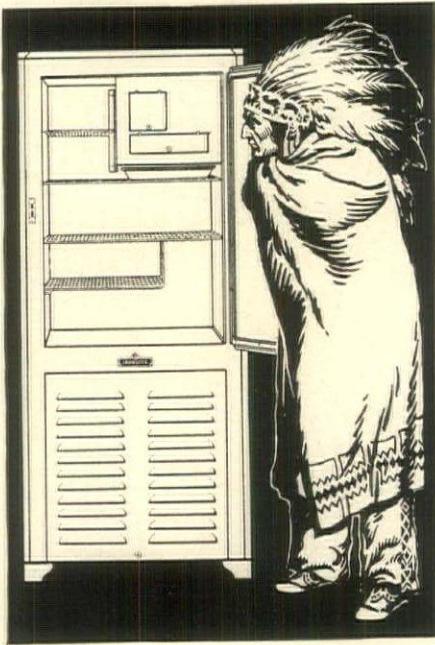


BEST BROS. KEENE'S CEMENT CO.  
1060 W. 2nd Ave., Medicine Lodge, Kansas

Please send me, free, a copy of your illustrated book, "Interior Walls Everlasting"

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_

A new  
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—and



*quiet* as ever!

Quietness of operation is one of the big features of all Iroquois Electric Refrigerators—and it is particularly important in apartment house installations—there must be no noise to annoy the neighboring tenants. This new apartment type Iroquois is as *quiet* as the gentle whispering of the woodland pines—and it is ideal not only for apartments, but for homes with four or five persons in the family.

Imagine a beautiful all-metal cabinet—white enamel inside and outside—that is only 61" high, 22½" deep, 26¼" wide, and yet has as much as 9½ square feet of shelf space, and 5½ cubic feet food storage capacity—both *unusually large for an apartment type*.

But that isn't all! It also has greater ice-cube capacity than any other machine of its size—110 cubes, or more than 9 pounds of ice—and in addition an extra tray to store ice cubes.

This new *quiet* Iroquois is thoroughly efficient—it produces cold dry air like the crisp dry cold of a frosty night—and it is so simple in construction that it takes less current to operate, and *requires a minimum of servicing*. And you need have no hesitancy in specifying the *quiet* Iroquois, for it is backed by a \$40,000,000 corporation engaged in business for a half-century.

Upon request we will furnish you with the complete details of this new *quiet* Iroquois. We will also gladly tell you about the eight other types of the *quiet* Iroquois—white or gray porcelain enamel cabinets—for home use.

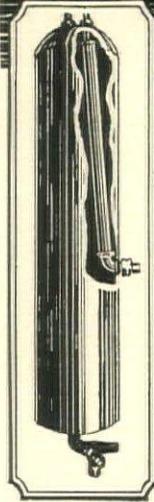
THE IROQUOIS ELECTRIC  
REFRIGERATION COMPANY

1600 Arch Street, Philadelphia

Associate of The Barber Asphalt Company

**IROQUOIS**  
REGISTERED  
*The QUIET electric*  
**REFRIGERATION**

-And then  
science awoke!



"We are a nation of wants," says a writer, "and year by year our wants become more exacting."

Twenty years, ten years, even five years ago, we were willing to wait for our hot water while our now obsolete equipment heated the water in the boiler to a temperature suitable to use. Today we demand hot water at the instant we want it, and our wants in this regard are fully satisfied through a remarkable invention—the Dahlquist Aquatherm. This device, using an entirely new principle of water circulation and operating with gas, coal, electricity or kerosene oil, provides instantaneous hot water at an equipment cost of no more than for the old-fashioned, slow operating, and now obsolete combinations.

Thus Science has produced another epoch making improvement for the comfort and convenience of mankind.

#### GUARANTEED FOR 25 YEARS

No other manufacturer expresses his written confidence in his produce in such positive terms. Only through the use of the finest Lake copper combined with perfect design and workmanship, could these boilers be guaranteed for twenty-five years—a lifetime of troublefree hot water service.

Complete literature explaining in detail the scientific principles of the Aquatherm and giving full information regarding sizes and types of Dahlquist Combinations, available upon request.

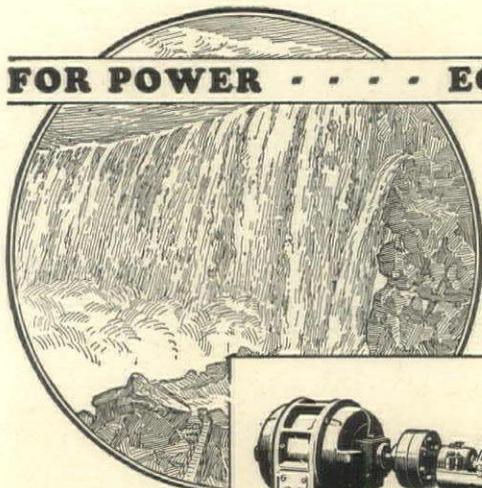
"A Nation's Hot Water Service"

**Dahlquist Manufacturing Co.**

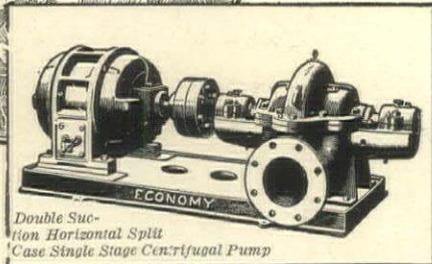
52 West Third Street,

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**FOR POWER . . . ECONOMY**



The average flow of water over the U. S. and Canadian Falls of Niagara is estimated at 222,400 cubic feet per second, a potential horse power of approximately 4,900,000.



Double Suction Horizontal Split Case Single Stage Centrifugal Pump

**Efficient? More than that — dependable!**

THE high efficiency of Economy Pumps is important only because it is coupled with mechanical dependability. Simplified design, sturdy in assembly and sturdy in every part, insures the Economy user of satisfactory pump-service.

But important as is the advanced design of Economy Pumps, true economy is impossible without correct application. That is why Economy engineers who are constantly in touch with unusual pumping problems are often able to assist your engineers in securing large savings.

High total efficiency and the resulting economy require both high pump efficiency and correct application.

Whatever the peculiar conditions under which your pump must operate they are similar to others we have met. Let us work with you for a satisfactory solution of your problem.

**Economy Double Suction Horizontal Split Case Single Stage Centrifugal Pump**

A recent improvement in design, embodying the newest hydraulic development, enable us to feature in this pump a new high efficiency. It is the all around pump for water supply, brine circulation, hot water circulation, etc., thoroughly conventional in design but with many refinements which add to its life and the satisfaction that it gives.

**Outstanding Features**

1. High efficiencies.
2. Sturdy mechanical design.
3. Carefully designed bearings with extra large oil wells.
4. Made in large number of cases so that an efficient pump can be furnished for any service.
5. Wearing rings flanged in both upper and lower half of case. No pins used.

Ask for Bulletin No. 404 describing this type of pump in detail. Write us.

**Economy Pumping Machinery Company**  
3431 West 48th Place, Chicago

Representatives in Principal Cities—Telephone & address under Economy Pumping Machinery Co.

**Economy Pumps**

Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual



Security Storage & Transfer Co. Bldg., C. A. Houghtaling, Architect, Portland, Oregon

**Whitest of Whites**

This building is already a landmark in Portland on account of the brilliant whiteness combined with soft texture that distinguishes

Cabot's

**DOUBLE-WHITE**

This remarkable job is done with only two coats. Two coats of Double-White cover the surface as completely as three coats of lead paint. Double-White is a Cabot Colloidal Compound, with pigment so much finer than common ground paint that it penetrates into the pores of wood, concrete or brick and has such a hold that it will not crack or peel off. Fine, smooth texture; no brush marks; dries flat with no shiny effect.

**Cabot's Old Virginia White**

is the other Colloidal White for shingles, and also for stucco or brickwork where the "stain effect" is desired to preserve the natural texture of the material employed. Old Virginia White is the white of

**Cabot's Waterproof Collopakes**

which are made medium-bodied in a great variety of soft pastel-like shades for decorating and waterproofing stucco, brick, stone and woodwork, and heavy-bodied for blinds, shutters, doors, trim, etc.

**Cabot's Creosote Stains**

The Original and Standard Creosote Wood-preserving Stains for Shingles and other Rough Woodwork.

Samples, color-cards and full information sent on request

*Samuel Cabot*

Incorporated

Manufacturing Chemists

141 Milk Street Boston, Mass.

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Cabot's Quilt for Heat-Insulation and Sound-Deadening, Mortar, Colors, Etc.



NEW YORK TELEPHONE CO.,  
Kingsbridge Avenue, New York

McKENZIE, VOORHEES & GMLIN,  
Architects

*Sedgwick Sidewalk Elevator Installed*

## SIDEWALK ELEVATORS FOR COMMERCIAL BUILDINGS

**I**N commercial buildings Sedgwick Sidewalk Elevators are used extensively for removing ashes, transporting merchandise and similar purposes.

Loads are lowered by gravity, the speed of descent being controlled by a powerful, self-locking band brake.

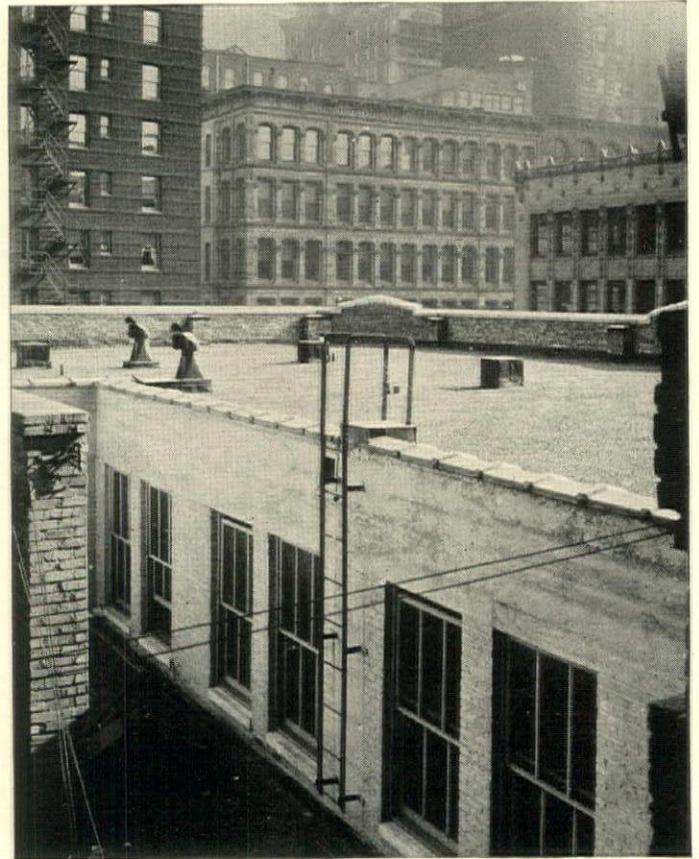
By using spur gearing of ratio suitable to service requirements, loads may be raised with a reasonable amount of effort. Standard outfits are built in capacities ranging from 500 to 2500 pounds, while special outfits to meet unusual conditions are designed where necessary.

THE SEDGWICK ARCHITECTS SERVICE DEPARTMENT is maintained to assist you in the proper selection and writing of specifications for Hand Power Dumb Waiter and Elevator equipment for all purposes.

*Write for New Catalog*

**SEDGWICK MACHINE WORKS**  
159 West 15th Street New York

Manufacturers of "The Invalid Elevator,"  
Freight Elevators, Fuel Lifts, Trunk Lifts,  
Ash Hoists, Gravity Drops, etc.



# Clay Wall Cop- ing should top every wall that is intended to be permanent

CLAY PRODUCTS ASSOCIATION  
Chamber of Commerce Building • CHICAGO

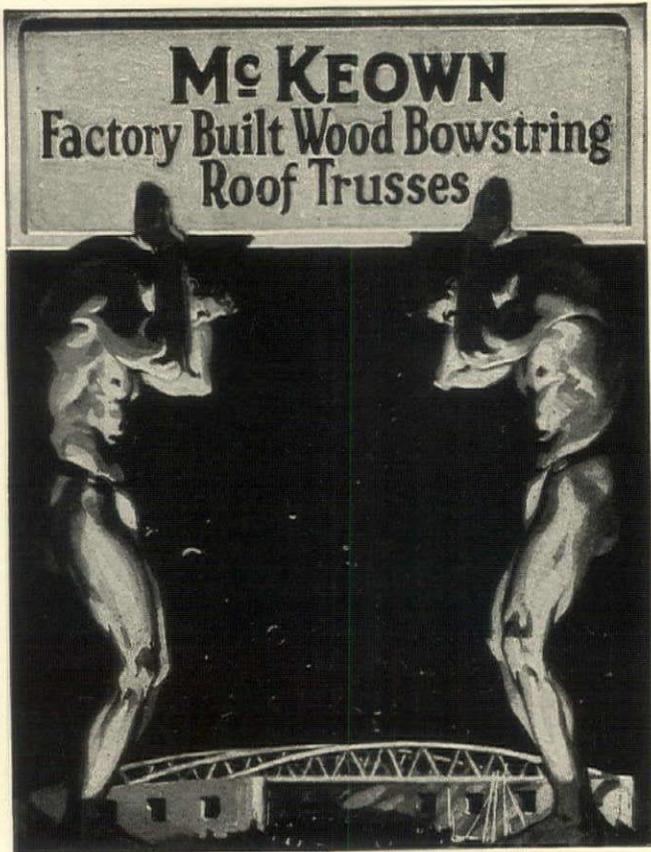
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*Send for Literature*

**VITRIFIED** *Salt Glazed* **CLAY**  
**Wall Coping**

AA7-20-Gray

*Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual*



## SAVE MONEY

Completely fabricated before shipment.  
 Shipped knock-down in easily handled sections.  
 Glued upper chord makes section solid.  
 Bolt holes bored and straps and splice plates bolted.  
 Detailed assembling instructions make easy erection.  
 Temporary scaffolds may be used if hoist is not available.

*Satisfaction Assured*

### McKeown Bros. Company

112 West Adams Street  
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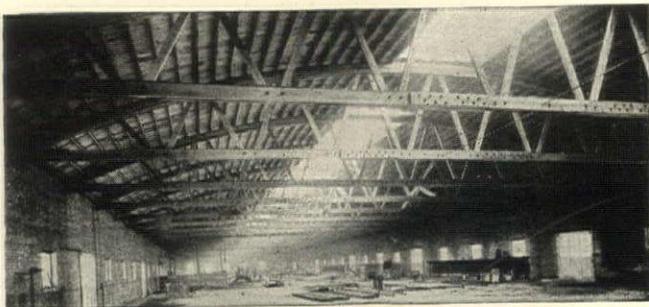
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Three Standard Types of Wood Roof Trusses  
 "Bowstring Trusses" "Lattis-Trusses"  
 "Factory-Built Trusses"

(Factory-Built Trusses have glued, nailed and bolted upper chords)

#### Recent Purchasers of Factory-Built Trusses:

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Immediate delivery of materials is vital to the proper carrying out of the architect's schedule.

The eighty-two plants manufacturing Cinder Concrete Building Units under Straub and Bo Patents maintain reserve stocks that insure these prompt deliveries up to any required amount.

And equally important, a large stock means that only carefully matured materials are permitted to be shipped from these plants.

## Thoroughly Matured Cinder Concrete Building Units

The nature of Cinder Concrete makes desirable an aging of the product before it is used in wall construction. In Straub and Bo plants, the large stock is protected by the proper conditions of temperature and moisture during its early life and is thoroughly seasoned before delivery to the job.

The standard processes of quantity production and national organization under which these plants operate make possible this insurance of satisfactory material as well as immediate delivery.

*82 Licensed and Subsidiary Plants throughout the Country*

### CINDER CONCRETE BUILDING UNITS

*Manufactured under Straub and Bo Patents  
 Address all inquiries to Department M*

**NATIONAL BUILDING UNITS CORP.**  
**1600 ARCH STREET-PHILADELPHIA**

**FERALUN**  
*Anti-Slip Treads*

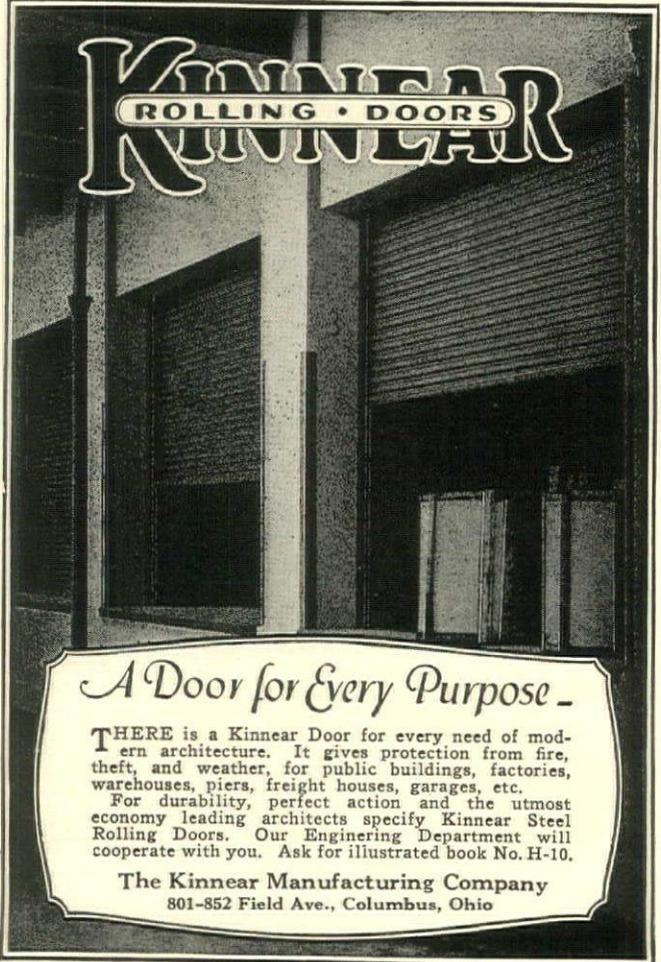


TWO REPUBLICS LIFE BUILDING  
EL PASO, TEXAS  
Trost & Trost, Architects

Feralun thresholds safeguard elevator doorways. Accidents due to slipping are eliminated at minimum cost.

**AMERICAN ABRASIVE METALS CO.**  
50 Church Street, New York

**KINNEAR**  
ROLLING DOORS  
**KINNEAR**



*A Door for Every Purpose -*

THERE is a Kinnear Door for every need of modern architecture. It gives protection from fire, theft, and weather, for public buildings, factories, warehouses, piers, freight houses, garages, etc. For durability, perfect action and the utmost economy leading architects specify Kinnear Steel Rolling Doors. Our Engineering Department will cooperate with you. Ask for illustrated book No. H-10.

The Kinnear Manufacturing Company  
801-852 Field Ave., Columbus, Ohio



*Beautiful—  
—Enduring  
—Economical*

Long-Bell Oak Flooring is used in homes from coast to coast.

THE LONG-BELL LUMBER CO.  
R. A. Long Bldg., Kansas City, Mo.  
*Lumbermen since 1875*

**Long-Bell**  
OAK FLOORING

**SIGNET**  
Back Water Trap  
**FLOOR DRAINS**



Pat'd Dec. 3, 1914

All-metal construction—no rubber nor composition gaskets to wear out—no floating balls. Trap valve has metal-on-metal seat. Opens by positive pressure—closes by gravity. Leakage impossible.

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**Crampton-Farley Brass Co. Kansas City, Mo.**

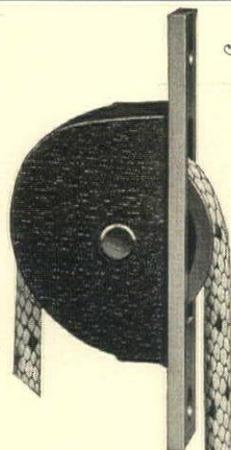
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Details in Sweet's Catalog.*



## EXPERIENCE

It is by experience that we learn. Our long experience in manufacturing rugs and carpets for countless public places in all parts of the country is of inestimable value to every purchaser.

**HARDWICK & MAGEE CO.**  
650 W. LEHIGH AVE. - PHILADELPHIA



### A Specification

Chart showing at a glance the correct sizes of cords and pulleys to use with different sizes of windows, will be furnished for the asking—also samples.

TRADE MARK  
REG. U. S. PAT. OFF.

## SAMSON SPOT

Sash Cord insures smooth, quiet, and continuous operation of double hung sash.

The Colored Spots are a trade mark which identifies the durable, dependable solid braided cotton cord for you anywhere and protects your specifications.

### SAMSON CORDAGE WORKS

88 BROAD STREET BOSTON, MASS.



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*Mineral Wool, being fibrous and inelastic, is one of the best sound-proof materials available.*

*As such it prevents the passage of the ever-present noises from one apartment to another—thus insuring the tenants freedom from disturbances.*

Mineral Wool also:

- 2—Insulates against heat and cold
- 3—Is a fire resistant
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**U.S. MINERAL WOOL CO**  
280 MADISON AVE., NEW YORK CITY

Western Connection  
**COLUMBIA MINERAL WOOL CO.**  
1504 East 53rd Street  
Chicago, Ill.

## APPROVED — BY EVERY USER

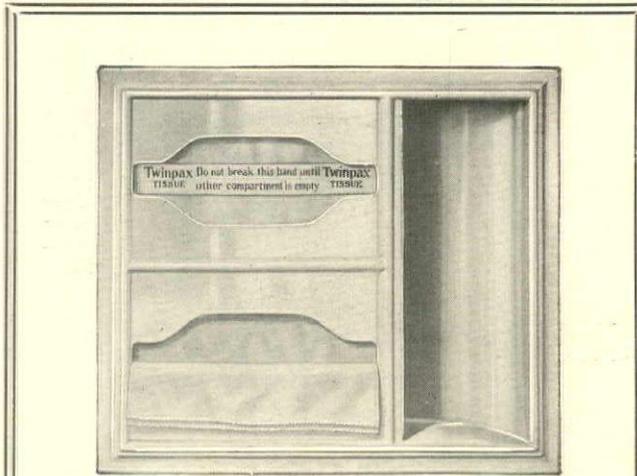
*Dayton-Dowd Centrifugal Pumps prove their reputation for economy and correct operation.*

A long list of satisfied users containing such names as: U. S. Navy and Army, New York Central and Union Pacific Railways, Swift & Co., Chicago Tribune Bldg., Wrigley Bldg., Central Illinois Light Co., Bethlehem Steel Co., Ford Motors, and General Electric Co.—this list is inspiring even to a company as confident of their product as is the Dayton-Dowd Company.

The pumps which have gained this approval are the result of intensive study, testing and experimenting in design and materials. Complete co-operation between men who are specialists each in his own department, ultra-modern equipment and exacting tests and specifications have built a line of industrial pumps recognized as standard by all authorities.

*For a thorough analysis of your pumping problems let a Dayton-Dowd man work with you.*

**DAYTON DOWD COMPANY**  
QUINCY ILLINOIS



**Twinpax Fixtures — Never Empty**

There is always a reserve package of toilet tissue. When the paper in one compartment is exhausted that in the other is available. Made in any color of tile. Attractive and convenient. Blue prints, etc., gladly sent on request.

**NATIONAL PAPER PRODUCTS CO.**

Architectural Service Division Carthage, N. Y.

*Ask for A.I.A. filing catalog*

# TACO SEMI-INDIRECT

**WITH VERTICAL TANK**

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**For Use with Oil Burning Equipment**

The design of the TACO SEMI-INDIRECT makes it especially adaptable for successful use with vertical storage tanks. As this heater is vertical, circulation to the tank starts very close to the floor and a positive circulation is established between the heater and the tank.

Tanks will be heated down to a level with the bottom of the heater.

**THERMAL APPLIANCE CO.**  
 342 Madison Ave. :: New York City



The Ordinary Way



The E-Z Way

--for all types of radiators including all makes of new tube types.

*May we send full information?*

**HEALY-RUFF CO.**

787 Hampden Ave.,

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## Screwless Plates

**M**ADE of genuine Bakelite. Clapsed in position through pressure of the fingers. Have no metal fastening screws—therefore surface of the plates is completely insulated from the switch or outlet mechanism.

*Write for complete information.*

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 NEW YORK CHICAGO SAN FRANCISCO

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*Indispensable  
in the Drafting Room*

HIGGINS' WHITE WATERPROOF INK is the most effective medium for correcting or working upon blue or brown prints. On dark backgrounds its opaque quality may always be depended upon to lay a sharp, white line.

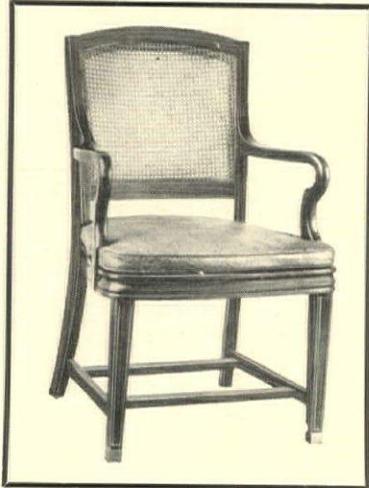
Higgins' White Drawing Ink is guaranteed against hardening or coagulation as long as it is in the bottle.

CHAS. M. HIGGINS & CO.  
271 Ninth Street, Brooklyn, N. Y.



**White  
DRAWING  
INK**

## BUSINESS CHAIRS



ARCHITECTURALLY designed business rooms demand chairs harmonious in conception to complete them.

The B. L. Marble Chair Company  
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New York City, 101 Park Ave. Telephone, Caledonia 7026



Use

### DIXON'S SILICA- GRAPHITE PAINT

Because of its pigment, flake silica-graphite which has no equal as a paint pigment, Dixon's Silica-Graphite Paint lasts longer and lowers paint maintenance costs.

This pigment is inert, does not combine with the vehicle and is not affected by acids, alkalies, gases, etc. Because of its flake formation, it expands and contracts and will not crack, peel or flake off. Due to its oily nature it has no equal in keeping moisture away from the under-surfaces.

Write for long service records and Booklet 14 B.

JOSEPH DIXON CRUCIBLE COMPANY  
Jersey City New Jersey  
1827 ONE HUNDREDTH ANNIVERSARY 1927




# American Wire Rope

AND  
AERIAL WIRE  
ROPE

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Send for Illustrated Catalogue

American Steel & Wire  
Company  
CHICAGO - NEW YORK

We show complete illustrations and details in Sweet's Architectural Manual  
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**RATES for Classified Advertisements**  
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 239 West 39th Street, New York

\$2 for 25 words or less per insertion and 6 cents for each additional word. Where the answers are to be addressed in care of The American Architect seven (7) words should be allowed for the box number. All advertisements must be accompanied by full remittance. Publication dates 5th and 20th of month. Copy received until 12 m. on 1st and 15th of month preceding publication date.

**FOR RENT**

VERY light office and draftsroom. Call 156 E. 42nd St., Room 409. Rent \$60 per month. Telephone Caledonia 1217. (2525)

**Specification Service**

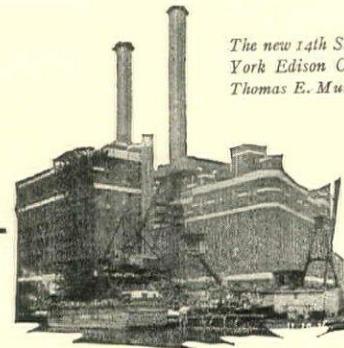
If you do not find specifications of any particular product, in which you are interested, in the current edition of THE AMERICAN ARCHITECT SPECIFICATION MANUAL we will be glad to supply them on request.

Our Specification Service Department is always at the disposal of our readers and our fifty years of service to the profession and our contact with producers have given us sources of information that are always available.

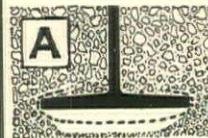
*Write us when you think we can help.*

**THE AMERICAN ARCHITECT**

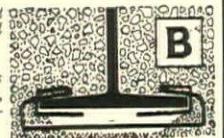
239 West 39th Street  
 New York



The new 14th Street plant of the New York Edison Company, New York. Thomas E. Murray, Inc., Engineers.



(Left) An ordinary soffit reinforcement offers no real protection.



(Right) S-M-C extends well out into the corners, securely anchoring the concrete to the steel.

**S-M-C for All Large Jobs**

THE use of S-M-C for all large jobs is standard practice among architects and engineers. S-M-C is easy to apply. It automatically takes its proper place both below and beyond the beam flange, well "clear" of the steel, allowing space for the concrete to flow freely. S-M-C gives real protection. It anchors the concrete coating to the steel, making it proof against heat, vibration, knocks and cracks. On all first class work, specify Standardized Metal Caging (S-M-C) and make sure you get it.

**MITCHELL-TAPPEN COMPANY**  
 15 JOHN STREET NEW YORK  
*Representatives in Principal Cities*

**BESSLER**  
 DISAPPEARING  
**STAIRWAYS**

PEOPLE are moving out to their shore cottages again,—cottages always too small to accommodate the week end parties.

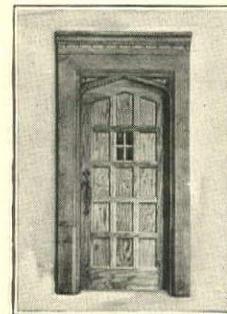
**An Attic or a Loft**

can be made conveniently usable and most easily accessible with a Bessler Disappearing Stairway without taking up space or disturbing the arrangement of the living room below. Thus the whole house is made more roomy and enjoyable.



*Particulars on request*

**The Bessler Disappearing Stairway Co.**  
 Akron - - - Ohio



One  
 of Many

**New Doors and Windows by Curtis**

Seven years ago the Curtis Companies made one of the most important contributions to small house architecture that had been made since the Age of Handicraft.

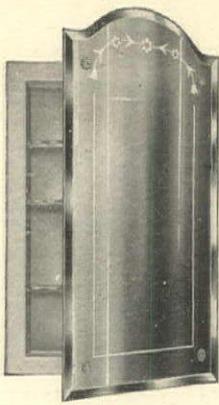
They offered architects a complete line of standardized exterior and interior woodwork of true architectural character. Today, the Curtis Companies announce a greatly enlarged and improved line of Curtis Woodwork, including the entrance shown above. These designs have been done under the direction of Frederick Lee Ackerman, New York, with the constructive criticism and co-operation of a score of the country's leading architects.

These new items are now being stocked by Curtis dealers throughout the country. If you cannot yet see them locally, write on your letterhead for literature and complete information.

**1866**  
**CURTIS**  
**WOODWORK**

CURTIS COMPANIES SERVICE BUREAU  
 674 CURTIS BUILDING, CLINTON, IOWA

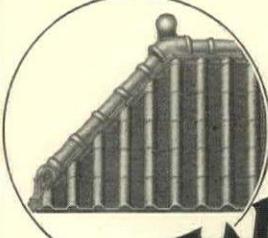
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*and MIRRORS*  
*Snow-White Steel*



**VENETIAN STYLE**

**A** De Luxe Cabinet, entirely concealed by the beautiful etched mirror. The last word in bath room furnishing. Made in three sizes. See Sweet's Index; or write for illustrated booklet. **HESS WARMING & VENTILATING CO.** Makers of Hess Welded Steel Furnaces 1213 S. Western Avenue, Chicago.

*The Most Beautiful Roof in the World!*



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**METAL Spanish TILE**

It is wonderful what a remarkable transformation takes place when an "Edwards" Metal roof is properly applied to a house—all of the charm of the old Spanish Terra Cotta Roofing Tile is preserved, even to the color.

The house takes on a new lease of life. It seems a better place to live in. An Edwards Metal or Tile Roof is a real commercial asset and will bring a better return in rent or sale.

Edwards Metal Roofings made to have the appearance of wood shingles, tile, slate, or any other roofing effect, and none of these fine artistic effects will cost any more than a plain, commonplace roof.

All Edwards Metal Roofing is easy to lay—no big expense for skilled labor—storms and winds will not wrench it loose or make it a rattle-trap. It is lightning-proof and fireproof—Reduces Insurance Rates.

When an Edwards Roof is laid, it is there to stay.

*Send for our literature—it explains*

**THE EDWARDS MFG. CO.**  
*The World's Largest Manufacturers of Metal Roofing, Metal Ceilings, Metal Garages, Portable Buildings, Rolling Steel Doors, etc.*  
319-349 Eggleston Ave., Cincinnati, O.

**Examine this "Close-up" of Sheldon's "Waveline" Roof**



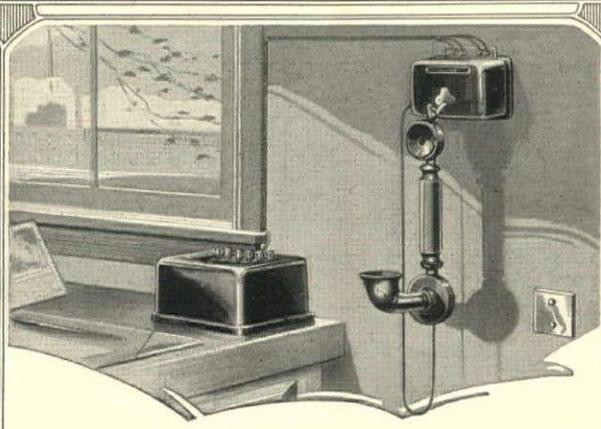
Last month we showed you a complete Sheldon "Waveline" roof. Here, now, is a portion of that roof, as seen from near by. From whatever distance this roof is viewed, it conveys an impression of quaint, winning, "regular irregularity," with the added beauty,

not brought out by the illustration, of the inimitable effects of Sheldon Semi-Weathering Green and Gray Slate. Please ask us for photographic reproductions, instructions for applying this strikingly individual roof, or any other information you may desire.

**F. C. SHELDON SLATE COMPANY**

General Offices, Granville, N. Y.

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|---|---|-------------------------------------|
| St. Paul, Minn.<br>364 Rice St.           | New York City<br>101 Park Ave., Room 514  | Cincinnati, O.<br>35 Poinciana Apt. |
| Detroit, Mich.<br>115 Francis Palms Bldg. | Columbia, S. C.<br>17 Carolina Bank Bldg. |                                     |



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The Stromberg-Carlson Inter-Comm-Phone System is satisfying the service demands of offices, factories, public buildings and large residences where simultaneous conversations are necessary but where the volume of traffic is not large enough for a switch-board system and a paid operator.

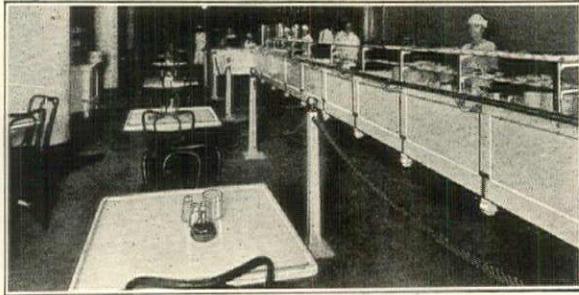
Easy to operate, it saves everybody's time, cuts down useless running around, speeds production and increases efficiency.

Made by a firm with more than thirty years experience in the making of voice transmission and voice reception apparatus.

*Write for literature describing Stromberg-Carlson Telephone and Radio apparatus and trade discounts.*

**Stromberg-Carlson Telephone Mfg. Co.**  
1060 University Ave., Rochester, New York

Stromberg-Carlson



**EVERYTHING  
FOR THE PREPARATION, COOKING  
AND SERVING OF FOOD**

**A PER-  
SONAL  
MESSAGE**

*(W. F. Dougherty, Jr., President, speaking)*

"Every successful business owes its Prosperity to the Quality and Variety of SERVICE. This organization is no exception, and so well have

we looked after the interests of our customers that the name DOUGHERTY is known for Reliability from Maine to California and from Canada to Florida."



**W. F. DOUGHERTY & SONS**  
Incorporated  
1009 ARCH STREET, PHILADELPHIA, PA.  
Branch: 914 Atlantic Ave., Atlantic City, N. J.



USE the best possible paint on new buildings. The film that lies nearest the lumber is the key to satisfactory painting in the future.

The first paint applied should be Carter White Lead and pure linseed oil, colored to suit. Then the bogey of paint troubles will be forever banished for your client—provided he always uses as good paint as was originally specified.

The "Carter" label has been found on "the best in paint" for forty years. Be sure it's on the white lead you buy.

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*Send for Details GX 8 and 9*

**CUTLER MAIL CHUTE CO.**  
GENERAL OFFICES AND FACTORY  
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Improved Steam Pipe Covering**

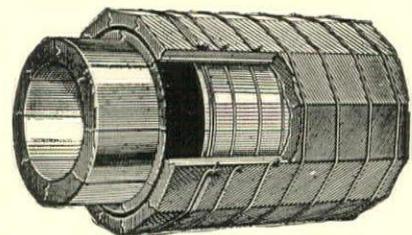
For more than 70 years Wyckoff Products have been recognized and respected wherever wood pipe and covering for steam pipe is used.

Wyckoff engineering is still ahead of the times in these fields and Wyckoff methods of manufacture more than keep pace with the progress of production.

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**A. WYCKOFF & SON CO., Elmira, N. Y.**

Atlanta, Ga.—H. H. White, 1503 4th Nat'l Bank Bldg.



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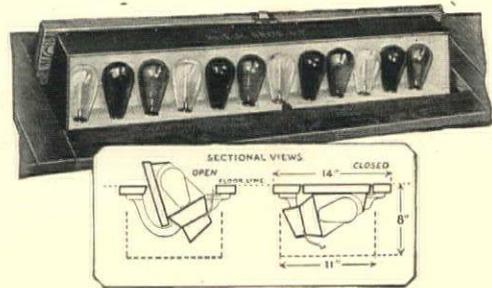
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**W**ITHOUT obligation we work hand in hand with the architect preparing illustrations and blue-prints based on floor plans showing Jewetts adapted to unusual requirements.

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REFRIGERATORS  
THE JEWETT REFRIGERATOR CO., BUFFALO, N. Y.



## Disappearing Footlights

FOR schools, lodge rooms, lecture halls, and wherever a footlight is required only occasionally. When not in use they may be closed flush with the stage floor. Made in standard five-foot sections, ready for installation. No. 829, shown above, accommodates fifteen 60- or 75-watt lamps; is wired for independent control of white, red, and blue lights, and is furnished complete, with oak flooring.

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| Cove Lights    | Step Lights  | Panel Boards  | Music Stands   |
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ESTABLISHED 1896

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**PITTSBURGH STANDARD Galvanized Conduit**  
The old dependable standard in Galvanized Conduit.

**It Protects** end of pipe and practically entire thread. This newest Thread Protector is cushioned with fibre; it is held in place by three lugs.

Gives thread protection complete—one means to a secure, satisfactory conduit system.

**Enameled Metals Company**  
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The point is we ought to get together.

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BY

POWERS REPRODUCTION CORPORATION

PHOTO-ENGRAVING SPECIALISTS

205 WEST 39th ST.

NEW YORK CITY

TELEPHONE: PENNA. 0600

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Purpose*  
which turns  
*Work into Art*



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888 PARK AVENUE



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1125 PARK AVENUE

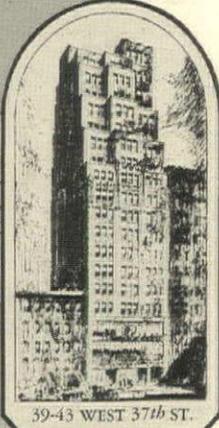
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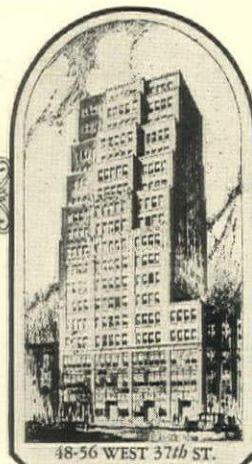
Building construction is fast combining industrial science with art. But buildings reflecting finished craftsmanship are the result only of long experience and conscientious purpose.

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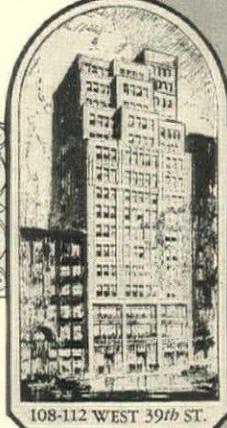
Seven new structures, three commercial and four Park Avenue apartments, will reach completion in 1927



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INCORPORATED  
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This improved type of steel Floretyle Construction insures absolute accuracy of the reinforced concrete joists and positive attachment of the ceiling below. Truscon Ribbed Steel Floretyles snap into prongs in the Locktyle Lath. Concrete is poured directly around the Floretyles for floor above and plaster applied to the Locktyle Lath for the ceiling below. This superior fireproof construction provides flat ceilings of long span and is light in weight, soundproof and economical. Sixty Truscon offices are ready to give you complete cooperation.

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**TRUSCON STEEL COMPANY**

ESTABLISHED 1903

YOUNGSTOWN, OHIO

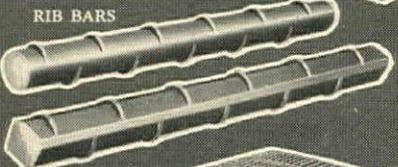
*Warehouses and Offices in all Principal Cities*

*Specifications of most products advertised in THE AMERICAN ARCHITECT appear in the Specification Manual*

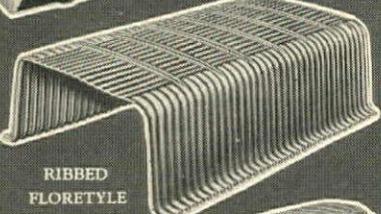
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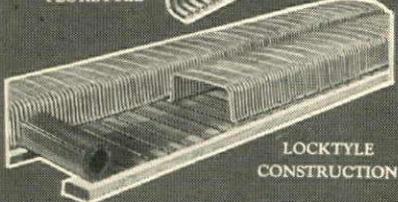
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RIB BARS



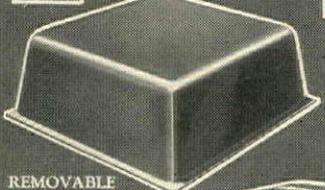
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LOCKTYLE CONSTRUCTION



WYDESPAN



REMOVABLE FLOREDOME



REMOVABLE FLORETYLE



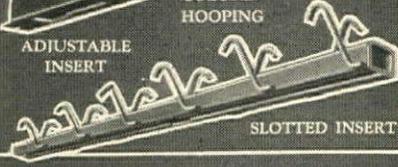
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 SUPPLEMENT YOUR ENGINEERING  
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 TRUSCON WAREHOUSE DELIVERIES  
*for* SPEED



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Thorp doors in bronze or copper make the most durable and economical kind of entrances for all types of public buildings. See our catalogue in Sweet's, pages 822-825.

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Thorp doors are constructed of the finest materials and along lines tending to give great strength and long life. Thorp doors are a standard specification.

AGENTS IN ALL  
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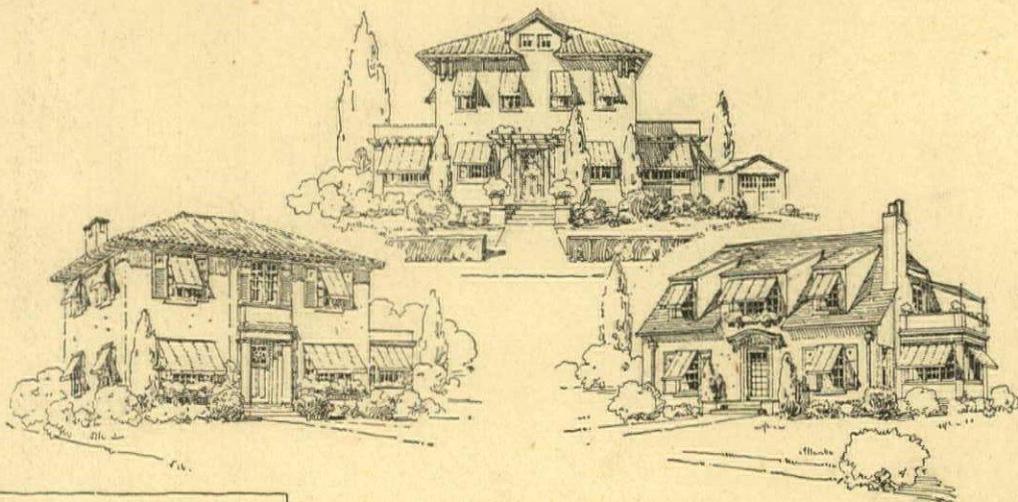
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 Minneapolis, Minnesota

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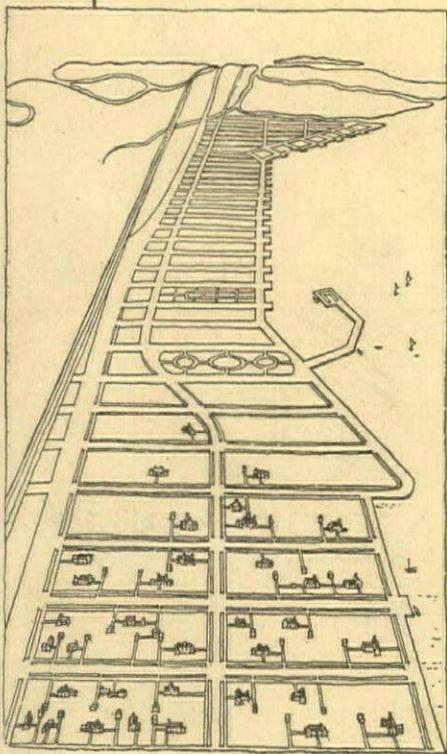


THORP DOORS

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Residences at West Atlantic City, N. J.



Bird's eye view of the West Atlantic City development

## This Winter Playground Basks in Burnham Heat

**M**ORE than fifty houses in the new West Atlantic City development, at Atlantic City, New Jersey, have been equipped with Burnham Boilers.

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IRVINGTON, N. Y.

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