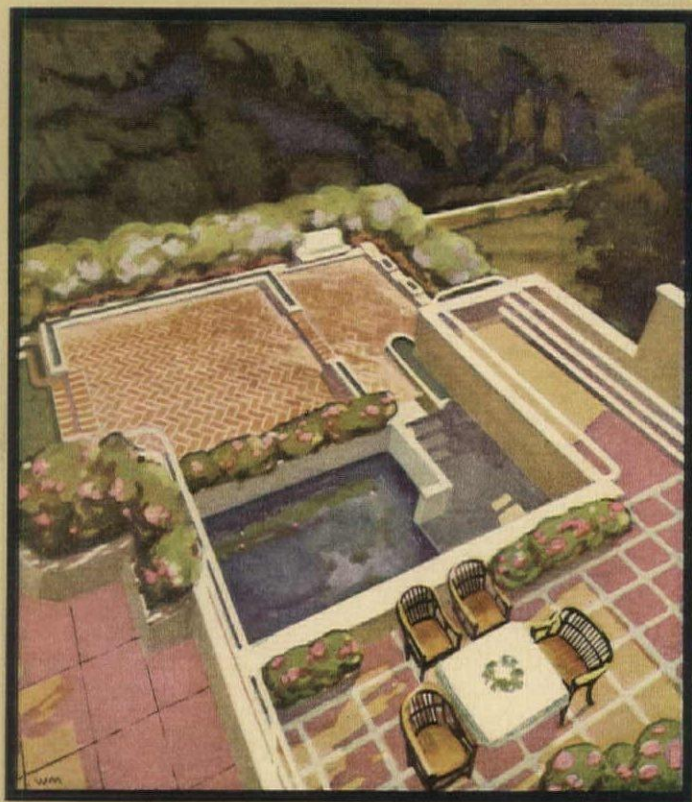


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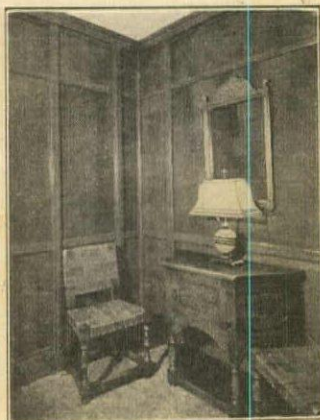


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JANUARY 1931

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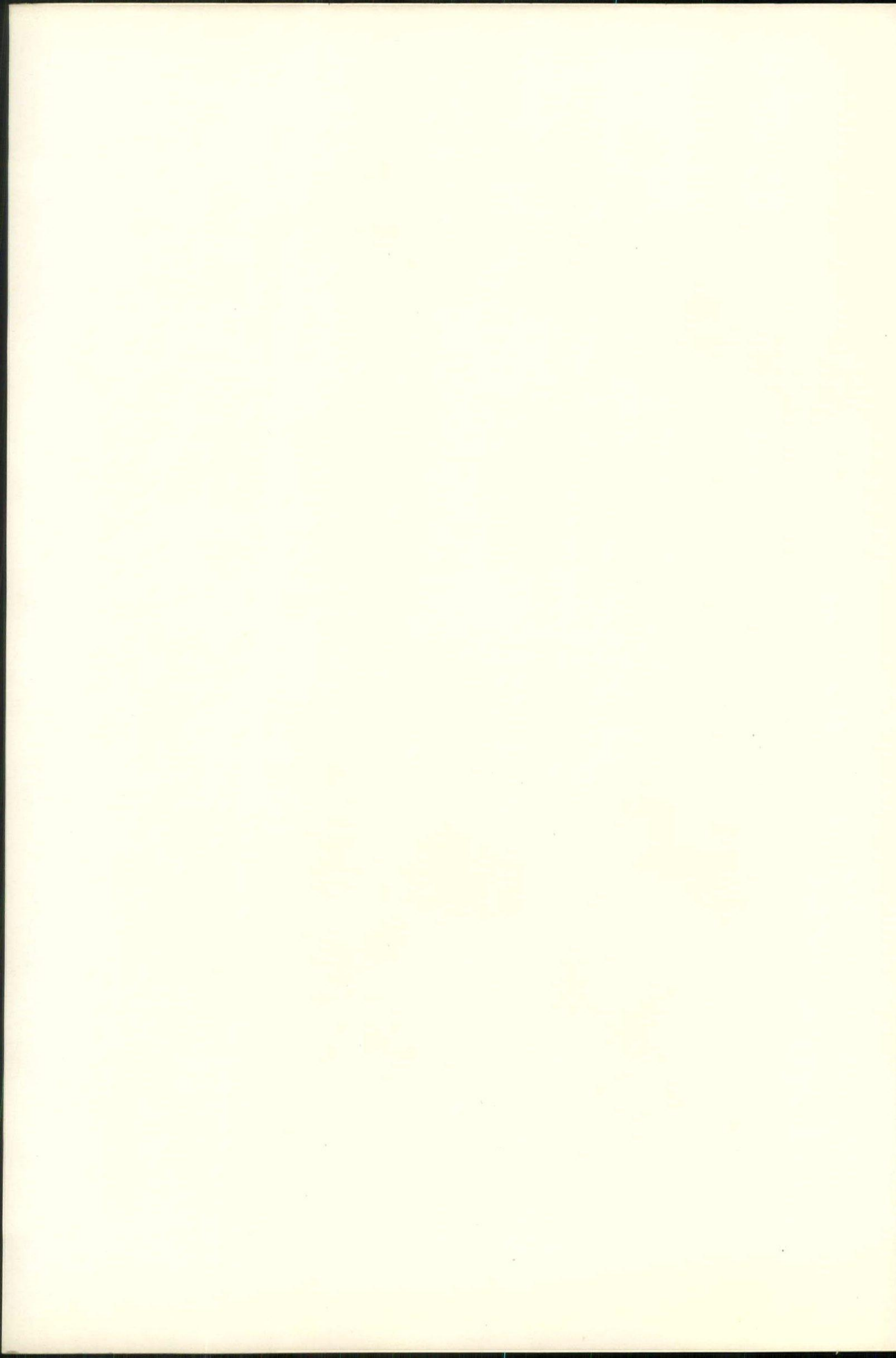
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JULY TO DECEMBER, 1930, INCLUSIVE

THE ARCHITECTURAL FORUM  
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# THE ARCHITECTURAL FORUM

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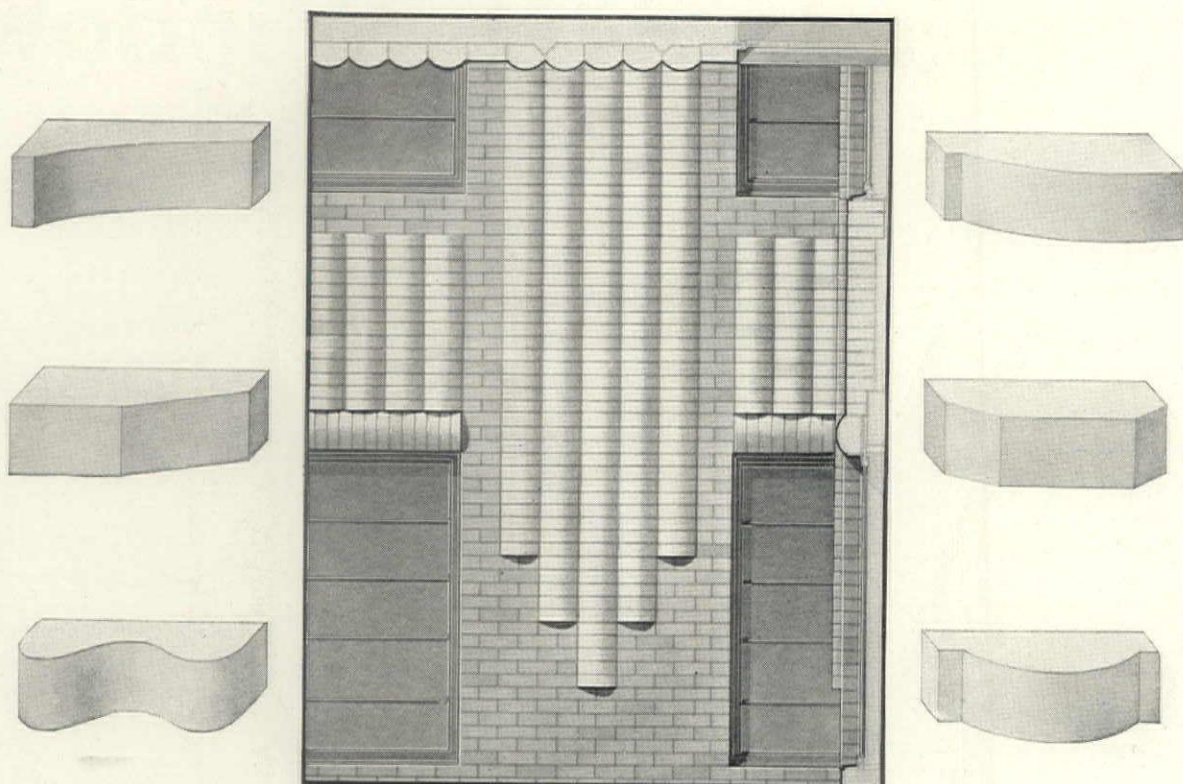
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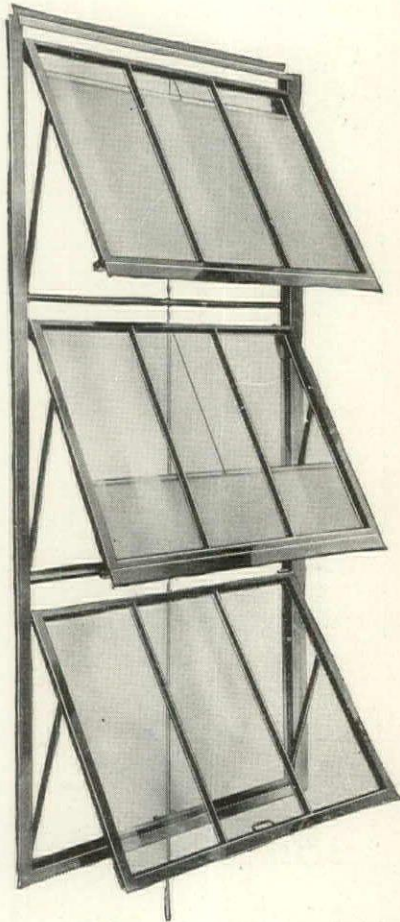
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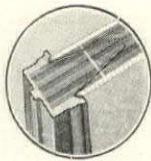
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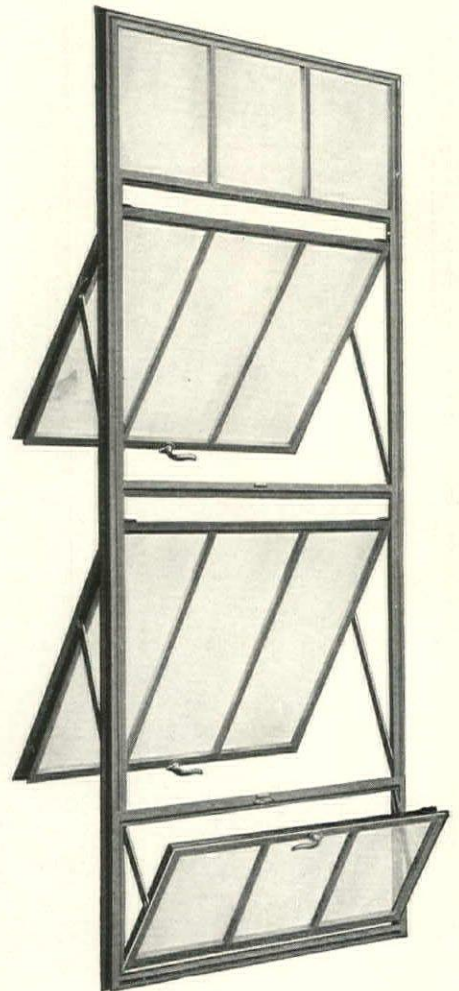
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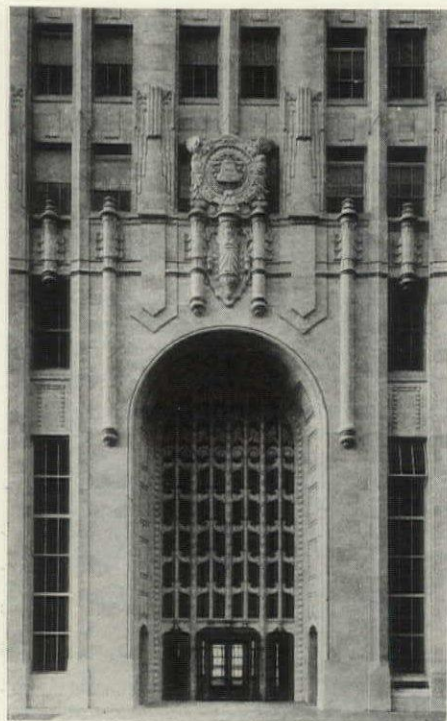
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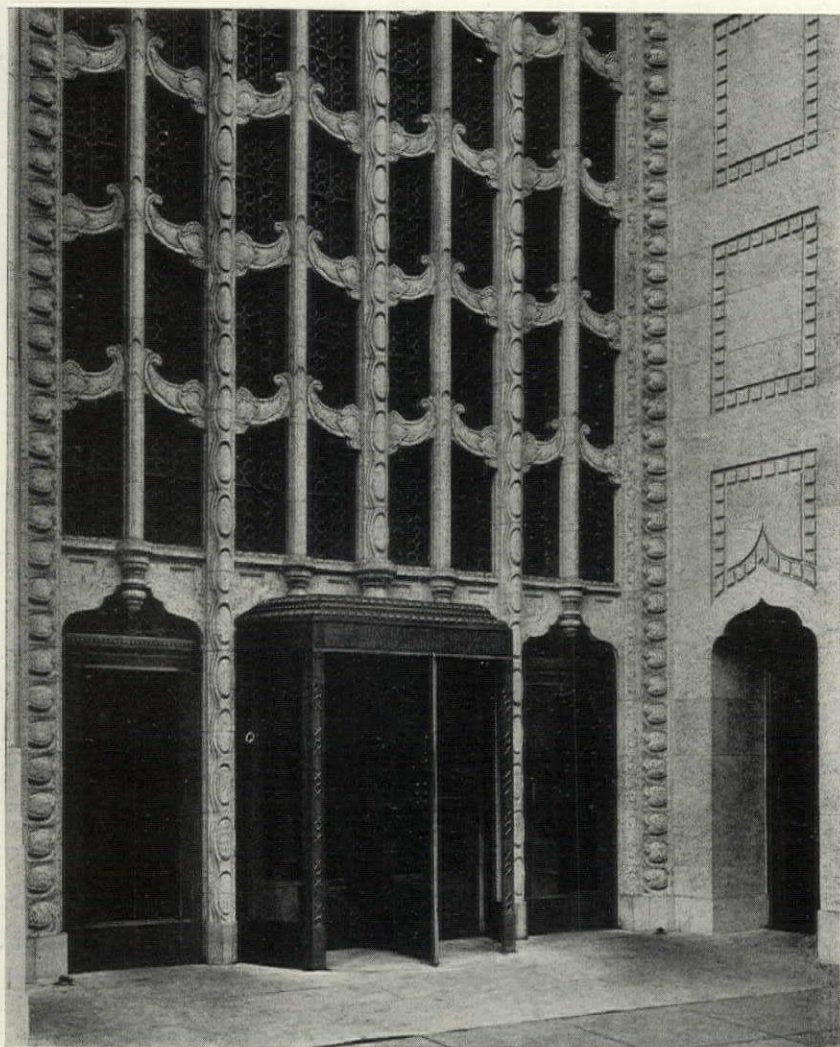


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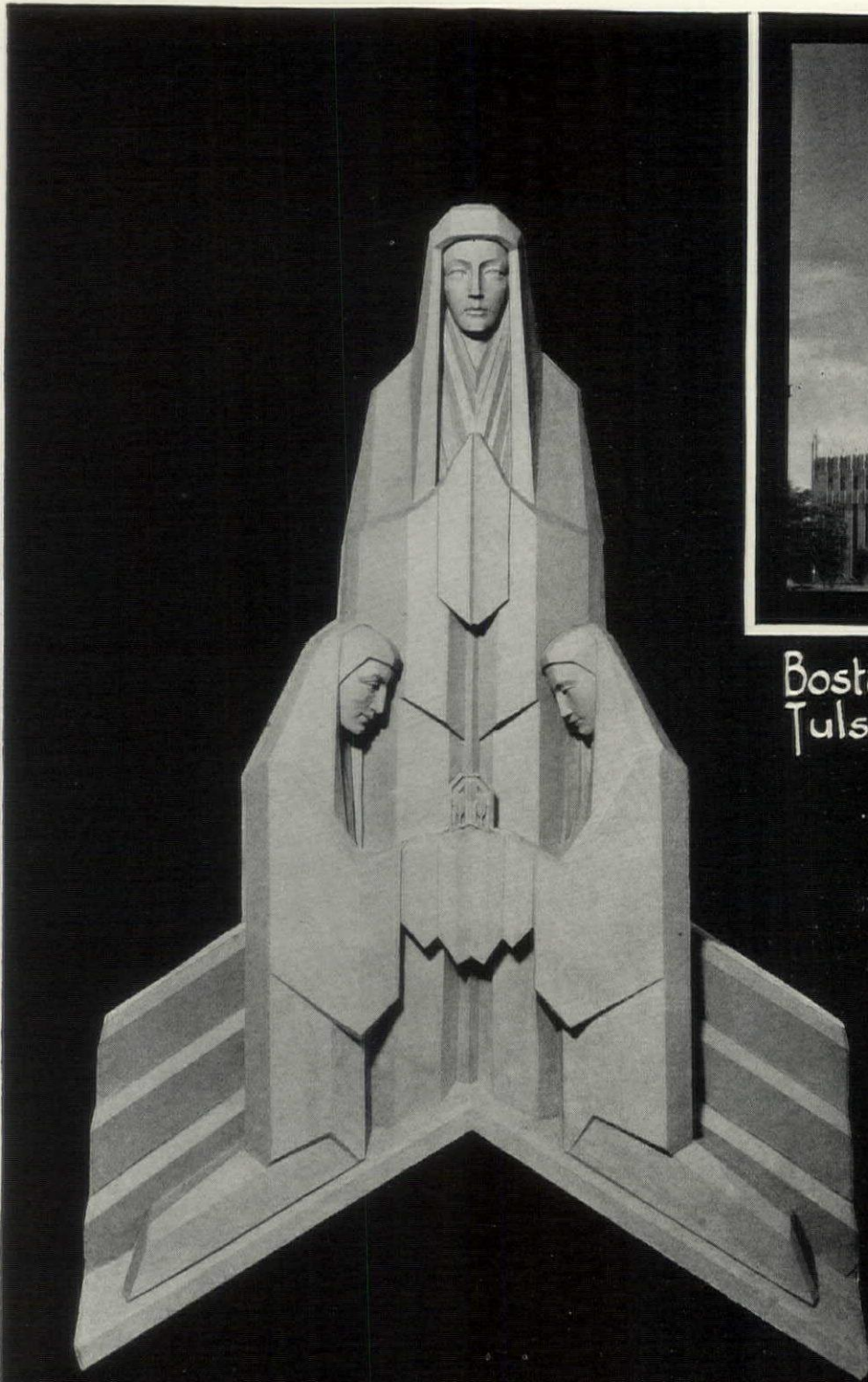
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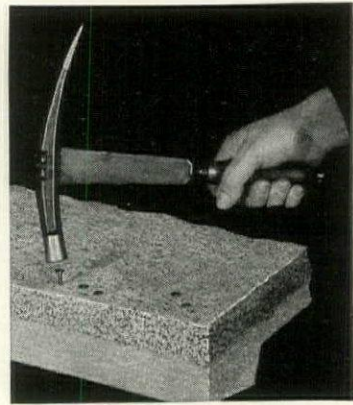
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Northwest School, Joliet, Ill.  
Foch School, Detroit.  
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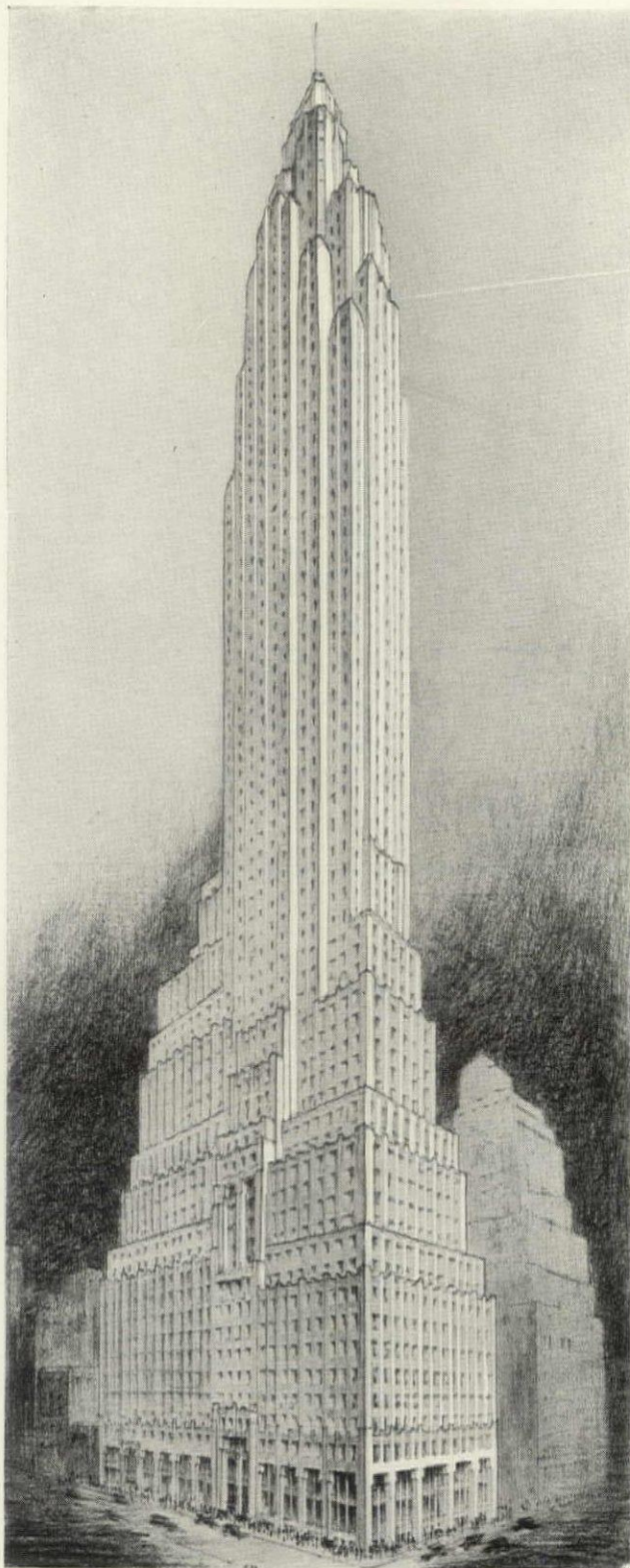
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Grosse Pointe, Mich., Pumping Station.  
Mundelein College, Chicago.  
National Kindergarten College, Wilmette, Ill.  
Meadville Theological Seminary, Chicago.  
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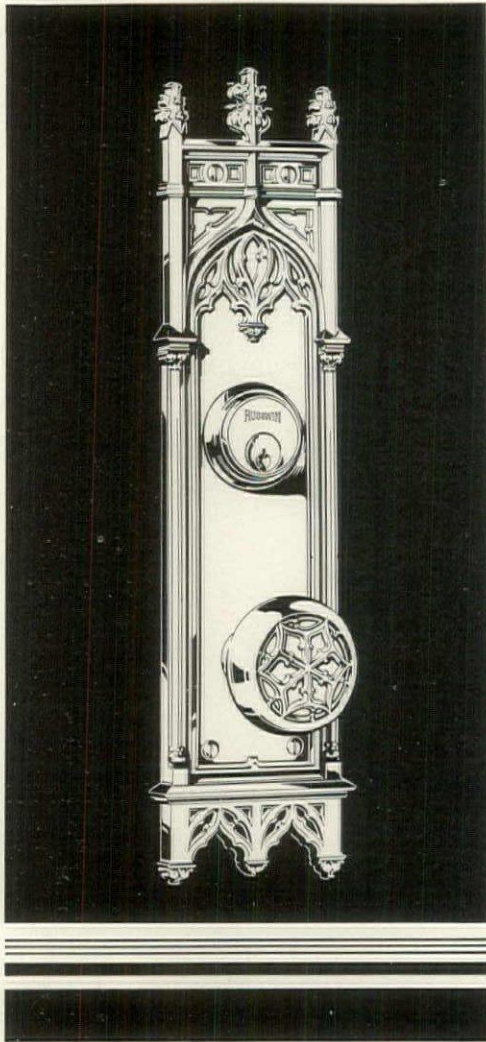
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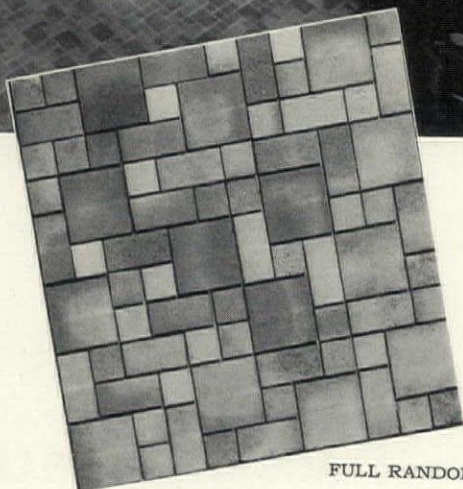
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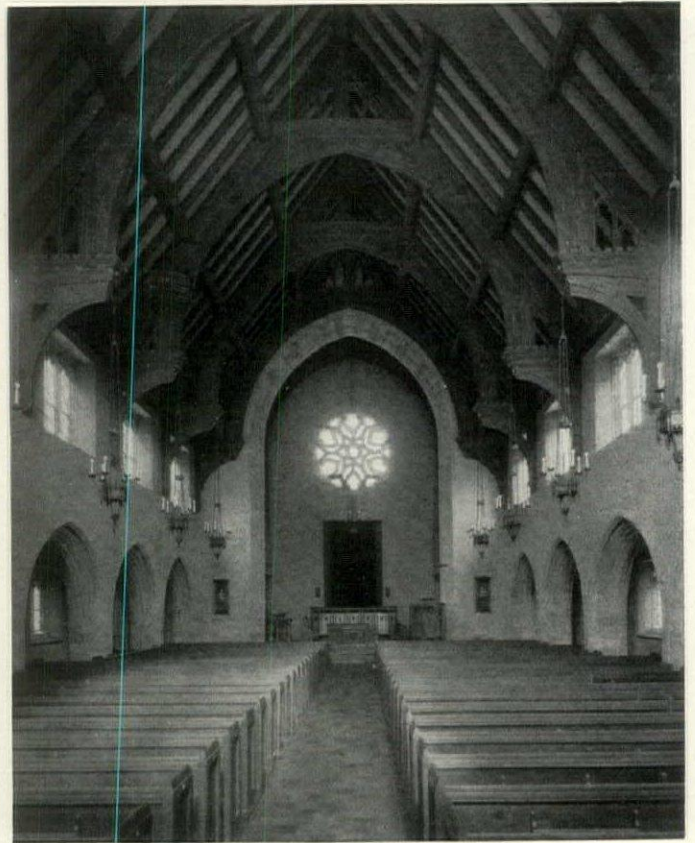
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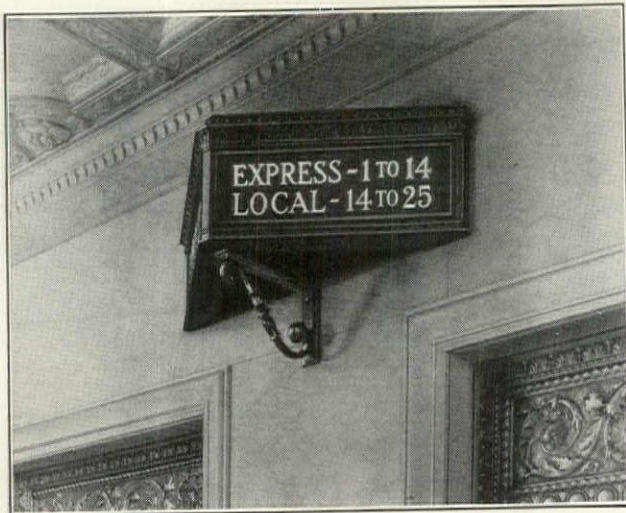


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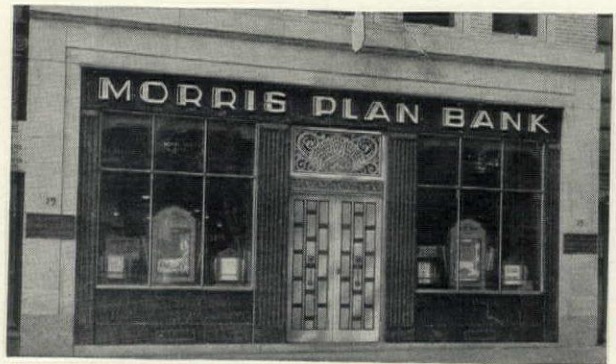
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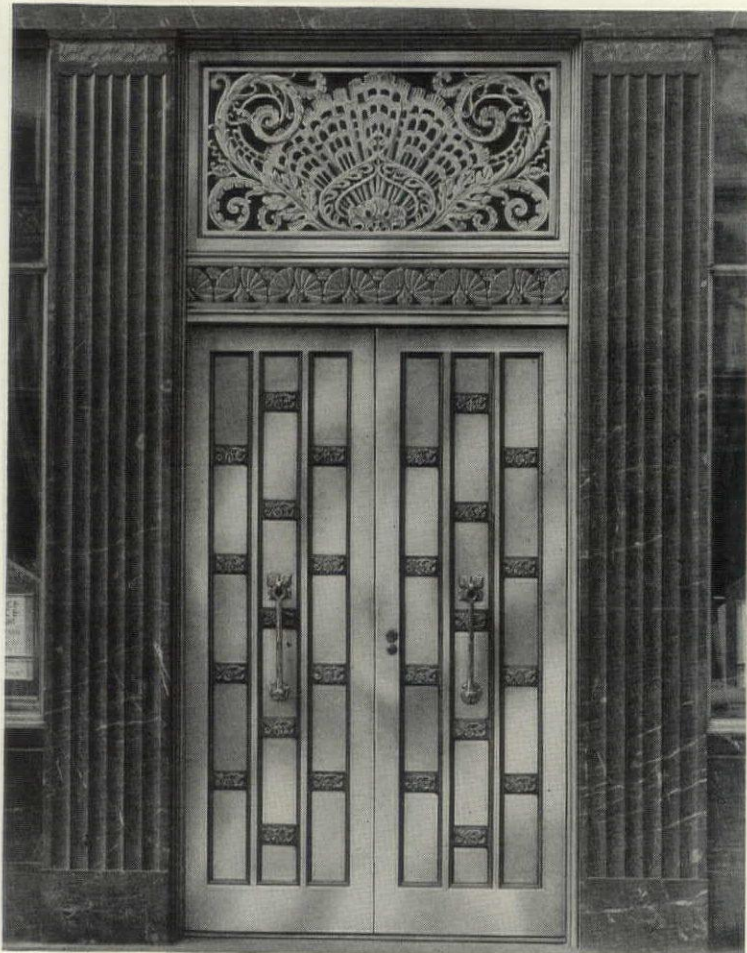
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*View of exterior metal work in Monel Metal and bronze at Morris Plan Bank, Baltimore, Md. Note particularly effectiveness of cast Monel Metal sign letters against background of black marble.*

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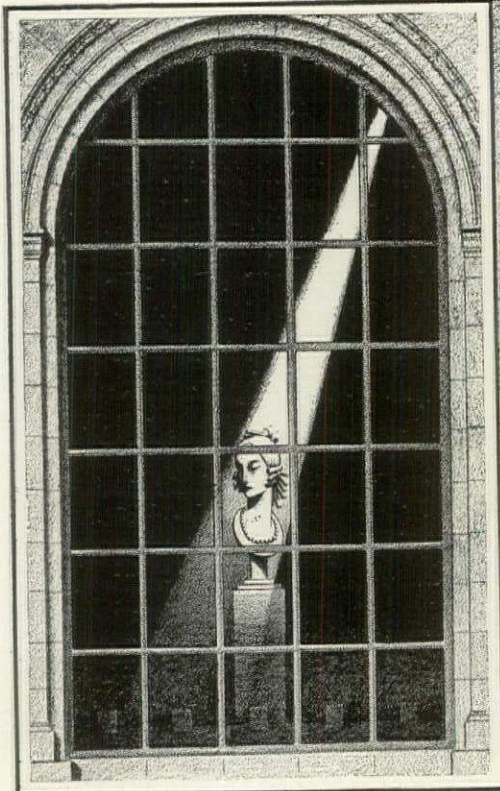
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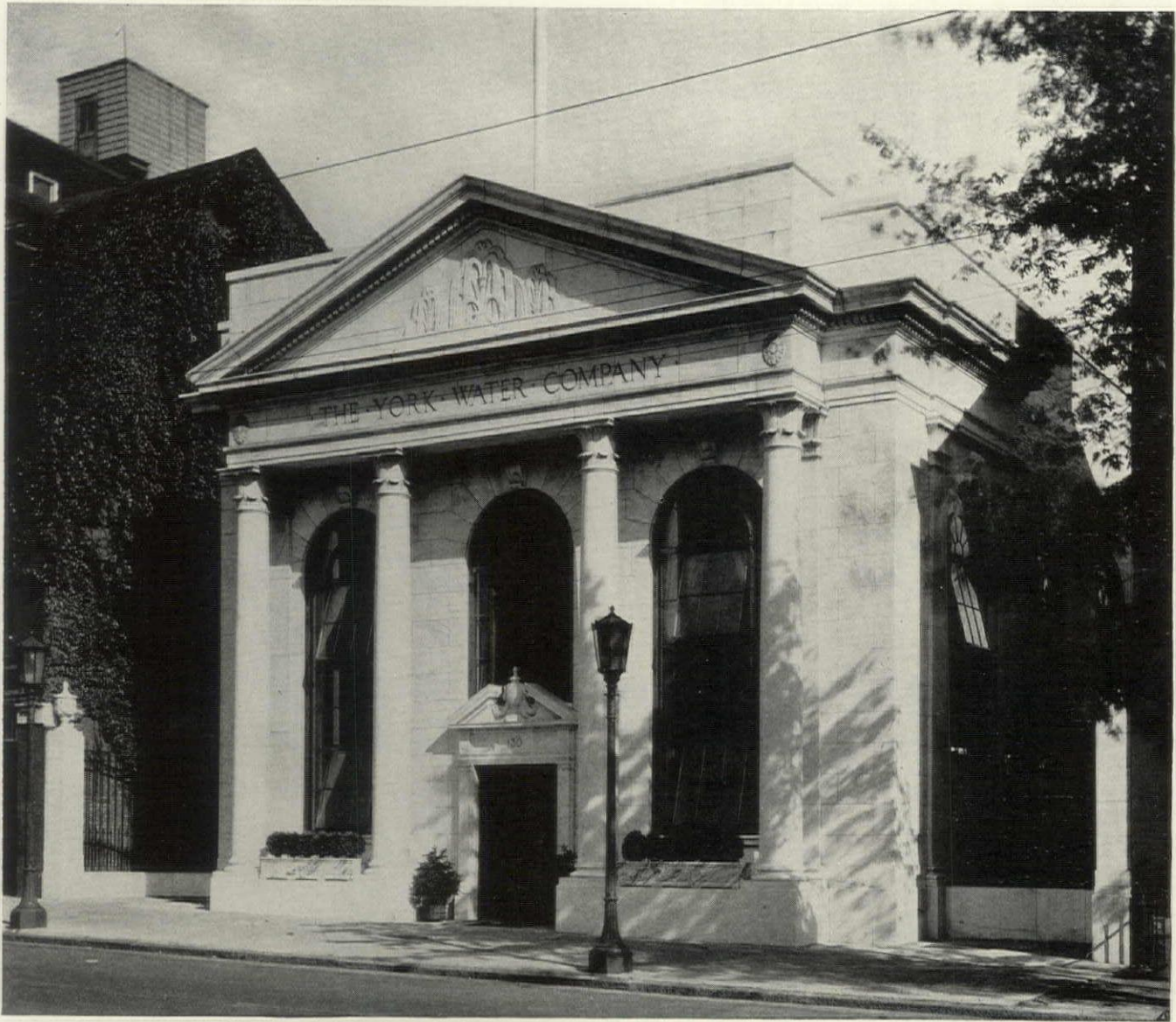
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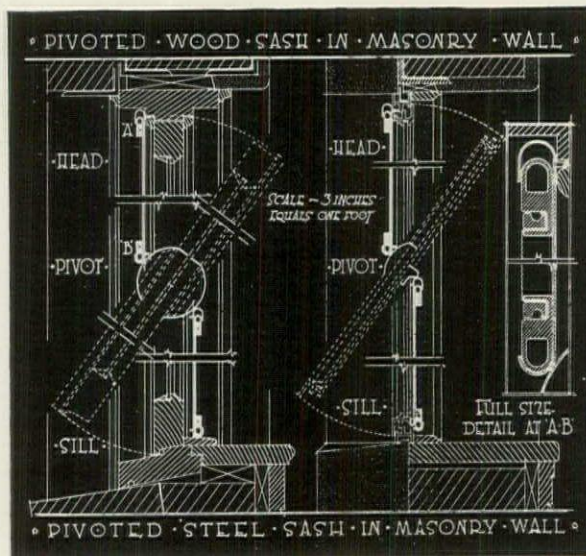
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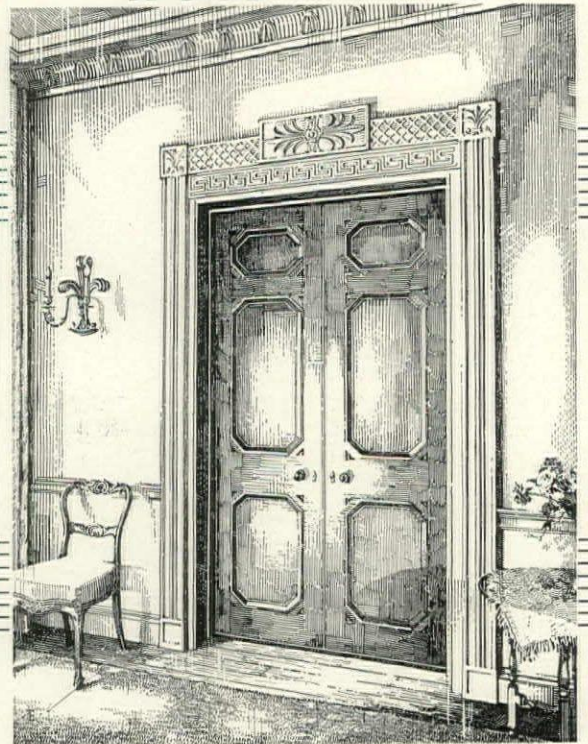
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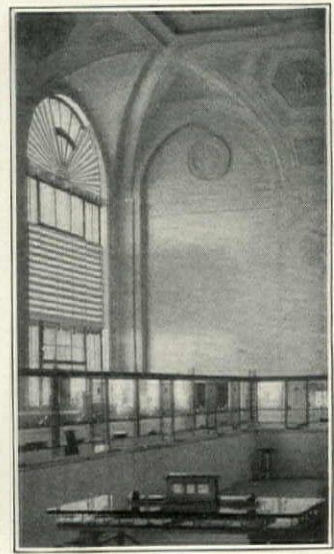
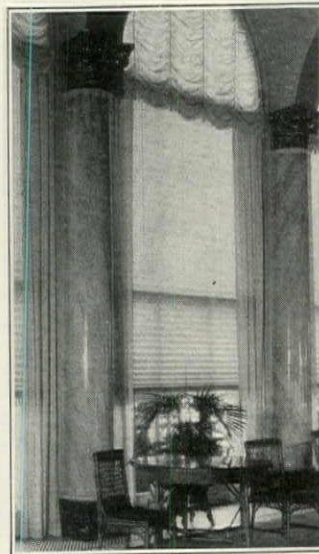
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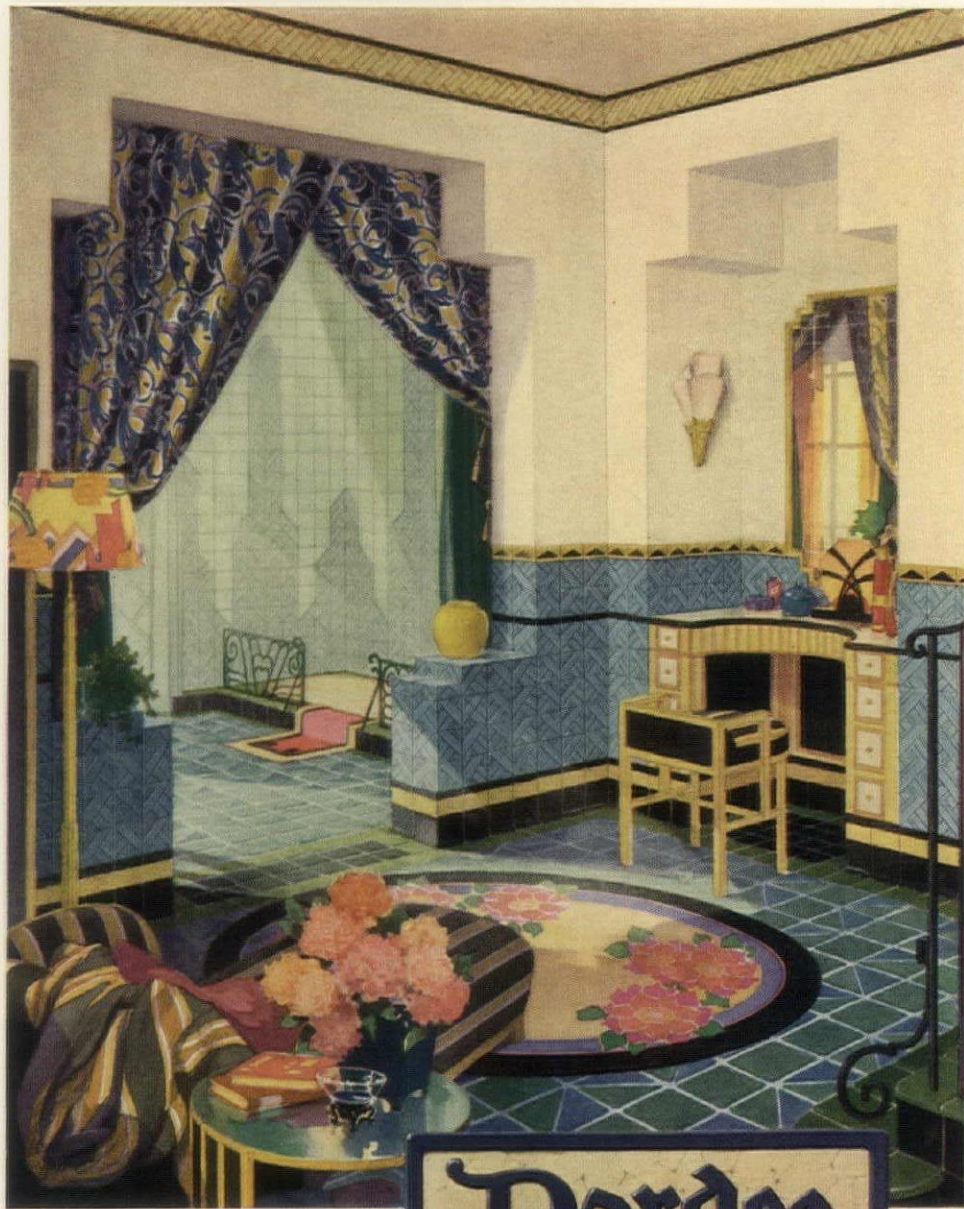
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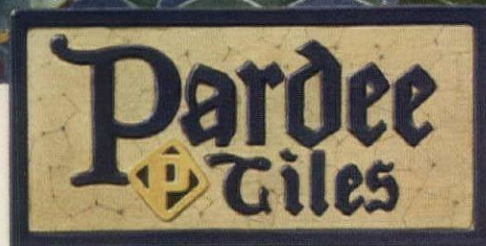
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City.....

State.....

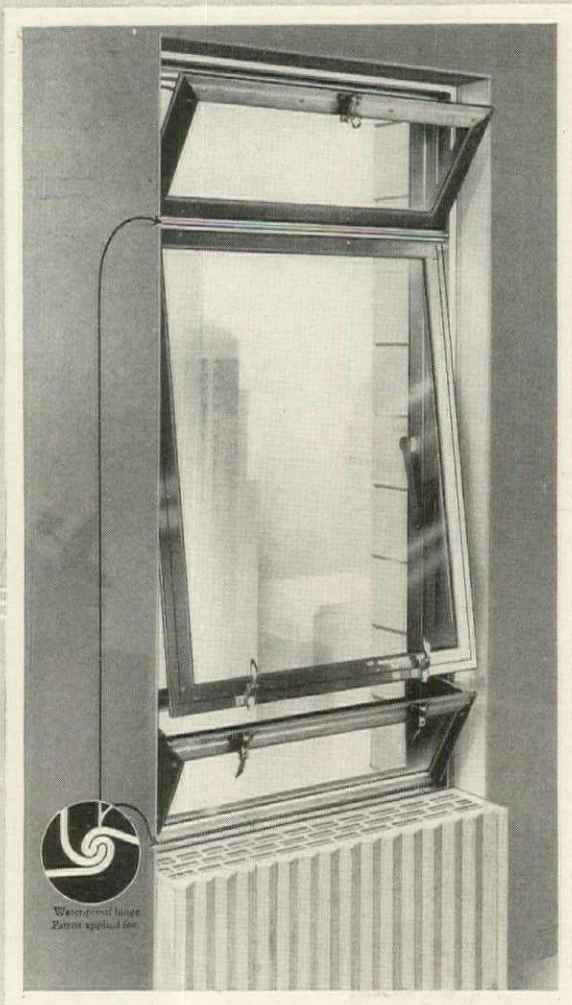
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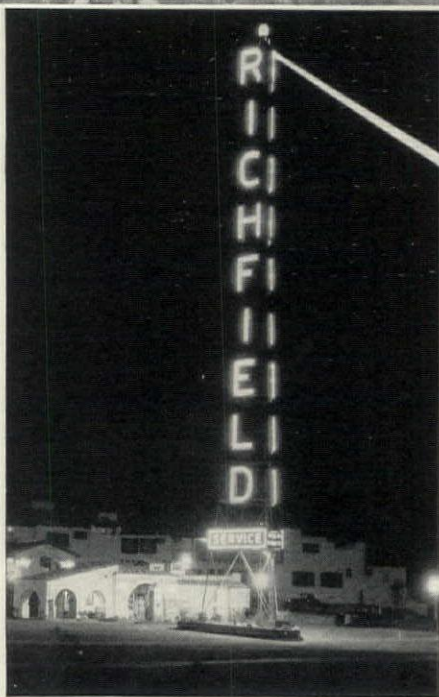


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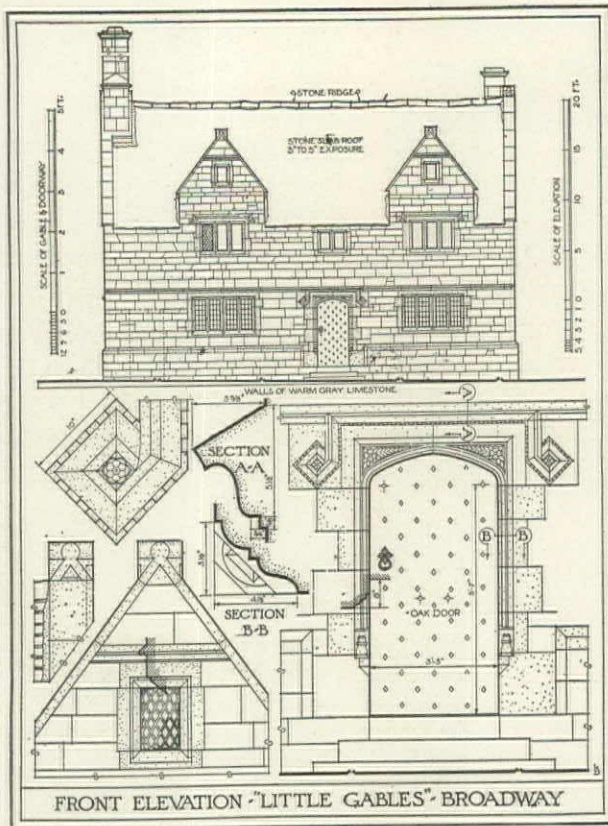
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Sketches — Photos — Details

By SAMUEL CHAMBERLAIN



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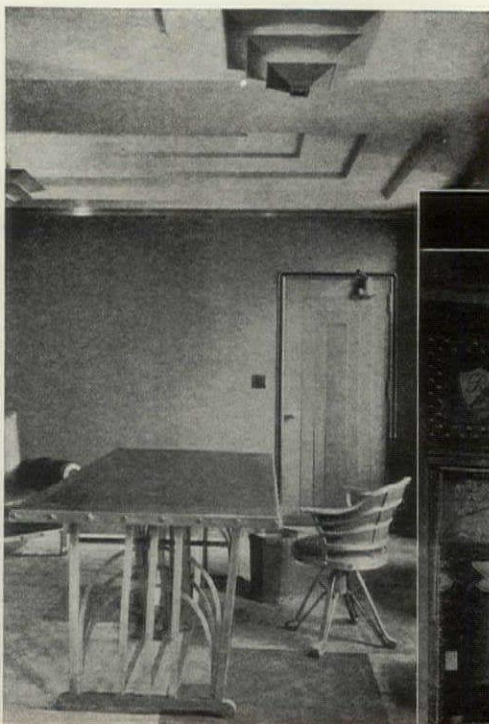
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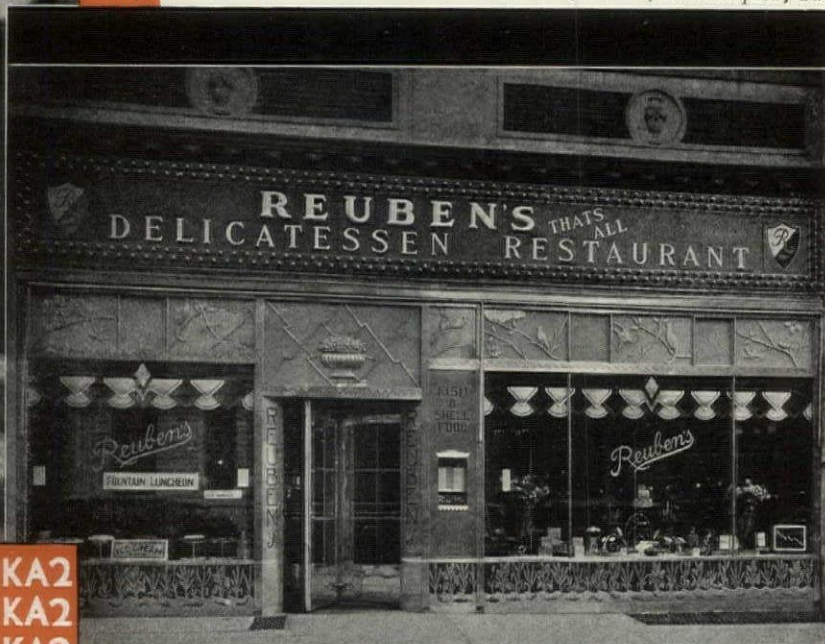


Cornice moulding, door trim and baseboard of stainless steel, by Metal Door & Trim Co. Furniture of stainless steel and other metals, by Oscar Bach. Office in Daily News Bldg., New York, Raymond Hood, Architect.

KA2  
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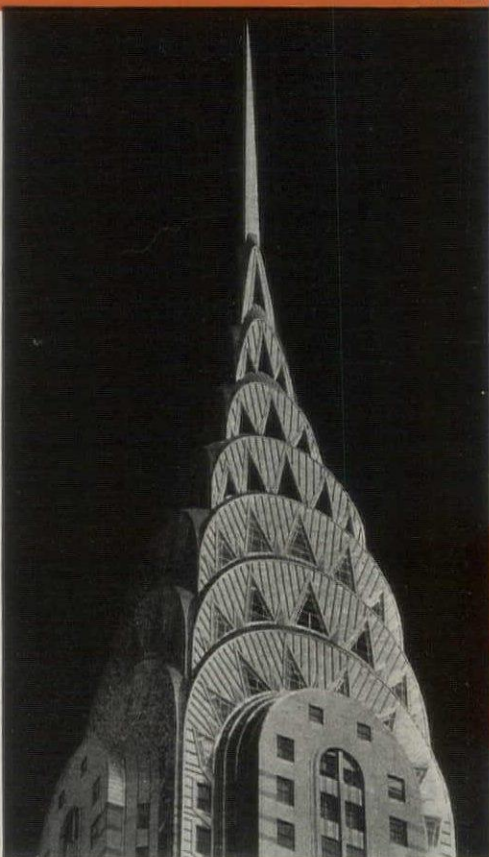
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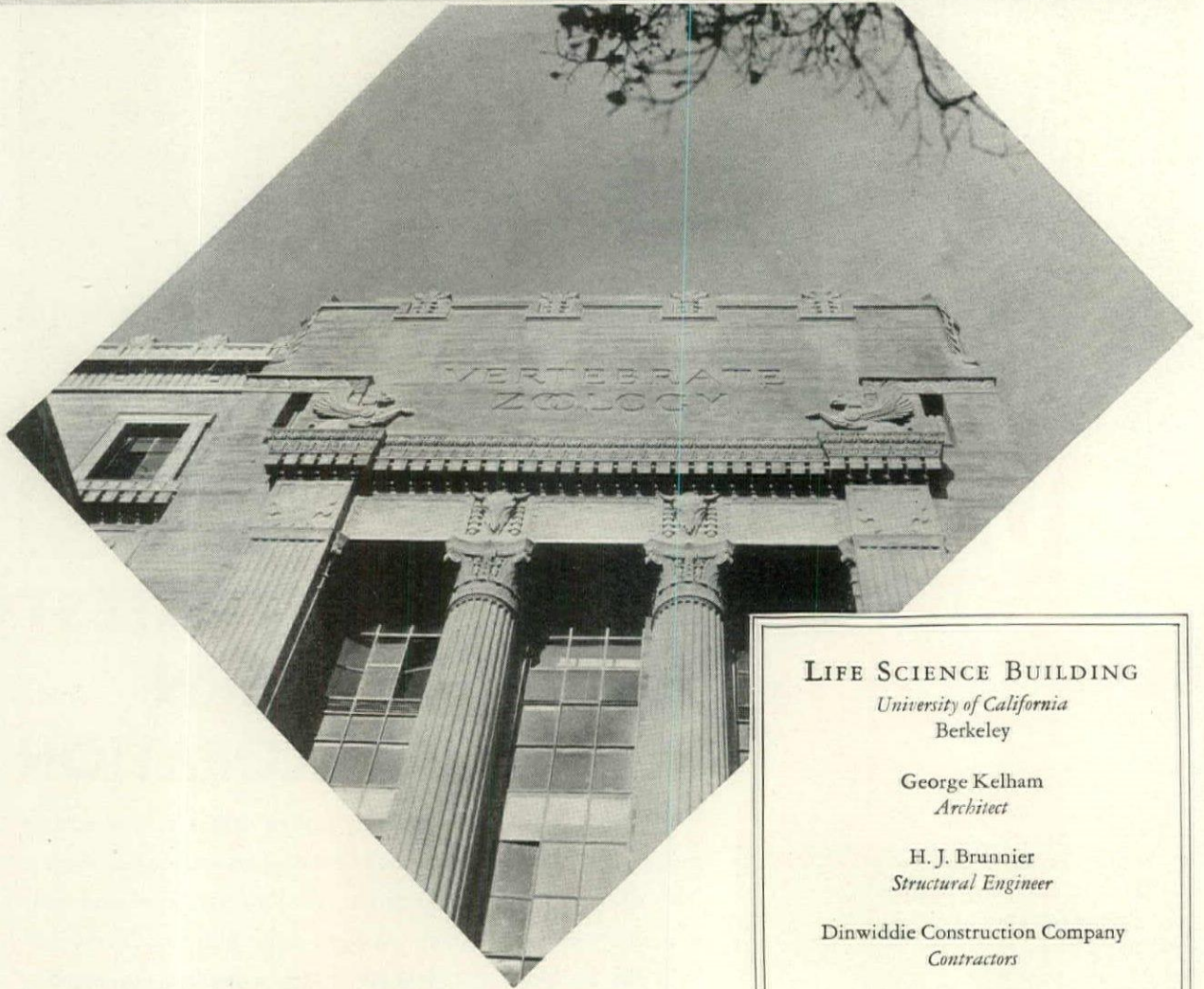
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A splendid example of Enduro Nirosa decoration on the Chrysler Tower, New York, William Van Allen, Architect.

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## BOOK DEPARTMENT

### DOMESTIC ARCHITECTURE IN MEXICO

A REVIEW BY  
WILLIAM P. SPRATLING

FOR anyone who is interested, and in Mexico long enough, there are qualities to be found in Mexican architecture far more important than what is usually referred to as the "Colonial" architecture of Spain. Books have been published about the Baroque in Mexico, the viceregal cities of Mexico, etc., but in Garrison and Rustay's "Mexican Houses" we encounter probably the first attempt to carefully study and present data on what *is* Mexican in houses.

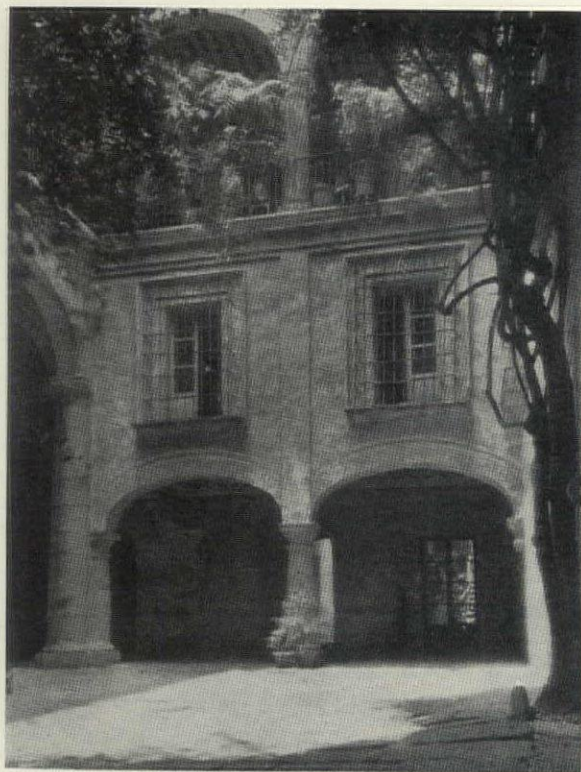
In Mexico it happens that the "Colonial" was an imposed style, and if one is looking for genuine Spanish character in buildings there, it is certainly to be found, particularly in the grandiose palaces and churches, though slightly inferior, perhaps, when compared with the thousands of originals in Spain. It is in the remote parts of Mexico and in the less imposing buildings that one looks for and finds the most charming things, the most ingenious bits of invention, and the most consistent development of local characteristics.

That is what Garrison and Rustay have done. They were not content, they probably were never even interested, in producing a volume of "show places." Instead, they dug in for their material; they went into the country and worked, and they availed themselves of all information the Mexicans themselves had to offer,—which is not as easy as it sounds. Jorge Encisco gave them priceless advice and information, and so did the Marquez de San Francisco, and likewise Moises Saenz and officials of the Department of Education. They visited and studied their material in all sorts of places the tourist agencies never heard of,—and probably will not hear of for a long time. They went to Zamora, to San Miguel Allende, to Uruapan and to Patzcuaro. And, in spite of the fact that they took the state of Jalisco to be named Guadalajara, they traveled more or less thoroughly from those parts southward, including Michoacan, Guanajuato, Queretaro, Mexico, Puebla, Guerrero and Oaxaca,—all the way to the Isthmus of Tehuantepec,—drawing and photographing, seeking to understand these peoples'

architecture, as they themselves say, ". . . intending deliberately to disregard all buildings of the more monumental types,—even though it was impossible not to pause frequently to admire the magnificence of the Churiguesque and the commanding beauty of what Dr. Atl calls the 'Ultrabaroque.'"

The result is a significant work. In "Mexican Houses" one may begin to discover Mexico. Architects will find in this volume an unsuspected wealth of domestic material. It is full of all sorts of things not taught in the architectural schools; one might say it is of the spirit, as opposed to the letter of good architecture. It will be a vast surprise to all those urban architects trained in the importance of the masters and the architecturally historic monuments.

These young architectural authors say in their preface: "Of the houses in this book, few are the work of architects. They were done usually by masons of the town, who were known to be good, and whose inspiration was drawn indirectly from the more important monuments of the place. In plan they were adapted sensibly to the requirements of the owners and to the ter-



Patio in Casa Furlong, Puebla

rain. The character of the ornament depended on the skill of the workers, influenced by a background of what, for lack of a better term, we call the 'Aztec tradition.' These people, who seldom left the places where they were born and whose ancestors came from races differing greatly in temperament and characteristics, were in part responsible for the individual nature of the work of various sections. It is perhaps true to say that in any country it is the architecture of secondary importance which best reflects the life and people of the time. . . So extensive was the architectural activity in Mexico throughout the historic period of the Spanish-Colonial occupation, so prolific in results, so general, and,—for this continent,— so unexampled in its lavish employment of the decorative arts, that it might be easy for a student of its phases to subject himself to the charge of over-enthusiasm, of an overestimate of its

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## Selected Books on Architecture

### Cottages, Farmhouses, and Other Minor Buildings in England

By L. C. Rosenburg

EVERY architect should have this splendid collection of photographs, measured drawings and charming pencil sketches of farmhouses and cottages in rural England, dating from the Tudor Period, the 17th and the 18th centuries. The various types of buildings have been selected with special reference to their development through the use of local building materials in the counties of Surrey, Sussex, Kent, Suffolk, Norfolk, Oxfordshire, Warwickshire, Wiltshire and Northamptonshire.

The book is illustrated by one hundred photographs, twenty-five sheets of measured drawings, and twenty-five full page pencil sketches of exteriors, interiors, doors, fireplaces, chimneys, windows, etc.

122 pages, 9½ x 12½ inches, cloth. Price \$10.00.

### American Apartment Houses—City and Suburban

By R. W. Sexton

A COMPREHENSIVE study of the modern American apartment house, to 1928, in its various phases, its designing and planning. Fully illustrated with views of exteriors, interiors, and plans, and including text which explains the entire subject of apartment houses, their planning and management.

316 pages, 9½ x 12½ inches, cloth. Price \$16.00.

### Golf and Country Clubs

By C. C. Wendehack

THIS splendid work on construction and equipment gives photos, details and data on the design of 55 modern club houses. No matter what style of architecture you want to use, it is well represented in the selection of examples given. Many of the details may be used in residential work.

There are 157 full page plates of exterior and interior details and floor plans. Fifty-one pages of text adequately describe every phase of the subject.

Contents—European Types and Purposes, Origin of The Club Idea, Location of Course, The Problem of Alteration, Modernization, Economy and Permanence, Club Units, Distribution of Costs, Genuine Investments, Par Club Buildings, Modern Temples of Sport, The Inspiring Influence of Color, Overnight at the Club, Club Dining Rooms, The Club Grill, Hearthstones, The New Locker Room, Locker Data, Locker Room Conveniences, Solving Club Water Problems, The Value of Pools to Clubs, Sprinkler Systems.

208 pages, 9½ x 13½ inches, 255 figures, cloth. Price \$15.00.

### American Architecture

By Fiske Kimball

WRITTEN for the layman as well as for the architect, this book presents a survey of American architecture from its first beginnings in the seventeenth century to its latest achievements in the twentieth. Mention of no important detail is omitted, and the carefully prepared text is accompanied by well selected illustrations in half-tone.

262 pages, 5½ x 8½ inches, cloth. Price \$4.00.

### English Homes—Volume VI—Late Georgian Period 1760-1820

By A. Tipping

THIS is one of the most popular of the six periods covered by this monumental work on English Architecture. The wealth of exterior views and interior treatments given in this volume has been welcomed by every architect who uses Colonial or Georgian style in his work. Over 450 beautifully printed photographs, of large size, clearly show all details. The descriptive and historical text not only explains the reasons for certain treatments, but adds to the clients' interest in the design. The examples reproduced were carefully selected, from thousands of charming houses and castles, for their architectural merit so as to adequately cover the work of all the leading architects in that style.

The companion volumes in this set are: Period I, Norman and Plantagenet (1066-1485); II, Early Tudor (1485-1558); III, Late Tudor and Early Stuart (1558-1649); IV, Late Stuart (1649-1714); V, Early Georgian (1714-1760); VI, Late Georgian (1760-1820).

450 pages, 11 x 15 inches, 450 illustrations, cloth. Price \$25.00.

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qualities. . . Classic in fundamental derivation, and possessing marked Oriental attributes, this architecture is freely romantic in its developments,—often most waywardly so."

The book is well made; the photographs are excellent and are beautifully reproduced, and the drawings are thoroughly craftsman-like and well informed. And one may say that in "Mexican Houses" we have something abundantly worth while; it reveals something intimately connected with the Mexican people and their *tierra*.

MEXICAN HOUSES. By G. Richard Garrison and George W. Rustay. 173 pp. 10½ x 13½ ins. Price \$15. Architectural Book Publishing Company, Inc., New York.

THE PERSONALITY OF A HOUSE. By Emily Post. 521 pp. 6 x 9 ins. Price \$4. Funk & Wagnalls Company, New York.

HAVING done much more than a little to direct into correct form the details of social life as they prevail in America, Mrs. Price Post has lately turned her attention to considering the architecture, decoration and furnishing of the American home. Mrs. Post, of course, speaks (or writes) as one having authority, for her good taste is, in the first place, inherited from her father, a well known architect, and by study and training and by constant familiarity with the best her judgment has been matured and her taste rendered more acute; it is easy for her to judge between the bad and the good, to distinguish between the good and the better, and then between the better and the best.

Even skilled architects and interior decorators do not always succeed in giving a house what Mrs. Post calls "personality," which might perhaps be defined as suitability for or agreement with the type of people who are to inhabit the home and with their mode of living. There are some architects and some decorators who will give their clients what they consider best for them and nothing else, but they are few, and the gift of dominating or controlling a situation is not given to many. Only too often a client comes to an architect or decorator with ideas fully formed, mind made up, and plans almost developed, the architect or decorator being retained merely to carry out the scheme already determined upon. The result is often tragedy, and in a few years the incongruity forces itself upon the client, and then there begins a process of remodeling, redecorating and refurnishing which might have been avoided had the client in the first place been willing to take the advice of some one well qualified to give it.

The scope of Mrs. Post's work is broad to the extent of baffling the ingenuity of the writer of a brief review. She deals with all the types of architecture which human ingenuity has devised since the days of ancient Greece; the individual home; the apartment, whether rented or owned; remodeling; furnishing and decorating; form and color; the arrangement of furniture, and a number of other subjects which defy classification. Particularly helpful to many readers would be that chapter which deals with the justly popular "coöperative" apartment house, for unless well planned, well built, and soundly financed and operated there exist many pitfalls into which the unwary might stumble. As might be expected, the illustrations, gathered from many sources, are ex-

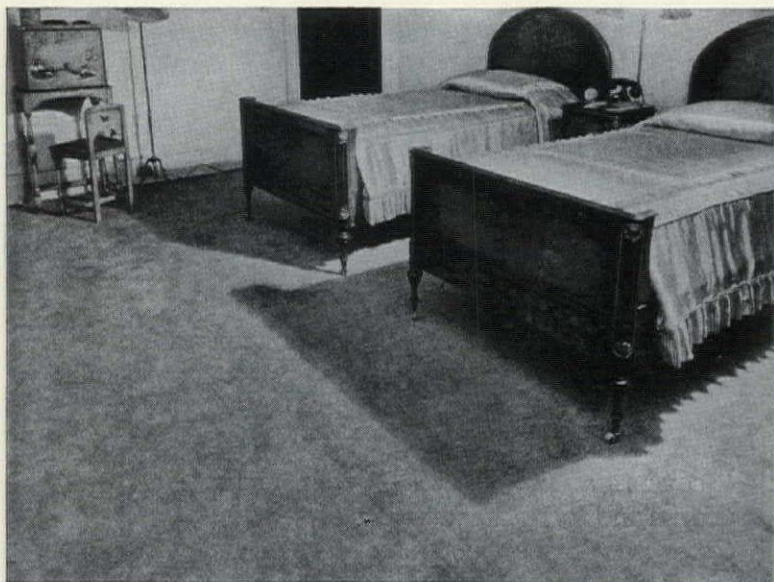
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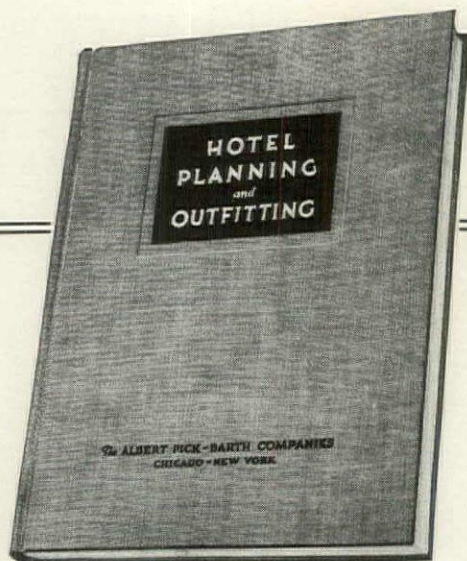
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438 Pages, 9 x 12 Inches, 500 Figures, Cloth.  
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cellent and chosen to emphasize the teaching of the text pages. Mrs. Post deals with the "modern" or "modernistic" type of decoration in a way which might be described as "gingerly"; in fact she seems to "damn with faint praise," and the illustrations which are used in this part of the volume show the most restrained and moderate versions in which the style can be used. All the illustrations are of exteriors or interiors of no great cost. Gone indeed is the day of vast Newport "cottages" and the great Fifth Avenue mansions, for even the extremely rich have learned the value of simplicity. Mrs. Post's volume will be valuable to architects and decorators, and to home owners in general who are interested in good taste.

THE NEW WORLD ARCHITECTURE. By Sheldon Cheney. 404 pages, 7½ x 10 ins., 389 illustrations, cloth. Price \$10. Longmans, Green & Co., New York, Chicago, Boston and Toronto.

A READING of The New World Architecture will certainly benefit all architects who are interested in the changes that are constantly taking place in architecture throughout the civilized world. Its reading will please many and exasperate some; in any event it will stimulate thinking and discussion. Architectural educators can profit by its reading, and it is to be hoped that they will acquire from it a realizing sense of the necessity of including a study of contemporary architecture along with the old. Mr. Cheney's thesis is that there is a New World architecture which has an underlying basic principle which is made manifest in different conceptions. This basic principle is architectural honesty and the avoidance of evasions and compromises. It is evident that this principle is becoming universally recognized and that its acceptance is inevitable among thinking and cultured people.

The author is thoroughly imbued with the correctness of his position and marshals a large number of illustrations from many sources which are presented as evidence. It must be conceded that he has presented a carefully prepared case which any of us can corroborate if we but open our eyes and look about us. It can be admitted that a new architecture has arrived which is basically correct in principle and will find general acceptance, though differentiated by national customs and ideals.

Although working along the same lines, there are two groups who vary in their conceptions of what constitutes architecture. One group, headed by Gropius, Oud and LeCorbusier, known as the Extreme Functionalists, would strip all structures of decoration and reduce them to the bare essentials necessary for a comfortable and healthful occupancy. The Vienna Secessionists, headed by Joseph Hoffman, Otto Wagner, Joseph Maria Olbrich and Peter Behrens, are just as fundamental in the basis of design and still admit the value of a rational ornamentation and grace of line and proportion. It is questionable whether the stark forms of the Functionalists will be acceptable in America. We can all admit the propriety of reducing every design to a basis of functionalism, from which to develop them.

Mr. Cheney writes in a spirited and understandable style, utterly free from that obscurantism that afflicts so many writers on architecture. To read this work is truly enjoyable. It is the most completely illustrated book on the subject yet printed and is absolutely up to date. As



# “Theirs is the province of joy and good humor”

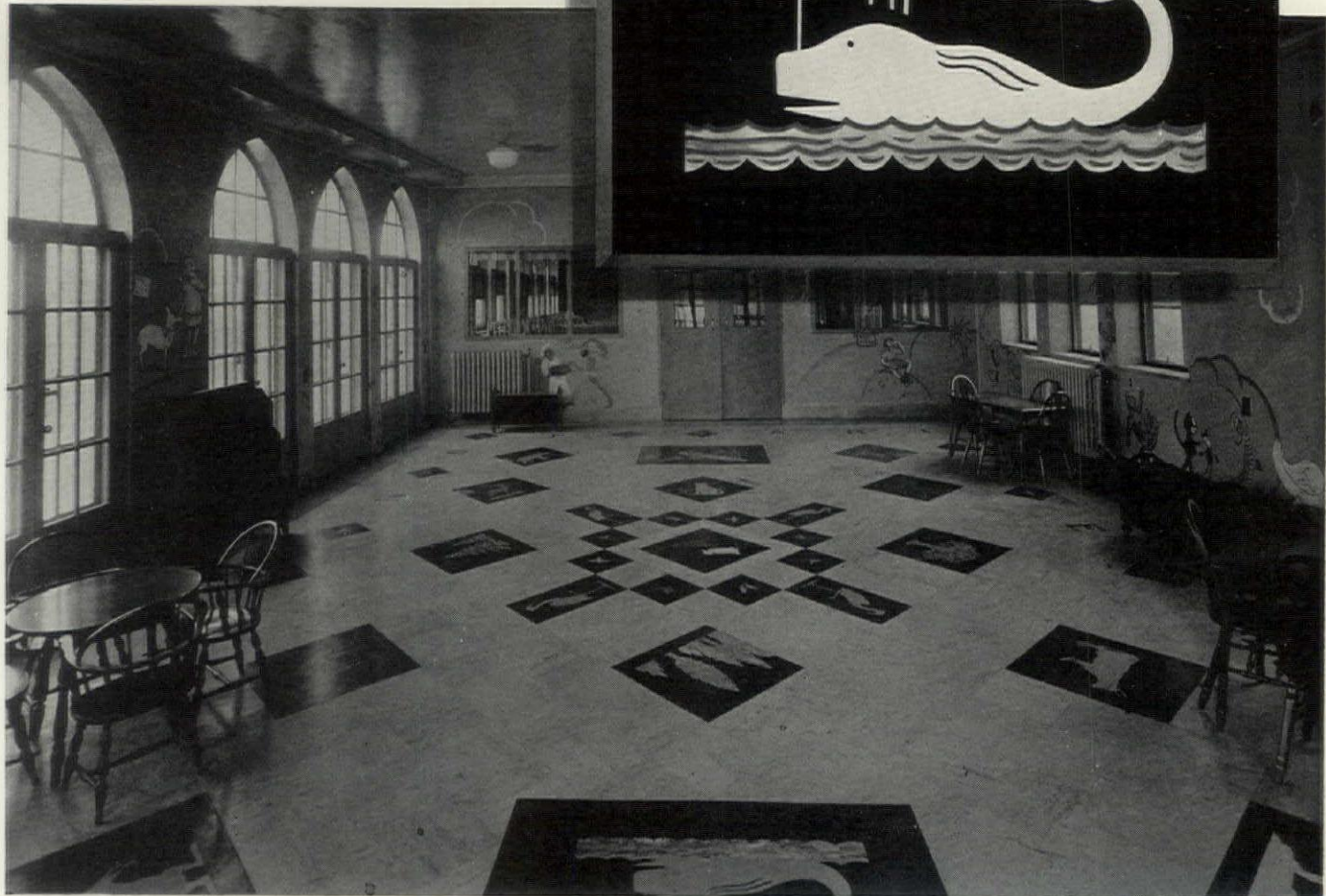
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*Playroom at the Bobs Roberts Memorial Hospital, Chicago, Illinois. Coolidge & Hodgdon, Architects. Floor is laid in 12 x 12 square tiles of Pink Tennessee, interspersed with Stedman inlays.*



## Selected Books on Architecture

### Cottages, Their Planning, Design and Materials By Sir Lawrence Weaver

THE five to eight-room cottages in this new volume are of that charming English type so popular here. Examples include exteriors of brick, stone, concrete, half timber, siding, pisé and thatched or slate roofed types. Special attention is also given to double or "paired" houses, gate lodges, housing groups and landscaping.

402 pages, 6 x 9 inches, 483 figures. Cloth, \$6.00.

### Monograph of the Work of Chas. A. Platt

ONE of the most popular books on high class Colonial or Classical Style residential and landscape work. Unusually interesting for those developing larger suburban properties. There are 183 photos and plates of exteriors, interiors, gardens, floor plans, details and working drawings.

193 pages, 11 x 15 inches, 372 figures. Cloth, \$16.50.

### Period Lighting Fixtures

By Mr. and Mrs. G. Glen Gould

THE most complete and authoritative work on this important subject, it is a study of lighting fittings of all the historic styles of architecture and decoration. Carefully written and lavishly illustrated, the volume is a dependable guide in the designing of fixtures for the most severely simple or the most elaborate interior.

274 pages, 6 x 9 inches, illustrated, cloth. Price \$3.50.

### The Modern English House

By R. Phillips

AN excellent presentation of the different forms being used in modern English domestic architecture,—particularly "small house" architecture. It includes illustrations of houses recently built, and in many instances the floor plans are given. The materials used are wood; half-timber; stone and brick; concrete; stucco over various sorts of masonry or on wood or metal lathing.

192 pages, 8½ x 11 inches, 350 figures, cloth. Price \$8.50.

### College Architecture in America

By Klauder and Wise

IN this valuable work two widely known architects of educational buildings collaborate in reviewing the entire situation as it applies to college and collegiate architecture. They have carefully studied practically every important institution in the country, and in their text they discuss administration buildings; dormitories; recitation halls; chapels and auditoriums; gymnasiums; libraries; and structures intended for certain definite and specific purposes, such as the teaching of music, all this being well illustrated with views of existing buildings and in many instances with floor plans and other drawings.

301 pages, 7½ x 10 inches, illustrated, cloth. Price \$5.00.

### Acoustics of Buildings

By F. R. Watson

THIS book covers the entire subject of Acoustics of Buildings. It describes briefly the action of sound in buildings, and, in accordance with the present knowledge of the subject, gives detailed illustrations for guidance in the acoustic design of new buildings and in the correction of acoustic defects. Mathematical formulae and theory have been minimized, but the results of experimental tests are set forth in considerable detail. Formulae which are needed for calculating acoustic effects are illustrated by numerical examples and curves. The book is divided into two main divisions, "Acoustics of Auditoriums" and "Soundproofing of Rooms."

152 pages, 6 x 9 inches, 72 figures, cloth. Price \$3.00.

### Specifications for a Hospital

By York & Sawyer

A VOLUME which sums up in terms of actual specifications the practice in connection with hospital building and equipment of a widely known and highly successful firm of New York architects. The work, which covers the specifications prepared by York & Sawyer for a large hospital in Pennsylvania, goes into every item which is included in the broadest definition of the word "specifications."

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said before, he demonstrates the existence of a New World architecture formulated from a common basic principle that evolved naturally from world-wide needs. A wide reading and discussion of this work are hoped for.

THE HOOKED RUG. By W. W. Kent. 210 pp. 7½ x 10 ins. Price \$5. Dodd, Mead & Company, New York.

FOR many years there has been evidence of increasing interest in the revival of the old crafts which engaged the attention of people during the early days of America. Patchwork; weaving of many kinds; the making of pottery, pewter and furniture; embroidery; work in crewel and lace, and various other old crafts have been studied, revived and popularized until now they are in widespread favor. Along with all this there has come a revival of the making of the hooked rugs such as were made in early days in the seaboard parts of this country and in the eastern provinces of Canada. So great has been the interest in these old rugs that many ancient towns, villages and farm houses have been explored and garrets ransacked, and such rugs when discovered have been easily purchased, since their owners regarded them as of small value. Several large collections have been formed, and the prices which some rugs, when well made after good patterns and when well preserved, have brought in auction rooms, have been astonishing.

The process of making hooked rugs is simplicity itself. It consists in first tracing a pattern upon a piece of strong cotton or linen fabric, and then developing the pattern by means of a hook somewhat resembling a crochet needle, and narrow strips of cotton or woolen pieces of appropriate colors, drawn back and forth by the hook through the ground fabric. The pattern thus developed, the field or background is filled in, and the surface is then clipped or left as it is. Some experienced workers clip their rugs in such a way as to leave certain parts in relief,—"bas-relief" in a sense. It will be seen that there is nothing in the making of hooked rugs which requires great skill. What is required is considerable patience, along with excellent taste in choosing patterns and colors. With a little experience a worker will develop skill and smoothness in the work.

Mr. Kent, a well known architect, has for years been making an enthusiastic study of this fine old craft. He has traced the origin, or rather origins, of the hooked rug and its development in different localities, and being an architect, he has paid considerable attention to the matter of design. The making of such rugs is being more widely done today than might be supposed. It is work which often enjoys the attention of old seamen and retired sea captains and old sailors and soldiers; and there is one well known banker who finds in his work at the "frame" relaxation from his work as a financier. It affords to many people a means of what is called "self-expression." Mr. Kent's pages suggest the fact that in the matter of design the hooked rug has much in common with wrought iron, tile and mosaic. Anyone who has seen the marvelous mosaics in Italy, and those which have existed since Roman days in the ruined cities of north Africa, will realize the vast extent of riches in the sphere of design open to those interested in hooked rugs. They represent a craft well worthy of widespread revival.

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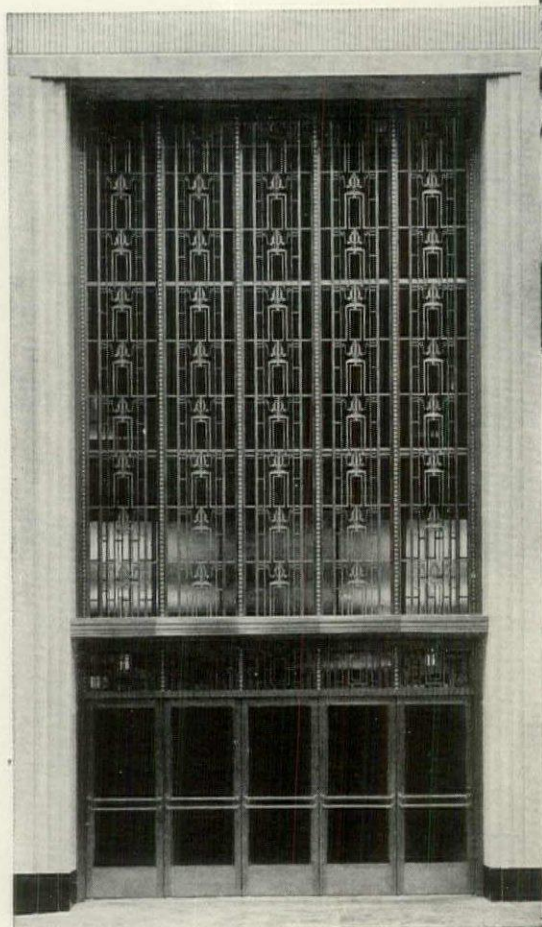
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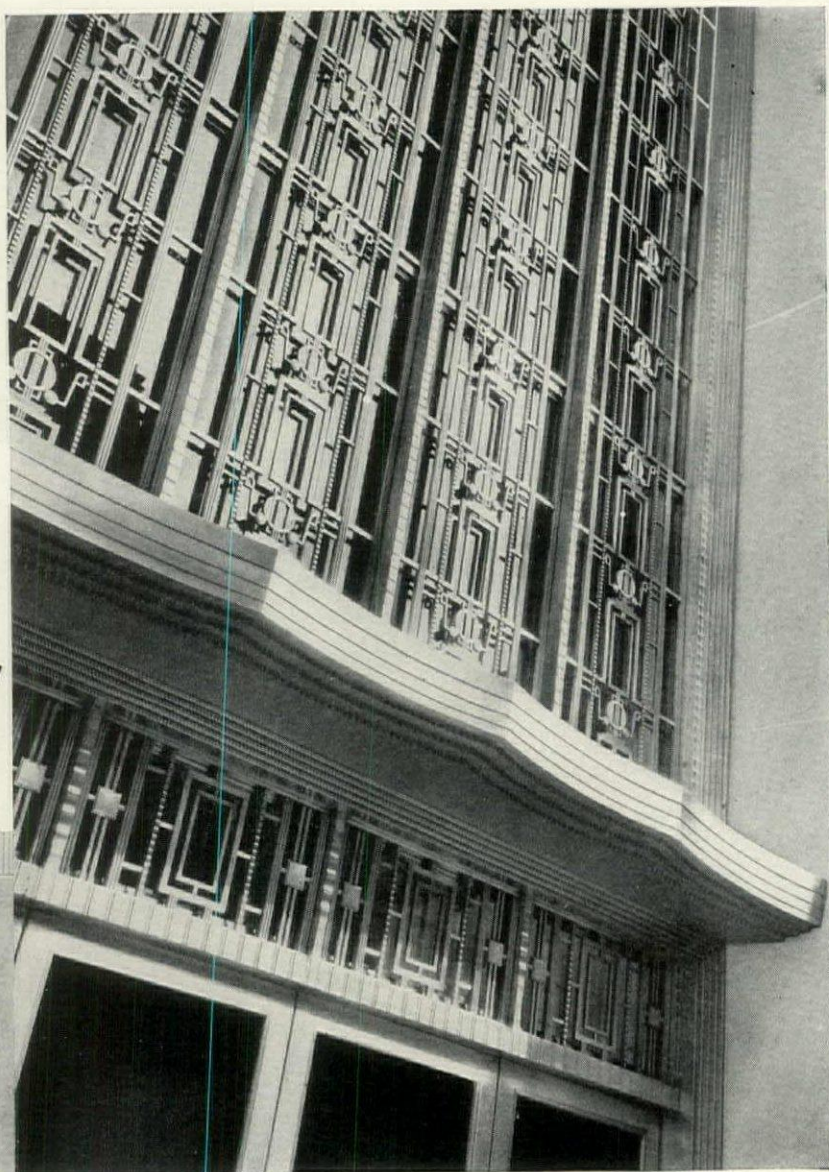
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James B. Newman  
of the Firm of Ely Jacques Kahn  
describes

"AN  
ENTRANCE  
OF  
DISTINCTION"



PHOTOGRAPH BY SIGURD FISCHER



"The main entrance of the new Bonwit Teller Store was designed to fit an existing building of distinction, to add a note of quiet refinement to the facade indicative of the store within, and to fulfill the utilitarian purpose of throwing a great deal of light across a lofty lobby into the front of the first and second stories. The general size and shape were approximately determined by existing conditions and the light factor led to the general open quality.

"The time of delivery was of vital importance, setting more than any other factor the opening date of the store. The entire inner and outer entrance metal work was installed by the General Bronze Company five days ahead of schedule, while at the same time their craftsmen were kept out of the way of the other trades."

The Metal on the Bonwit Teller Store Entrance is Nickel Silver  
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## NOTES AND COMMENTS

### THE KELLEY FELLOWSHIP

A RECENT addition to the number of scholarships open to American architectural students is that established in 1929 in memory of the late James Templeton Kelley of Boston. The fellowship is administered by the Boston Society of Architects (a Chapter of the American Institute of Architects), and is to be assigned to an individual of proved ability, whether a student, an instructor, a draftsman, or a practicing architect, for foreign travel for the pursuit of advanced studies in architecture. It is open to any man or woman residing within the area under the jurisdiction of the Boston Society of Architects (Maine, New Hampshire, Vermont and Massachusetts), preferably a citizen of the United States of America, and is to be awarded annually on the basis of evidence submitted by the applicant, and otherwise secured by the Committee on Education of the Boston Society of Architects.

The Executive Committee of the Boston Society of Architects makes the award on the recommendation of the Committee on Education of the Society. The holder is eligible for re-appointment. Applications for the year 1931 should be in the hands of Niels H. Larsen, Secretary of the Committee on Education of the Boston Society of Architects, 814 Statler Building, Boston, on or before January 19, 1931, and should give the applicant's age, education, experience, present occupation and suggestions for his work abroad.

### A SMALL HOUSE COMPETITION

THE fourth annual Small House Competition held by *The House Beautiful*, closed on October 15. The judges, consisting of Gordon Allen, A. I. A., of Boston; Francis Keally, A. I. A. of New York, and Ethel B. Power, Editor of *The House Beautiful*, unanimously awarded these prizes and mentions: In the 5-7 room class: First prize, William Wilson Wurster, San Francisco. Second prize, Soule, Murphy & Hastings, Santa Barbara. Third prize, Godwin Thompson & Patterson, New York. Honorable mention, H. Roy Kelley, Roland E. Coate, and David J. Witmer, and Loyall F. Watson, all of Los Angeles. In the 8-12 room class: First prize, Ralph C. Flewelling, Beverly Hills, Cal. Second prize, Roland E. Coate, Los Angeles. Third prize, Dunn & Copper, Cleveland. Honorable mention, Hammond W. Whitsitt, San Diego, and H. Roy Kelley, Los Angeles. In the remodeled class: First prize, Hudson & Hudson, Buffalo. Second prize, Benjamin S. Parker, San Marino, Cal. Honorable mention, Waldron Faulkner, New York, Arthur McFarland, Bar Harbor, Me., and Warren W. Ferris, Alexandria, Va. From the total number of entries submitted, 50 have been selected as usual, to form a traveling exhibit which will visit many of the larger cities of the United States on its way to the coast.

### RALPH STARRETT 1868-1930

ALTHOUGH continued ill health had caused Ralph Starrett to turn over much of his work during the last two or three years to his younger associates in Starrett Brothers, Inc., of Illinois, his death in Chicago on Monday, December 1, removes an outstanding figure from the building field.

Ralph Starrett was born July 27, 1868, in Lawrence, Kas., the son of William Aiken Starrett, a Presbyterian minister; his mother was Helen Ekin Starrett, prominent as an educator and founder of the well known Starrett School for girls in Chicago. He was one of five boys and two girls; two of the brothers, Theodore and Goldwin, died about 13 years ago. During the boyhood of Ralph Starrett the family moved to Highland Park, Ill., where he attended high school and later the Lake Forest Academy. After several lesser business activities he went to work in his early 20's with his brother Theodore, of the firm of Whitney & Starrett, and was identified with the building industry from that time onward, his name being associated with some of the company's most important commercial and other structures. After the crowded war period he suffered a nervous breakdown and was unable to work for some time. Although he recovered his health to some extent and was able to associate himself with his brothers as president of Starrett Brothers, Inc., of Illinois, the western building affiliate of the Starrett Corporation holding company of the various Starrett activities in the building field, the brunt of the work fell upon the shoulders of his younger associates, J. Soule Watterfield, and his three sons, Ralph Ward Starrett, Paul Starrett, and John Elliott Starrett.

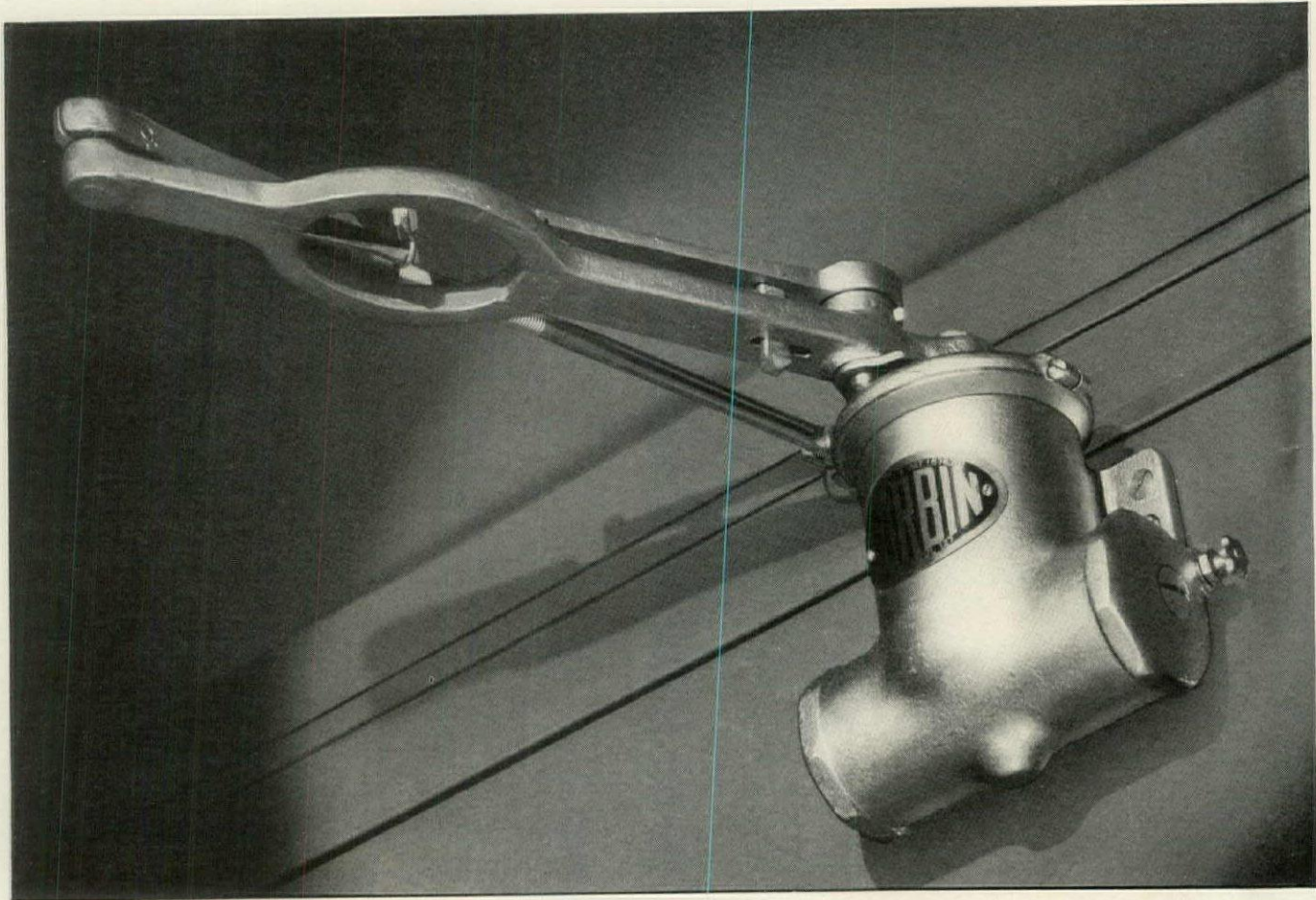
### ARCHITECTS' FINANCE COURSE

BEGINNING February 6, Columbia University will offer an evening course on "Architects' Relation to the Promotion and Financing of Income-producing Structures." Lectures and discussion will be in charge of C. H. Lench.

### BATHROOM DESIGN AWARDS

PRIZES amounting to \$27,500 were awarded to 270 architects in the recent bathroom design competition sponsored by the Standard Sanitary Manufacturing Company. In the Class A contest for \$15,000 homes, the leading winners were: Edgar Thompson, Detroit; Percival Goodman, New York; E. W. W. Klausen, Los Angeles; Ferdinand Eiseman, New York; and Charles E. Greenidge, Utica, N. Y. In the Class B contest, for houses with no limit on cost, the first five were: B. S. Grillo, New York; Richard Haviland Smythe, New York; Dwight E. Stevens, Cincinnati; Everett M. Jones, Chicago; Louis Reich, St. Louis.

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# THE ARCHITECTURAL FORUM

VOL. LIV, No. 1

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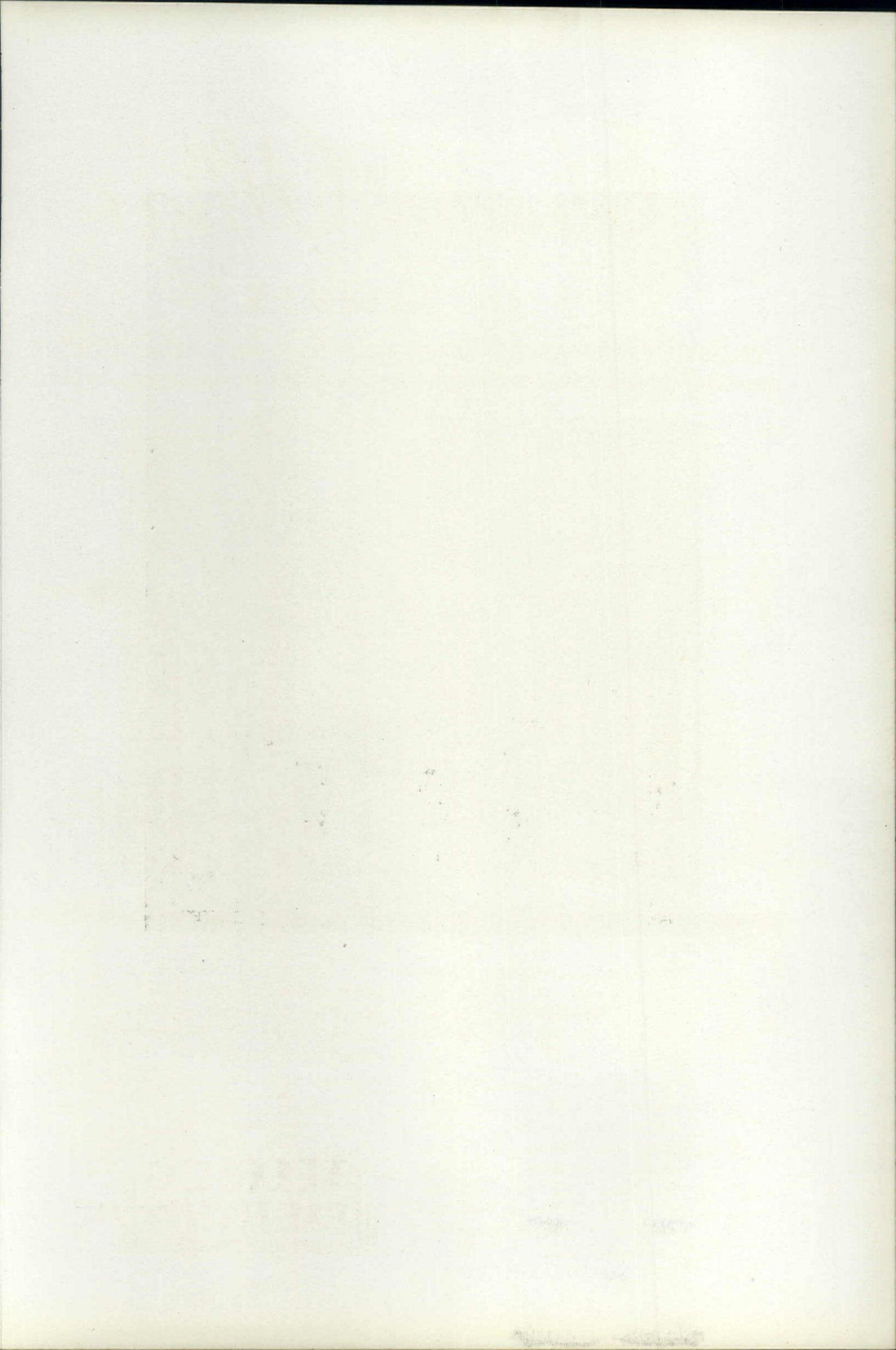
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THE MAIN LOBBY  
OF  
THE EMPIRE STATE BUILDING  
SHREVE, LAMB & HARMON, ARCHITECTS

FROM A WATER COLOR  
RENDERING BY  
J. FLOYD YEWELL

# THE ARCHITECTURAL FORUM

VOLUME LIV

NUMBER ONE

JANUARY 1931

## THE EMPIRE STATE BUILDING

SHREVE, LAMB & HARMON, ARCHITECTS

### VII. THE GENERAL DESIGN

BY

WILLIAM F. LAMB

AN interesting development in the planning of present day office buildings is the change in the conception that the architect has of his work. The day that he could sit before his drawing board and make pretty sketches of decidedly un-economic monuments to himself has gone. His scorn of things "practical" has been replaced by an intense earnestness to make practical necessities the armature upon which he moulds the form of his idea. Instead of being the intolerant æsthete, he is one of a group of experts upon whom he depends for the success of his work, for the modern large building with its complicated machinery is beyond the capacity of any one man to master, and yet he must, in order to control the disposition and arrangement of this machine, have a fairly accurate general knowledge of what it is all about. Added to this he must know how to plan his building so that it will "work" economically and produce the revenue for which his clients have made their investment.

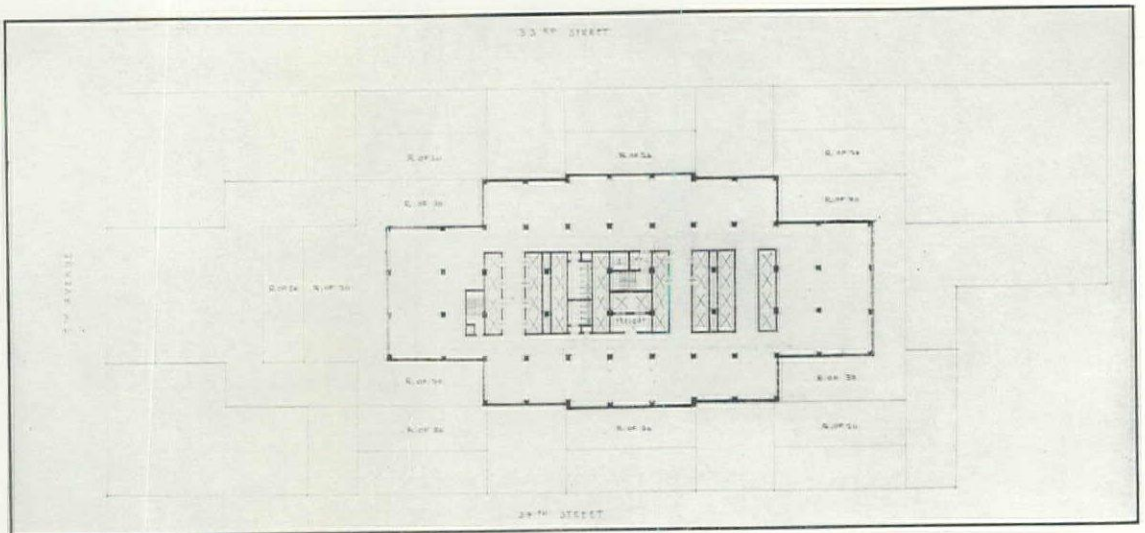
In this spirit of coöperation with experts, the builder and the engineer, the effort was made to solve the problem of the design of the Empire State. The program was short enough—a fixed budget, no space more than 28 feet from window to corridor, as many stories of such space as possible, an exterior of limestone, and completion by May 1, 1931, which meant a year and six months from the beginning of sketches. The first three of these requirements produced the mass of the building and the latter two the characteristics of its design.

IN the first sketches an effort was made to develop the plan from studies previously prepared for another owner for a 50-story building

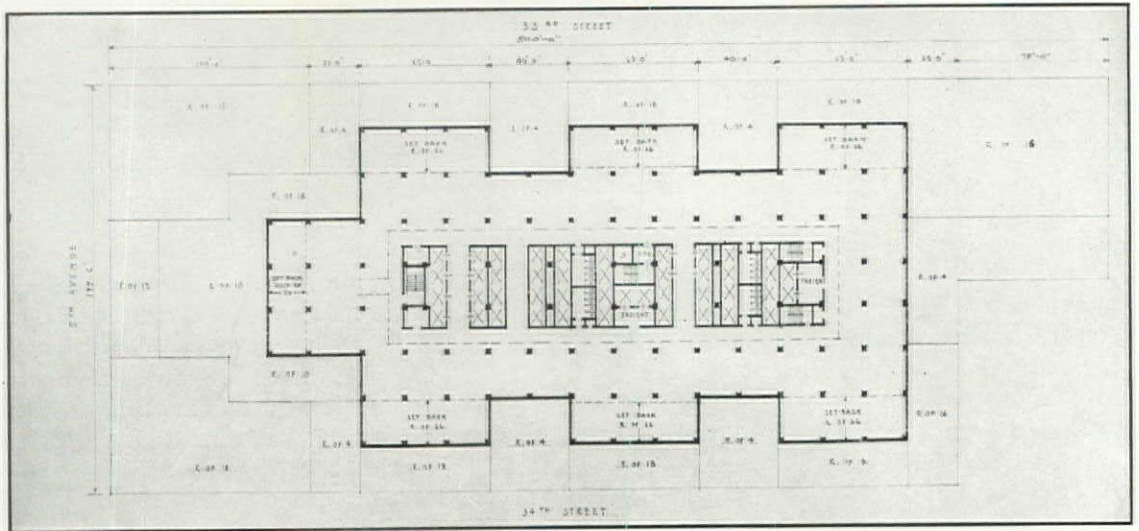
of the loft type on the same site. These sketches, Scheme J, on page 2, show the elevators placed at right angles to the main axis of the building. The elevator groups "drop off" in sequence, an arrangement which forced the tower far back from the Fifth Avenue front. The "loft" type plan was indented to introduce light into the deep space, but this idea produced many dark corners and gave too much volume for the height desired. The plan of the tower was also a relic of the previous scheme, and when additional elevators were added, there resulted a floor plan which was not capable of good subdivision. This plan was therefore abandoned.

In the meantime, a preliminary investigation was being carried on by the group of experts which had been formed to inquire into the many and difficult technical problems which had to be solved before any serious work could begin. This group included Bassett Jones for the elevators, H. G. Balcom for the steel frame, Henry C. Meyer for the heating and ventilating, and Fred Brutschy for the plumbing.

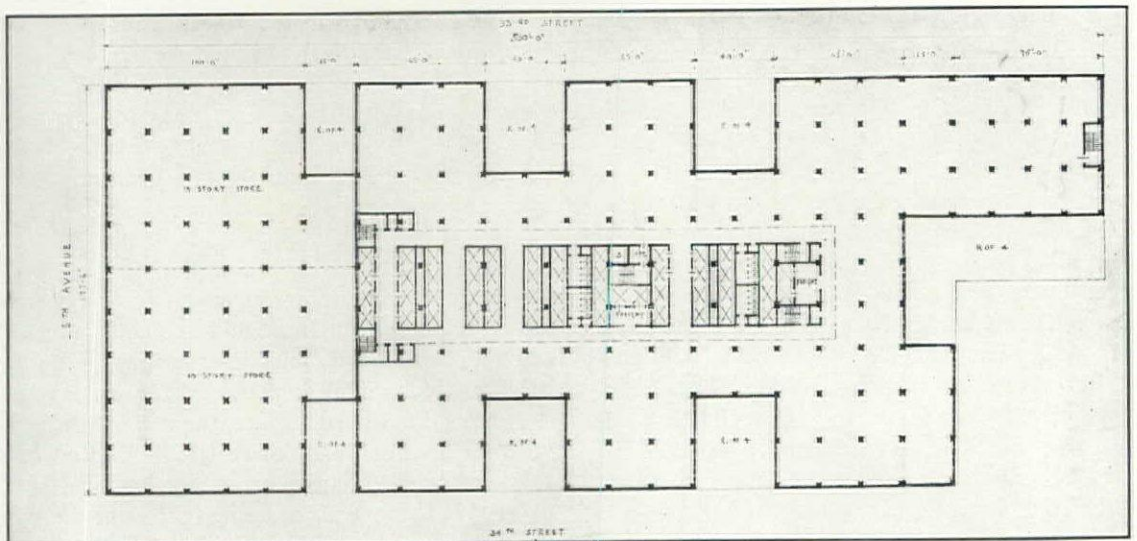
THE elevator system was one of the keys to both the general arrangement of the plan and to the height to which the building could rise. The critical point in the plans determining the number of cars which could be provided for was at about the 30th floor where, legally, the tower begins, for with the area of this floor restricted by the zoning requirements to one-quarter of the size of the property, there was a limited amount of space which could be used for "utilities" and still have adequate space to rent. Study, therefore, concentrated on this portion of the building, to find the most economical shape and arrangement of



Plan, 31st to 45th Floor

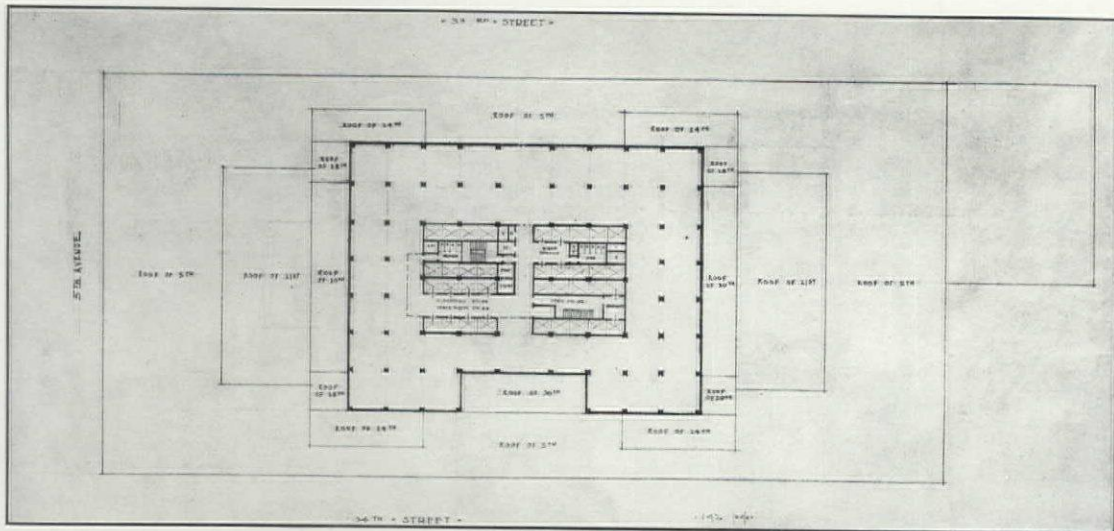


Plan, 19th to 30th Floor

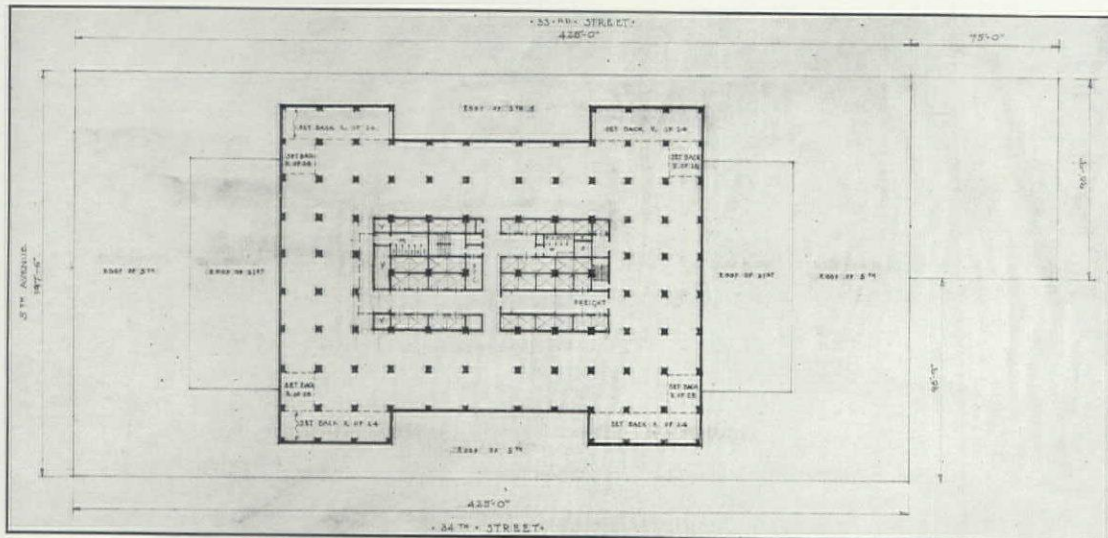


Plan, 6th to 11th Floor

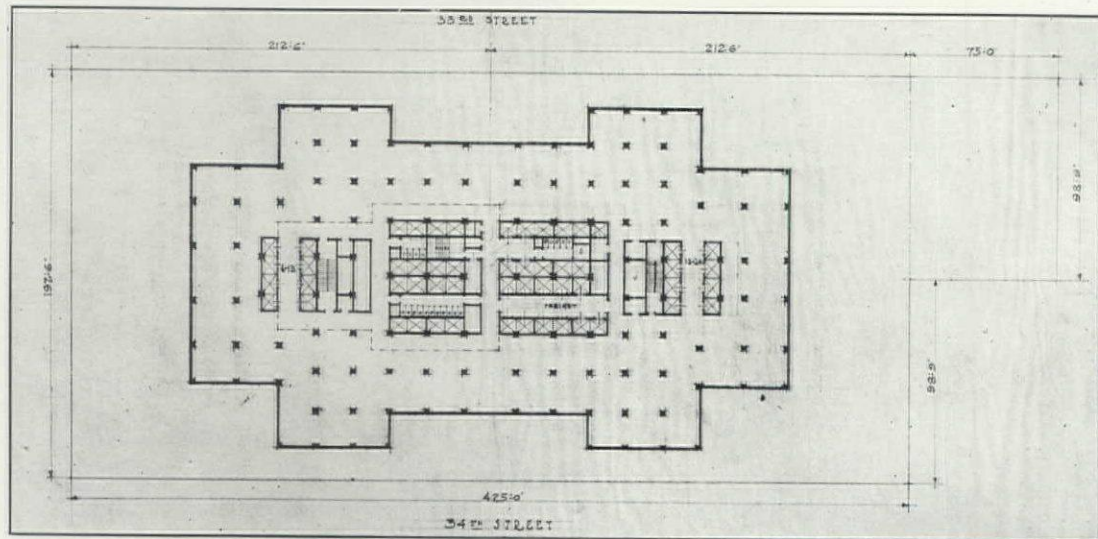
Three Typical Floor Plans of Scheme "J" Which Were Developed From Previous Sketches Made For a Loft Type Building on the Same Site



Plan, 31st to 39th Floor

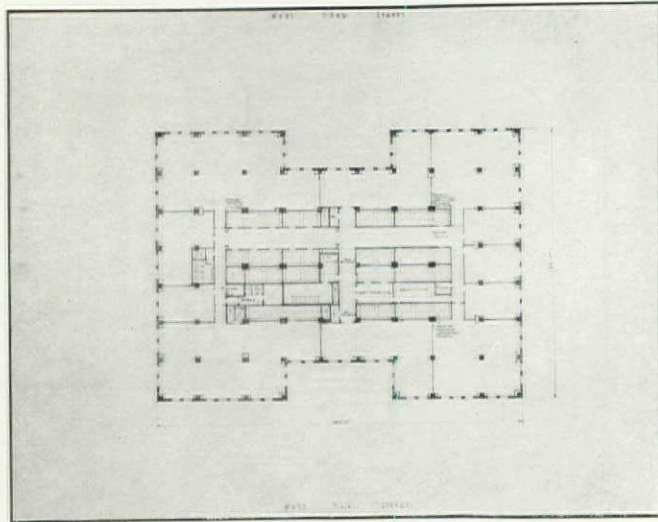


Plan, 22nd to 30th Floor

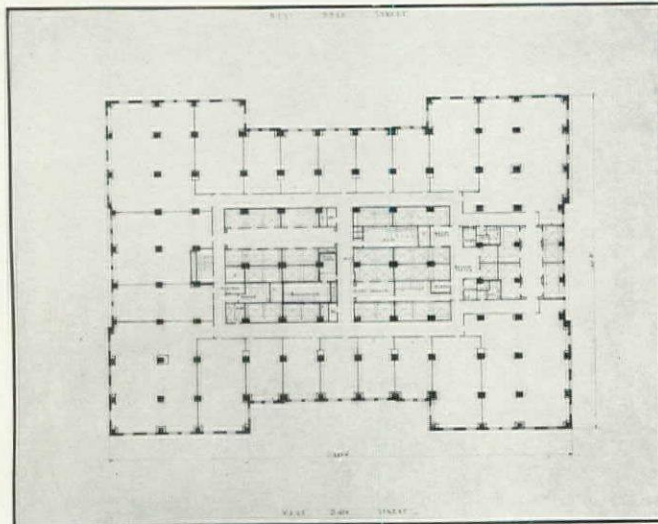


Plan, 6th to 21st Floor

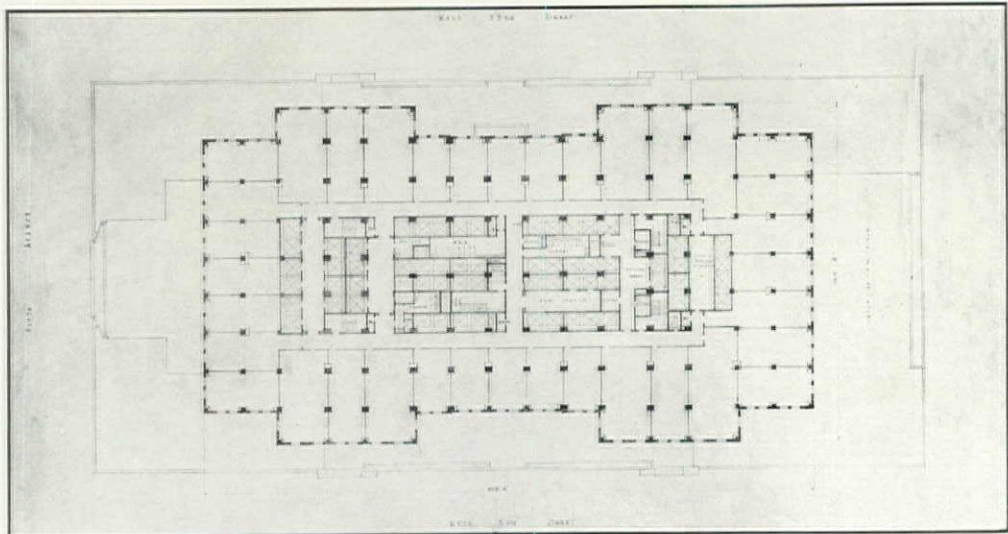
Three Corresponding Typical Plans of Scheme "K"  
Which Were Made as a Result of the Preliminary  
Study and Investigation of the Various Problems



Plan, 33rd to 40th Floor



Plan, 24th Floor



Plan, 6th and 7th Floors

Three Corresponding Typical Floor Plans of the Building as Finally Developed by the Detailed Study Put Into the Actual Working Drawings

the floor, giving at the same time the greatest number of elevators. The elevator banks were placed parallel to the main axis of the building in four groups, and the stairs, toilets and shafts were located between the unused banks. The elevator runs were studied so that these utilities could be easily transferred when the various banks came into or went out of service. This study resulted in the adoption of the principle that the form of the shaft should be much more nearly a square than that shown on the previous schemes, which also would simplify the problem of wind resistance to a large extent.

THE great height contemplated made the problem of wind bracing extremely important, especially in the narrower dimensions of the property. It was highly desirable that all the columns should in addition to carrying through vertically, also be in line horizontally in both directions, but more especially in the narrower sense, producing a complete gridiron. This principle was adhered to until it was found that the columns became so large at the bottom that they could not be placed in front of the tower elevator shafts which made it necessary to substitute two bays for three in the longer side of the tower in that portion of the building.

At the same time consultation with Mr. Meyer and with Mr. Brutschy determined in a general way the size and location of ventilation and pipe shafts which were such that they became a very important consideration in the general scheme. Conferences with the builders, Starrett Brothers & Eken, Inc., fixed the general speed program and types of building construction.

The principles, established by these coöperative investigations, which covered a period of four weeks, together with the owner's requirements, now formed the complete program. The "parti" was arrived at in two hours, the evening before a meeting of the owner's corporation. An all-night "charette" produced the next day a series of five or six of the essential plans, an elevation, a perspective, and a fairly accurate tabulation of rentable areas and cube. It is interesting to compare these plans shown on page 3 with the corresponding plans after they had been worked out in detail.

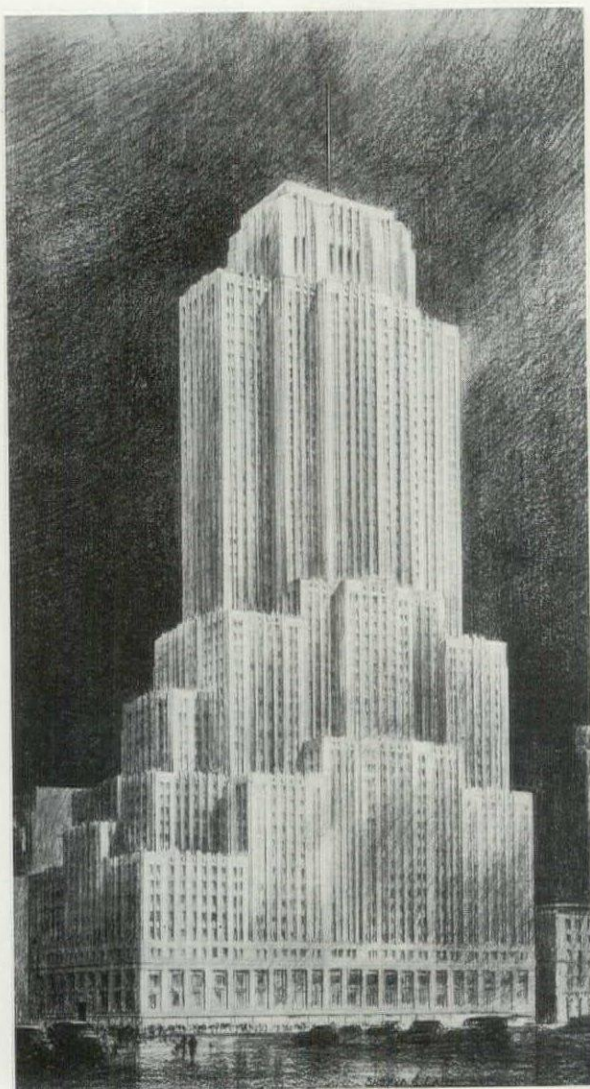
THE logic of the plan is very simple. A certain amount of space in the center, arranged as compactly as possible, contains the vertical circulation, toilets, shafts and corridors. Surrounding this is a perimeter of office space 28 feet deep. The sizes of the floors diminish as the elevators decrease in number. In essence there is a pyramid of non-rentable space surrounded by a greater pyramid of rentable space, a principle modified

of course by practical consideration of construction and elevator operation. The four groups of high-rise elevators are placed in the center of the building with the low-rise groups adjoining on the east and west sides so that as these drop off, the building steps back from the long dimension of the property to approach the square form of the shaft, with the result that instead of being a tower, set upon a series of diminishing setbacks prescribed by the zoning law, the building becomes all tower rising from a great five-story base.

While these sketches fixed the general mass of the building, its height had not yet been fully determined. Two very important factors were to make this decision, elevators and budget. Mr. Jones, therefore, commenced an accurate determination of the elevators which he could now do with the sketch plans and the floor by floor areas, and Starrett Brothers & Eken, Inc., for the purpose of determining how high the building might be carried within the budget, made a careful approximate estimate based on these same sketches and an outline specification. It was a coincidence that both arrived at a limit of 80 stories, plus five floors of pent house.

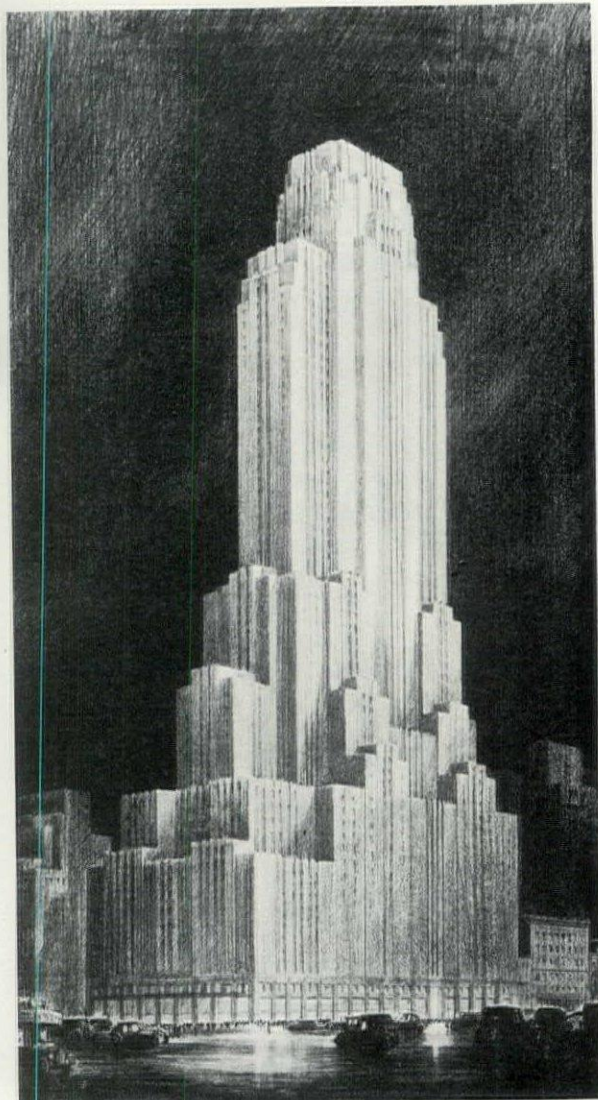
AT this point, with the general plan and the mass of the building determined, there entered the last and perhaps the most important item in the owner's program—speed of construction. The development of the window and spandrel detail described in Mr. Shreve's article in the July, 1930, FORUM, although it was worked out through an ardent desire to get rid of reveals, inadequate and useless in a building of such height, was the solution of the problem of the rapid building of the limestone walls, and the scheme of the vertical strips and mullions of polished steel, which give the building its characteristic appearance, was evolved to effect, in a simple manner, a proper junction between wall and window. The elimination of all shelf angles and other special steel supports for the stone piers made it possible to prepare the steel drawings and proceed with fabrication before the design and fenestration of the exterior were determined in detail, giving an opportunity to study the window treatment with great care, many small scale models being made in an effort to visualize what the effect would be. These studies proved the necessity (if the time schedule didn't) of handling the stone work with utmost simplicity so that it would become merely a background for the applied metal and glass. It was only in the lower stories that some detail was introduced in the pier caps and the flanking half columns of the main entrance.

It would be interesting to speculate on the in-



First Sketches of the "Loft" Type Building Originally Planned for This Site. The Maximum Amount of Floor Area Permitted Under the Zoning Resolution Was Obtained in the Lower Part of the Building With No Light Courts Provided. The Tower, which Provided Office Space, Was Comparatively Small

*Photos. Peter A. Juley & Son*

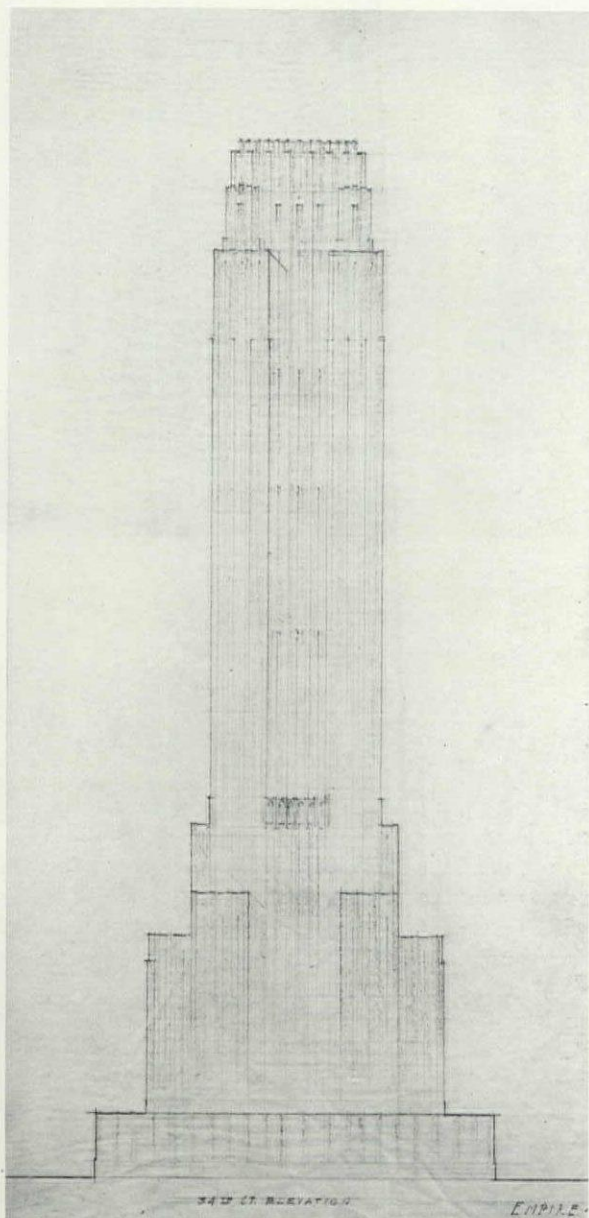
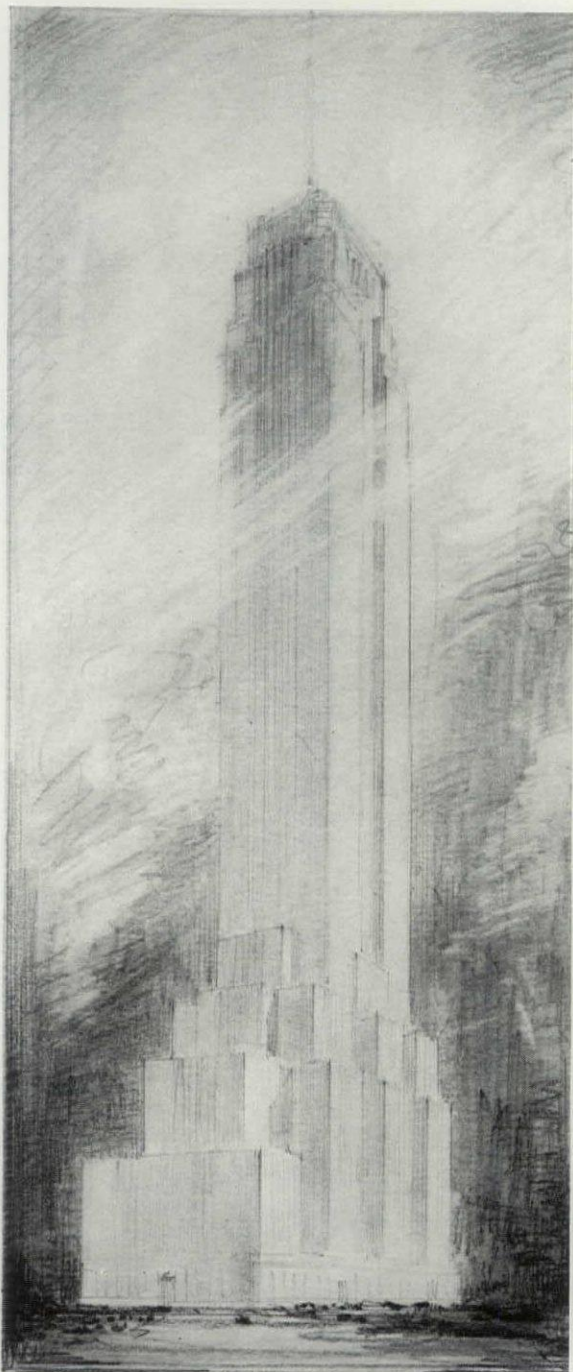


fluence this speed program had upon the design. Hardly a detail was issued without having been thoroughly analyzed by the builders and their experts and adjusted and changed to meet every foreseen delay. Choice of interior marbles was limited to those which could be obtained in time to be fabricated and set, and men were sent to the quarries abroad to get this information first hand. Rose Famosa and Estrallante were selected for the great entrance halls—ten thousand square feet of marble devoid of detail, depending for the effect entirely on their highly interesting color and veining, with 300,000 square feet of Hauteville and Rocheron for the elevator lobbies and corridors on the office floors—quantity production—sawn, "coped" and polished.

AS far as possible hand work was done away with, for in quantity production with thousands of pieces of each material identical in shape and size, the delay would have been disastrous. Windows, spandrels, steel mullions and

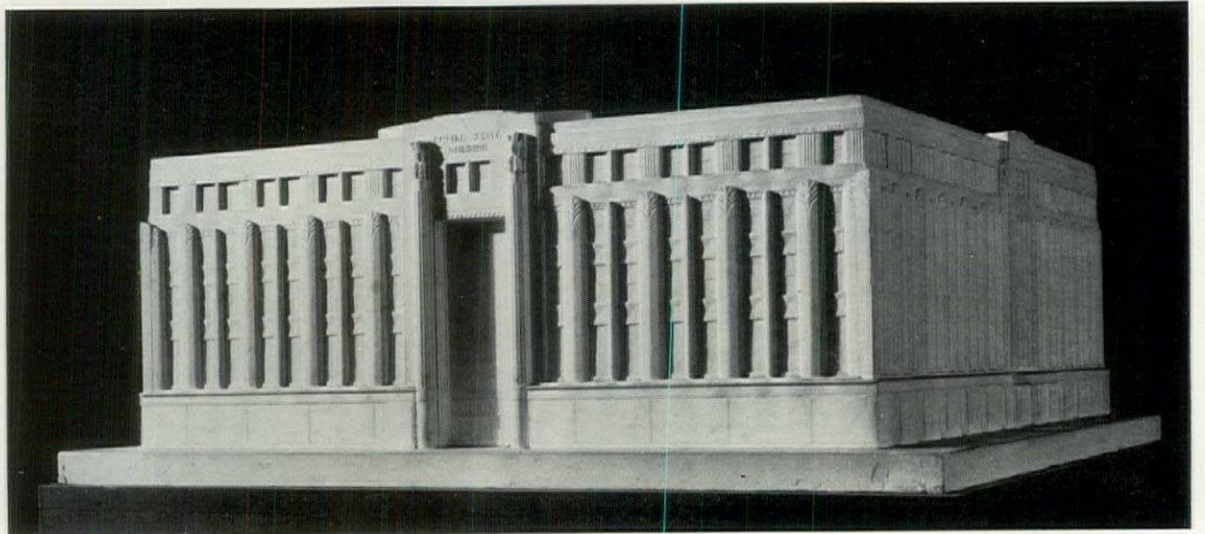


Scheme "J" Perspective (Below) Showing Introduction of Light Courts, Increased Height of Tower, and "Loft" to "Office" Type Transition. First Study of Scheme "K" Elevation (Right) Which Fixed Mass and Proportions, Doing Away With Deep Space by Surrounding the "Core" of Utilities by 28-Foot Office Space

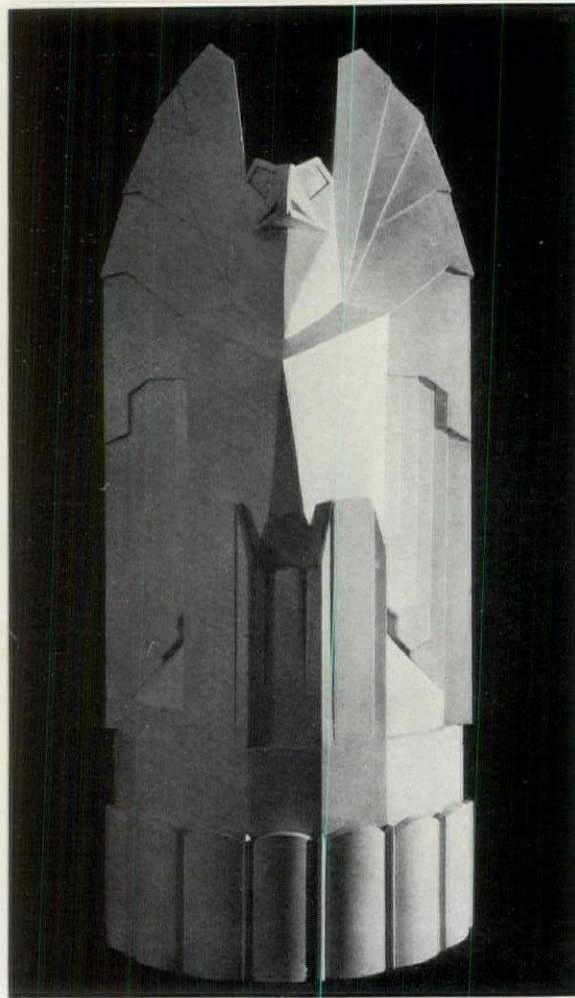


stone, all fabricated in various parts of the country, were designed so that they could be duplicated in tremendous quantity with almost perfect accuracy and brought to the building and put together almost like an automobile on the assembly line. The limestone ashlar was made in such dimensions that it could be handled on ordinary material hoists within the building and trundled by baggage trucks to the perimeter of the floor and from there dropped by cable into its place in the wall between the steel jamb pieces already set.

The adaptation of the design to conditions of use, construction and speed of erection has been kept to the fore throughout the development of the drawings of Empire State. Whatever "style" it may be is the result of a logical and simple answer to the problems set by the economic and technical demands of this unprecedented program.



*Photos. Peter A. Juley & Son*



Models For the Empire State Building  
Shreve, Lamb & Harmon, Architects  
(Top) The Five-Story Base; (Below) One of the Pier Caps

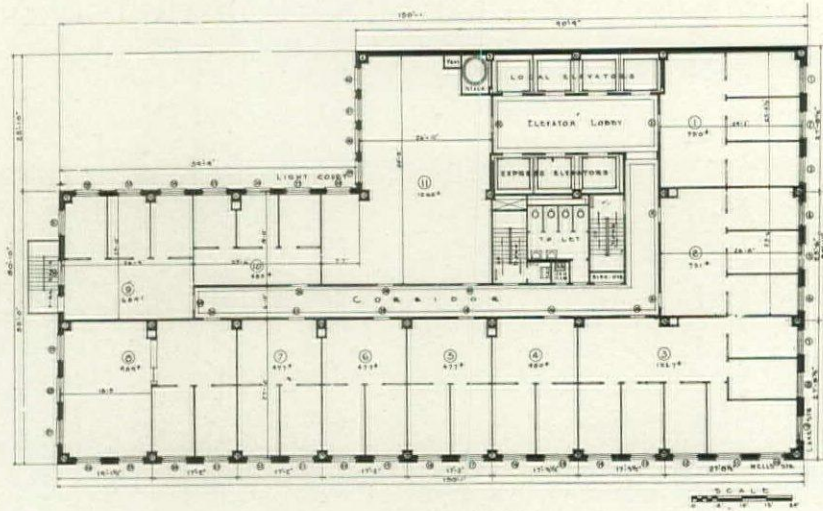
# TRUSTEES SYSTEM SERVICE BUILDING CHICAGO



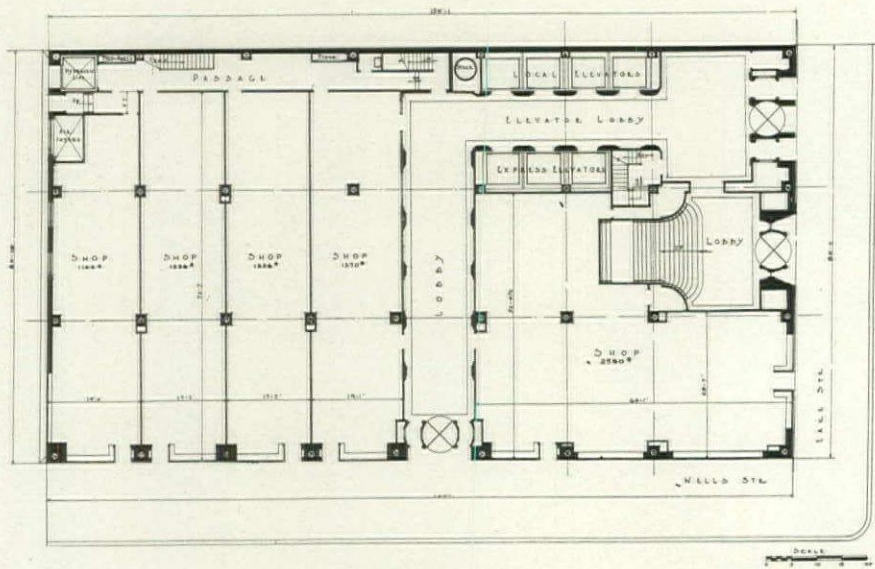
*Trowbridge*

FROM SOUTHWEST

THIELBAR & FUGARD  
ARCHITECTS



PLAN, 4TH TO 17TH FLOOR



FIRST FLOOR PLAN



TRUSTEES SYSTEM SERVICE BUILDING  
 CHICAGO  
 THIELBAR & FUGARD  
 ARCHITECTS

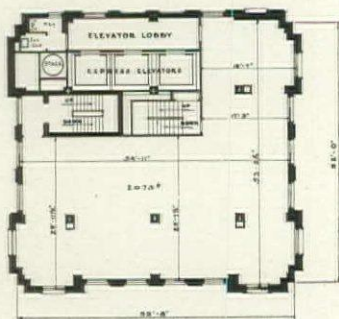




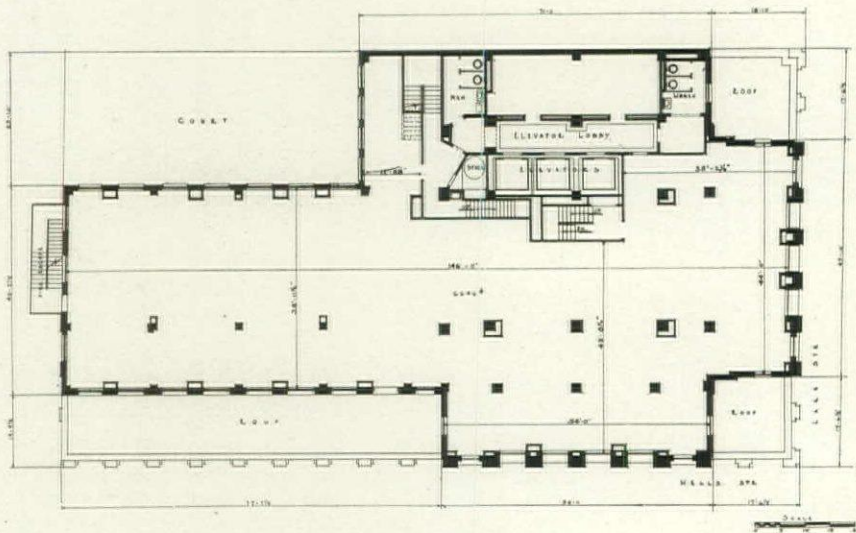
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MAIN ENTRANCE

TRUSTEES SYSTEM SERVICE BUILDING  
CHICAGO THIELBAR & FUGARD, ARCHITECTS



PLAN, 24TH TO 26TH FLOOR



PLAN, 21ST FLOOR



TRUSTEES SYSTEM SERVICE BUILDING  
 CHICAGO  
 THIELBAR & FUGARD  
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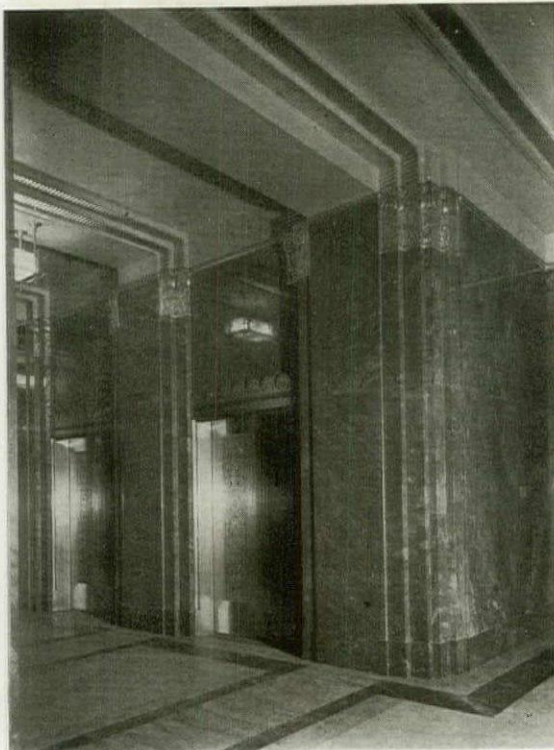
ENTRANCE FROM THE LOBBY

TRUSTEES SYSTEM SERVICE BUILDING  
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*Trowbridge*

MAIN BANKING ROOM



*Trowbridge*

ELEVATOR LOBBY

TRUSTEES SYSTEM SERVICE BUILDING  
CHICAGO THIELBAR & FUGARD, ARCHITECTS





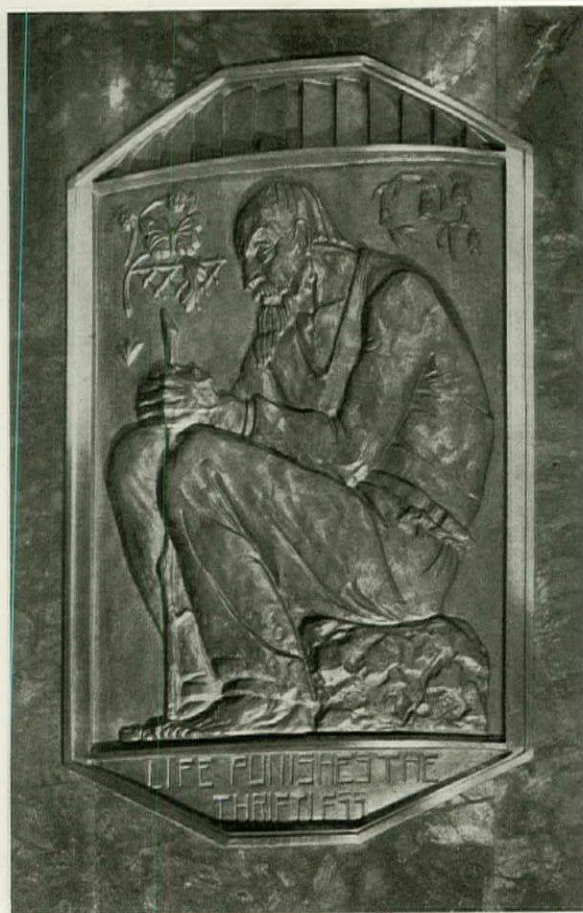
*Trowbridge*

STAIRS TO BANKING QUARTERS

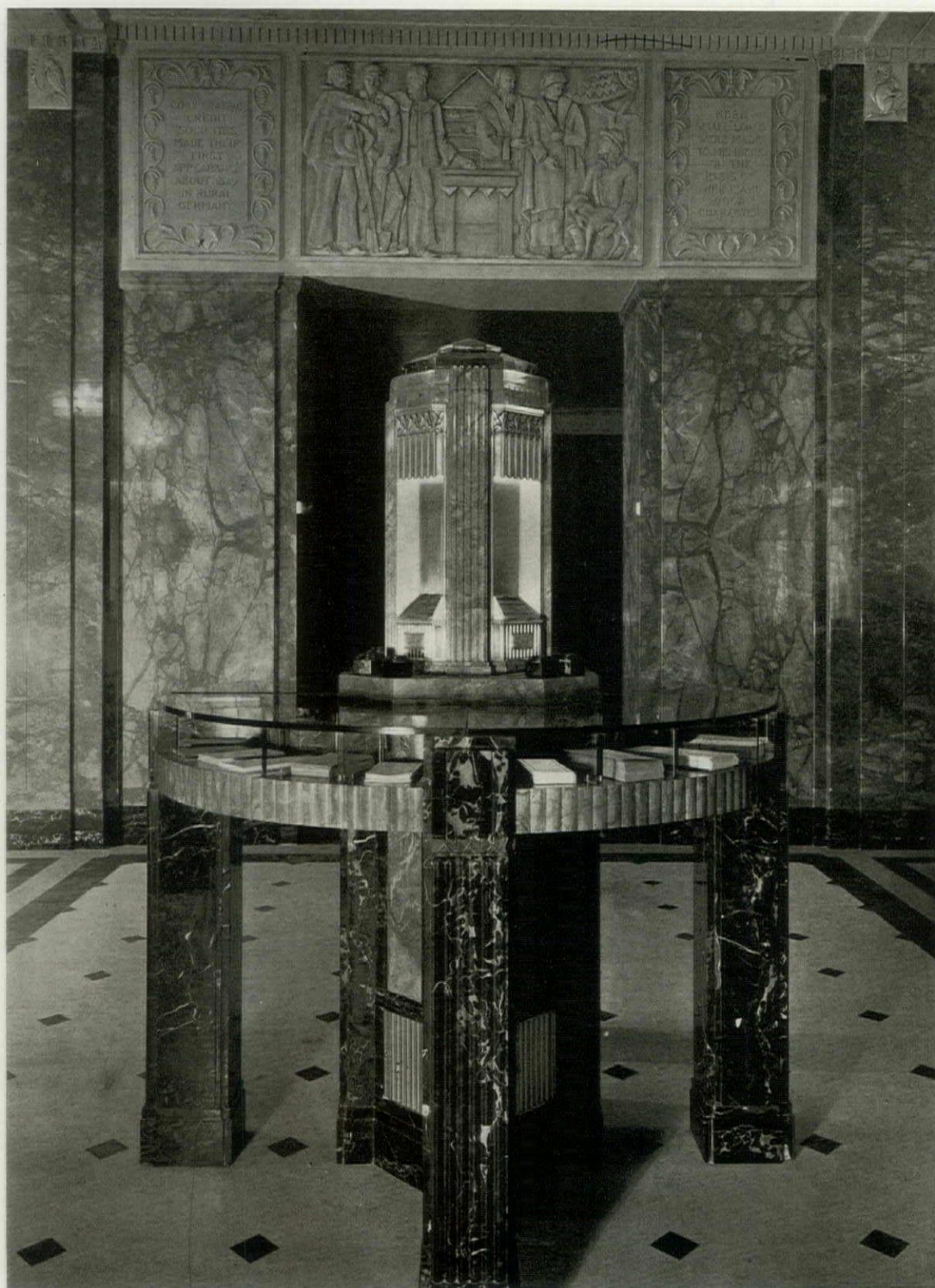
TRUSTEES SYSTEM SERVICE BUILDING  
CHICAGO THIELBAR & FUGARD, ARCHITECTS



*Photos by Trowbridge*



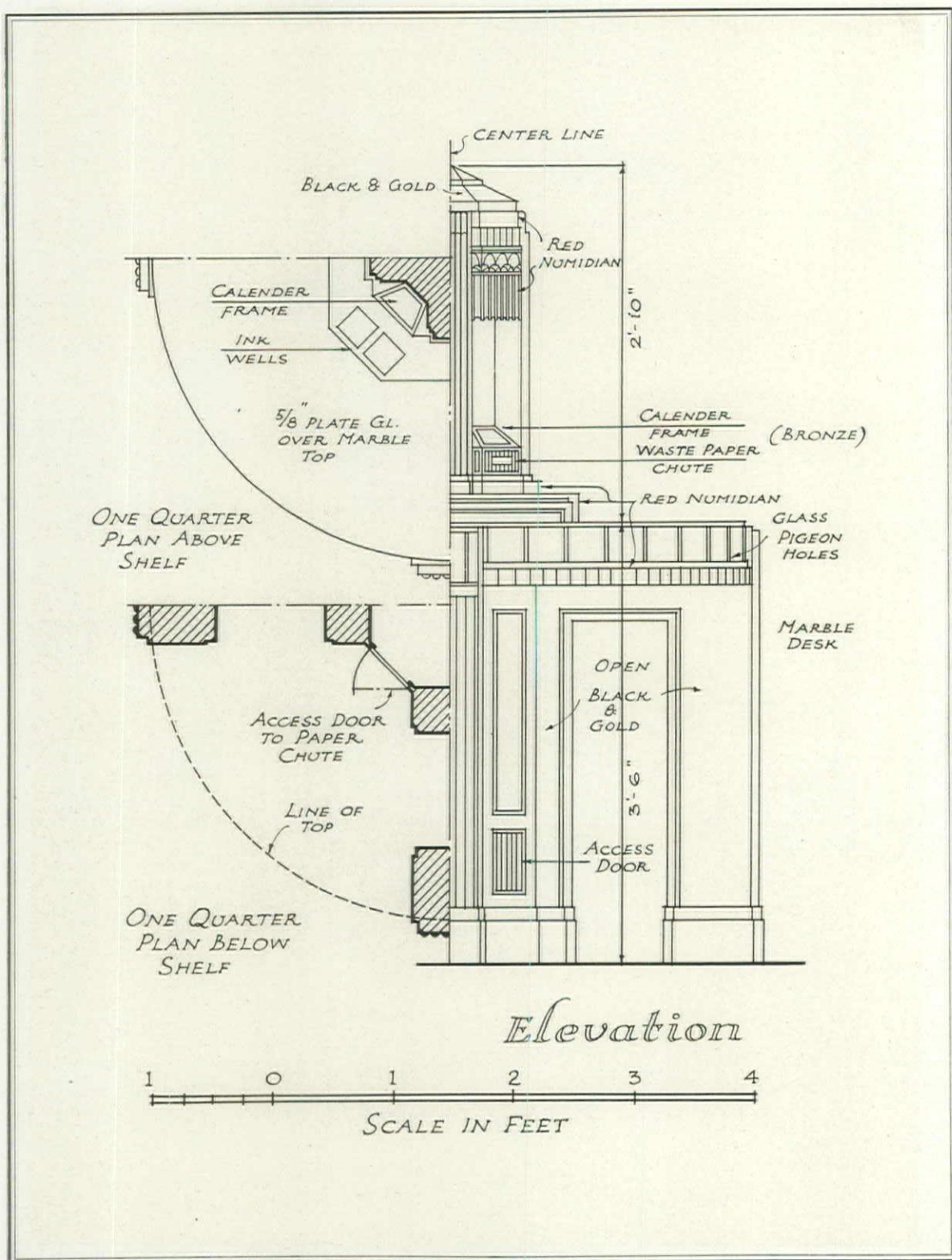
TRUSTEES SYSTEM SERVICE BUILDING  
CHICAGO THIELBAR & FUGARD, ARCHITECTS



*Trowbridge*

CHECK DESK

TRUSTEES SYSTEM SERVICE BUILDING  
CHICAGO THIELBAR & FUGARD, ARCHITECTS



DETAIL OF CHECK DESK

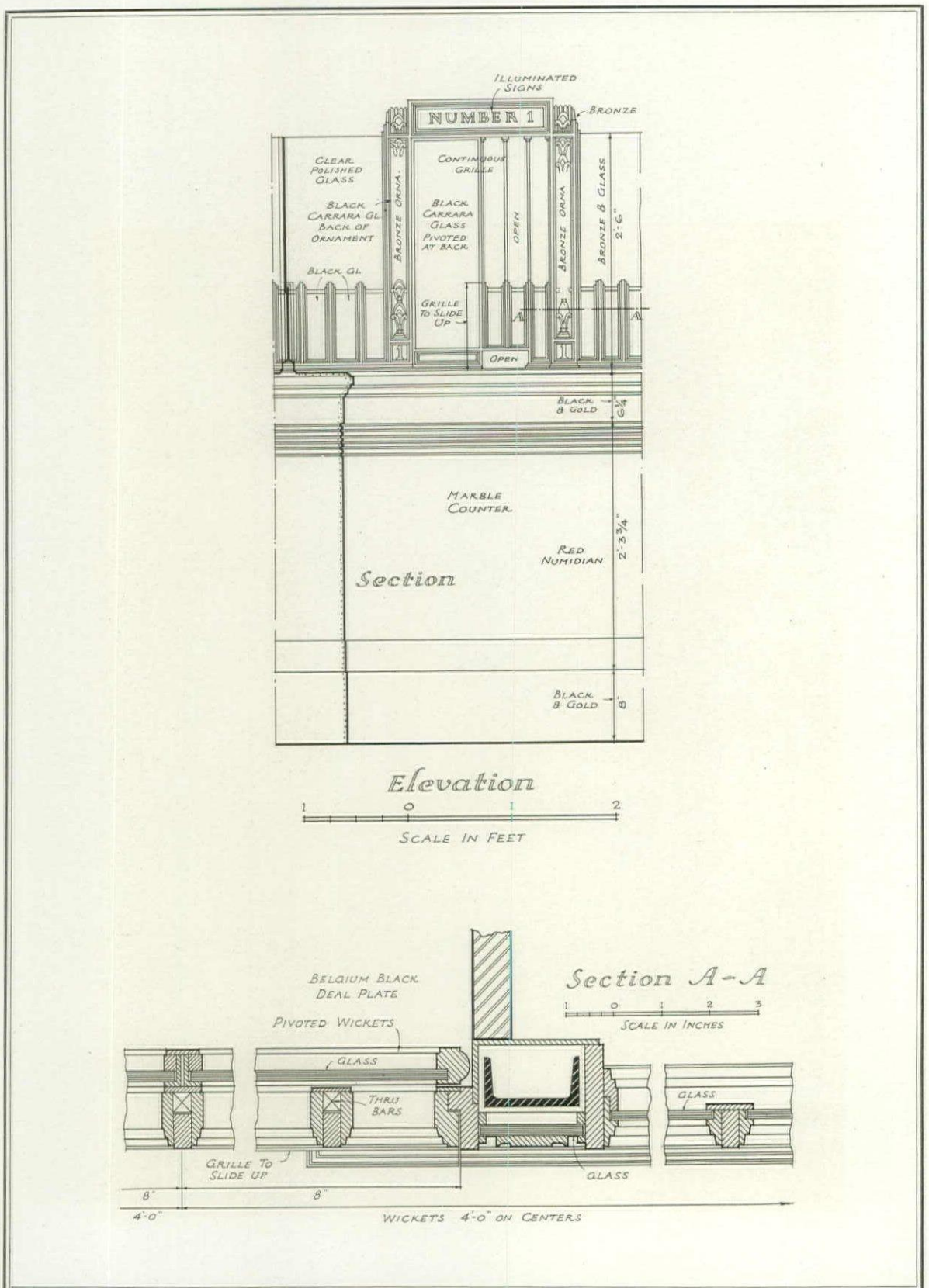
TRUSTEES SYSTEM SERVICE BUILDING  
CHICAGO THIELBAR & FUGARD, ARCHITECTS



*Trowbridge*

NORTH END, BANKING ROOM

TRUSTEES SYSTEM SERVICE BUILDING  
CHICAGO THIELBAR & FUGARD, ARCHITECTS



DETAIL OF BANK SCREEN AND WICKET

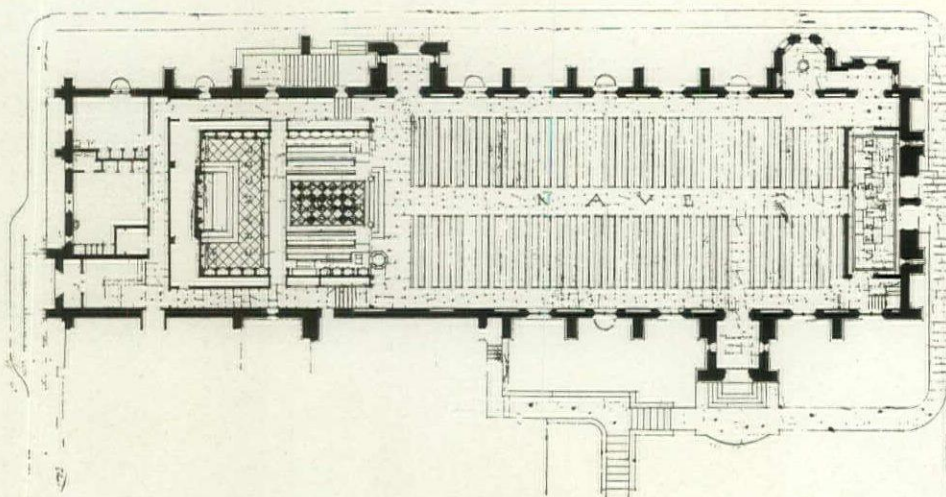
TRUSTEES SYSTEM SERVICE BUILDING  
CHICAGO THIELBAR & FUGARD, ARCHITECTS

ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.



*Sigurd Fischer*

ZANTZINGER, BORIE & MEDARY  
ARCHITECTS

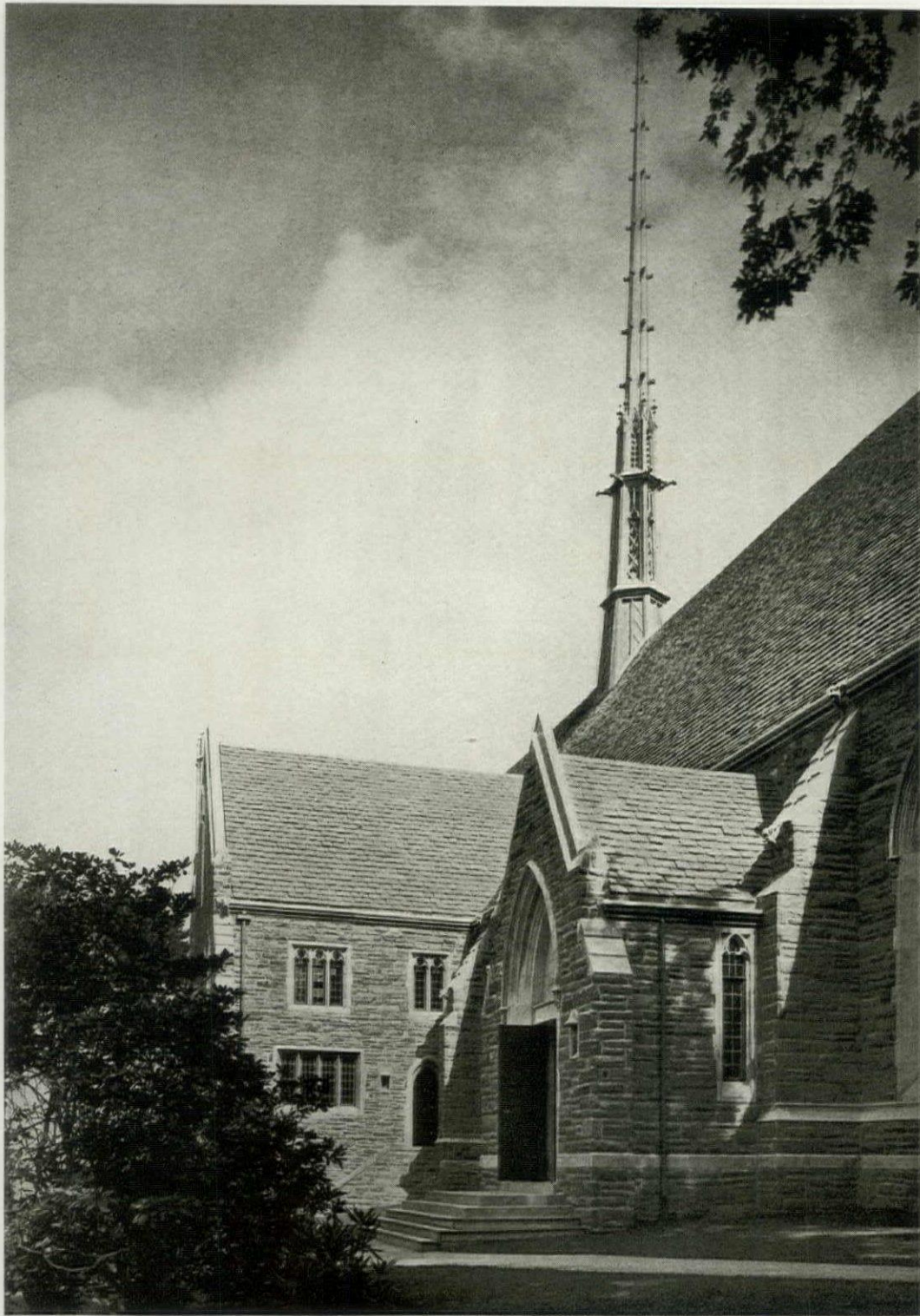


PLAN OF NAVE AND CHOIR

ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.

ZANTZINGER, BORIE & MEDARY  
ARCHITECTS

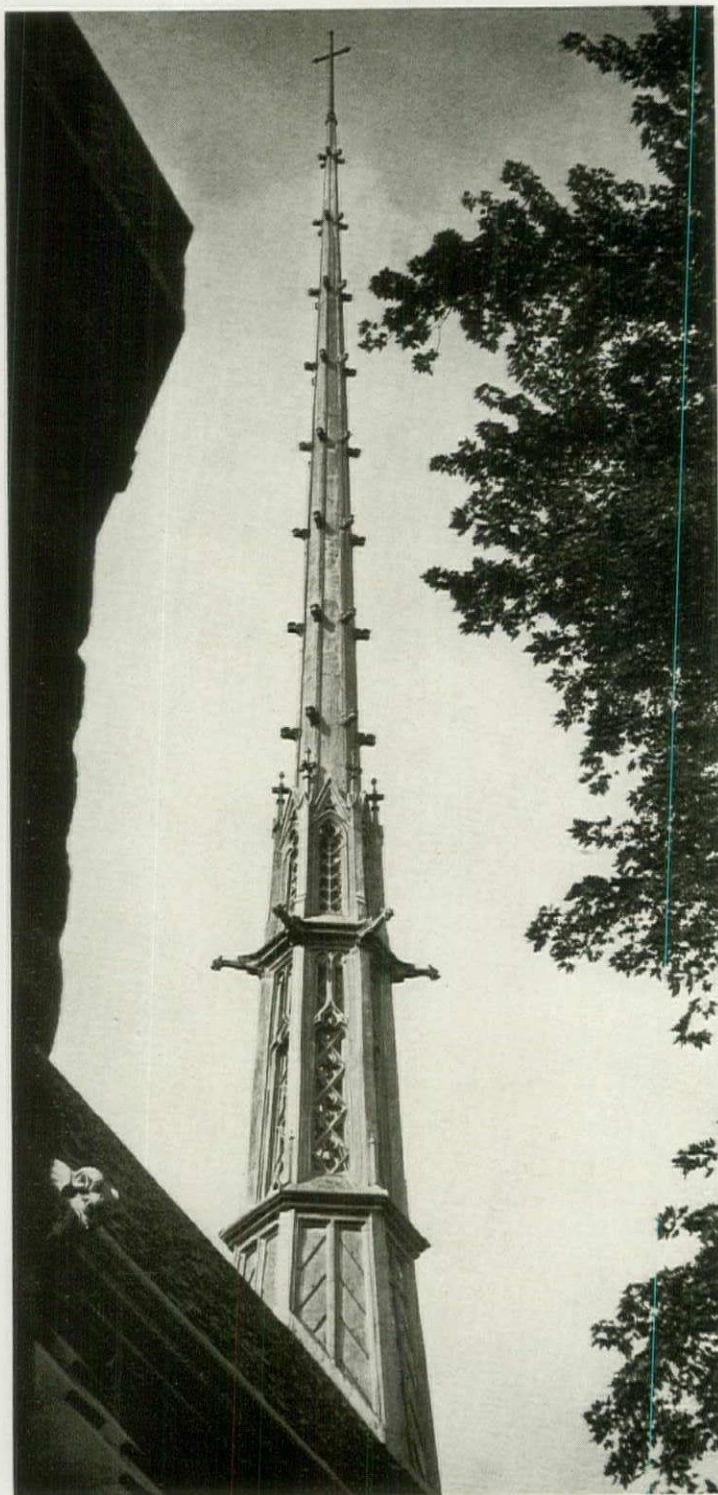




*Sigurd Fischer*

VIEW FROM NORTHWEST

ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS



*Sigurd Fischer*

THE FLECHE

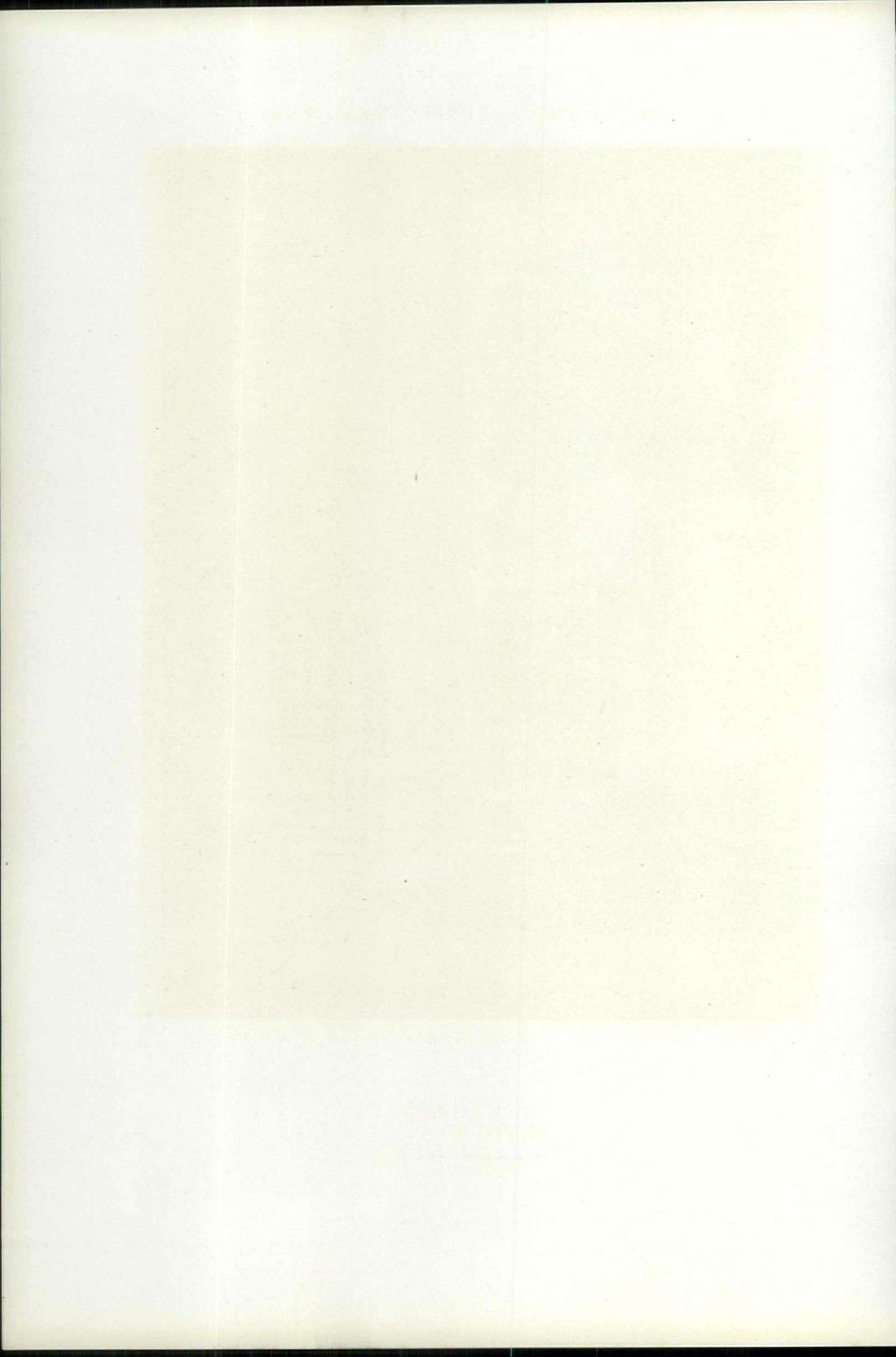
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CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS

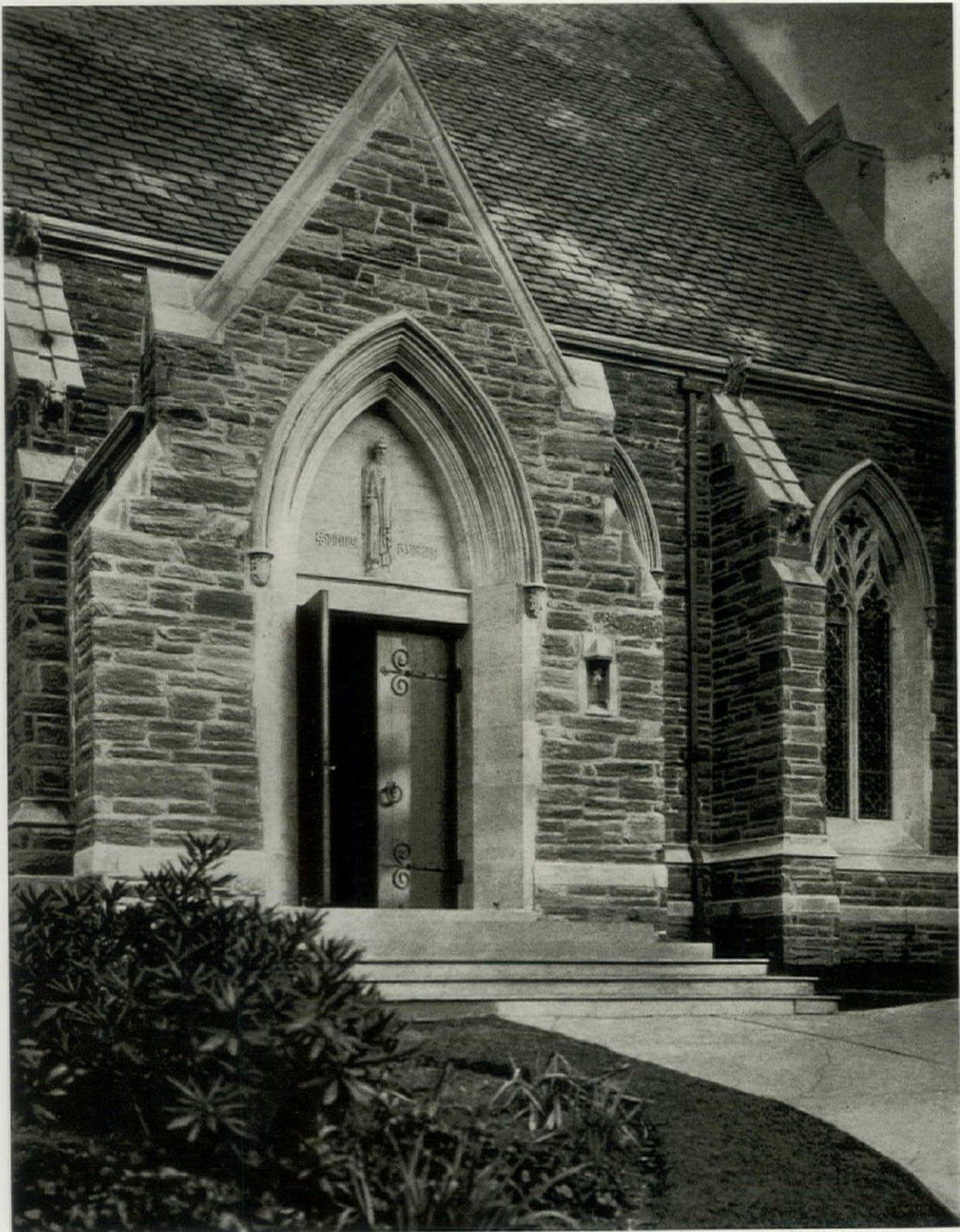


*Sigurd Fischer*

VIEW FROM THE ROAD

ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS

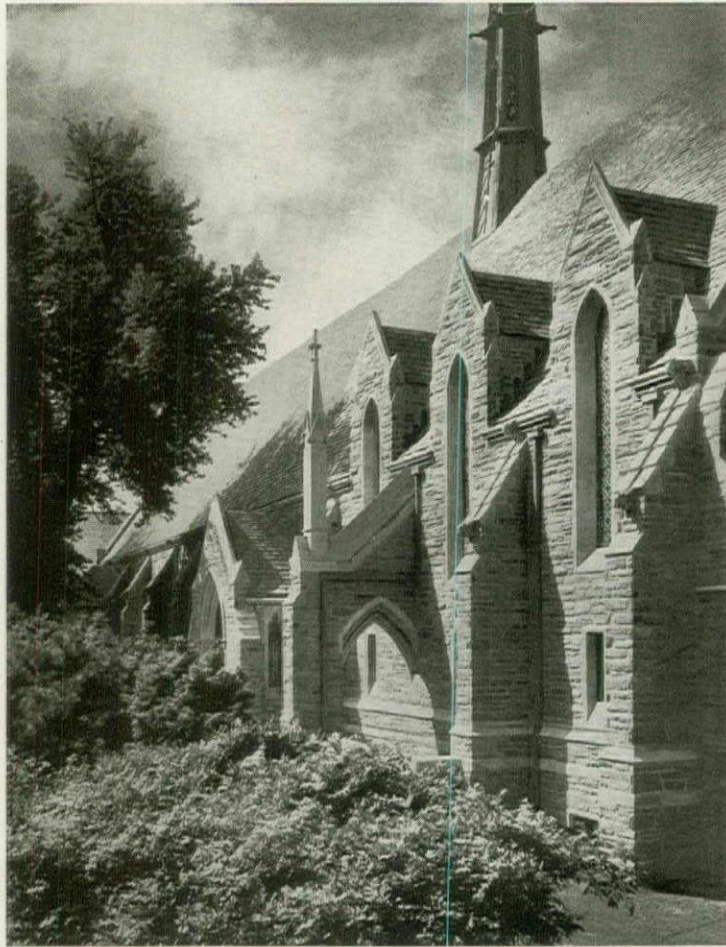




*Sigurd Fischer*

NORTH ENTRANCE

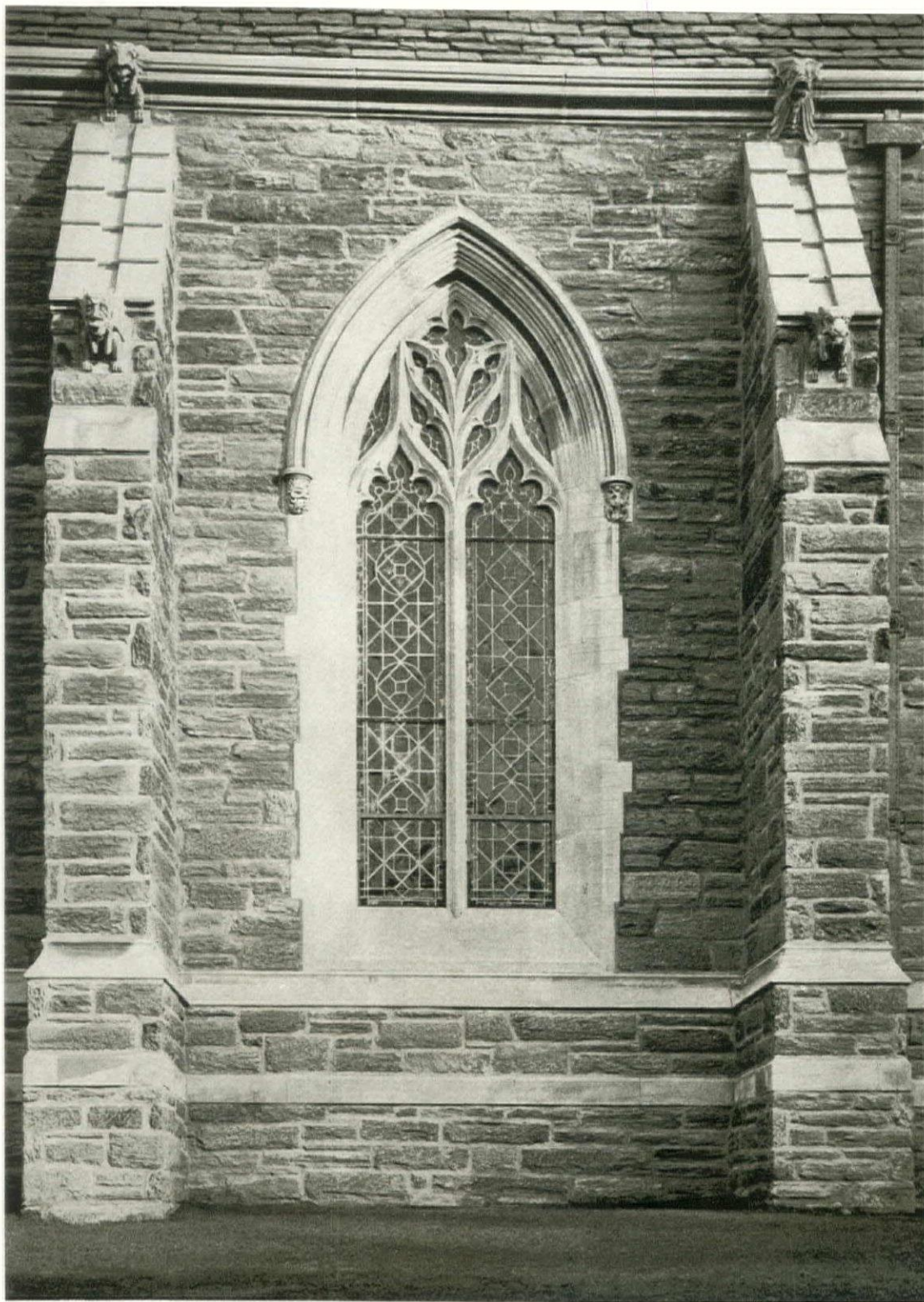
ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS



*Sigurd Fischer*

BUTTRESSES

ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS



*Sigurd Fischer*

WINDOW DETAIL

ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS



*Sigurd Fischer*

BUTTRESS AND GARGOYLE

ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE  
& MEDARY, ARCHITECTS





*Sigurd Fischer*

NAVE

ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS

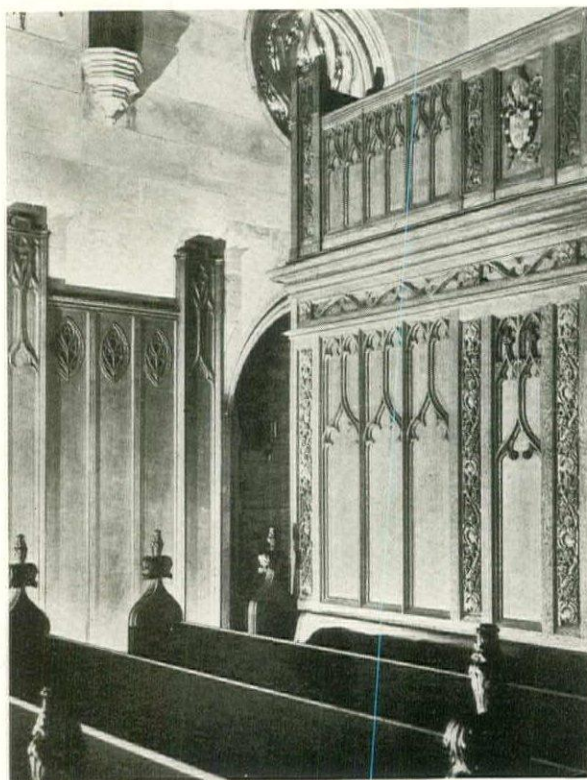




*Sigurd Fischer*

ALTAR

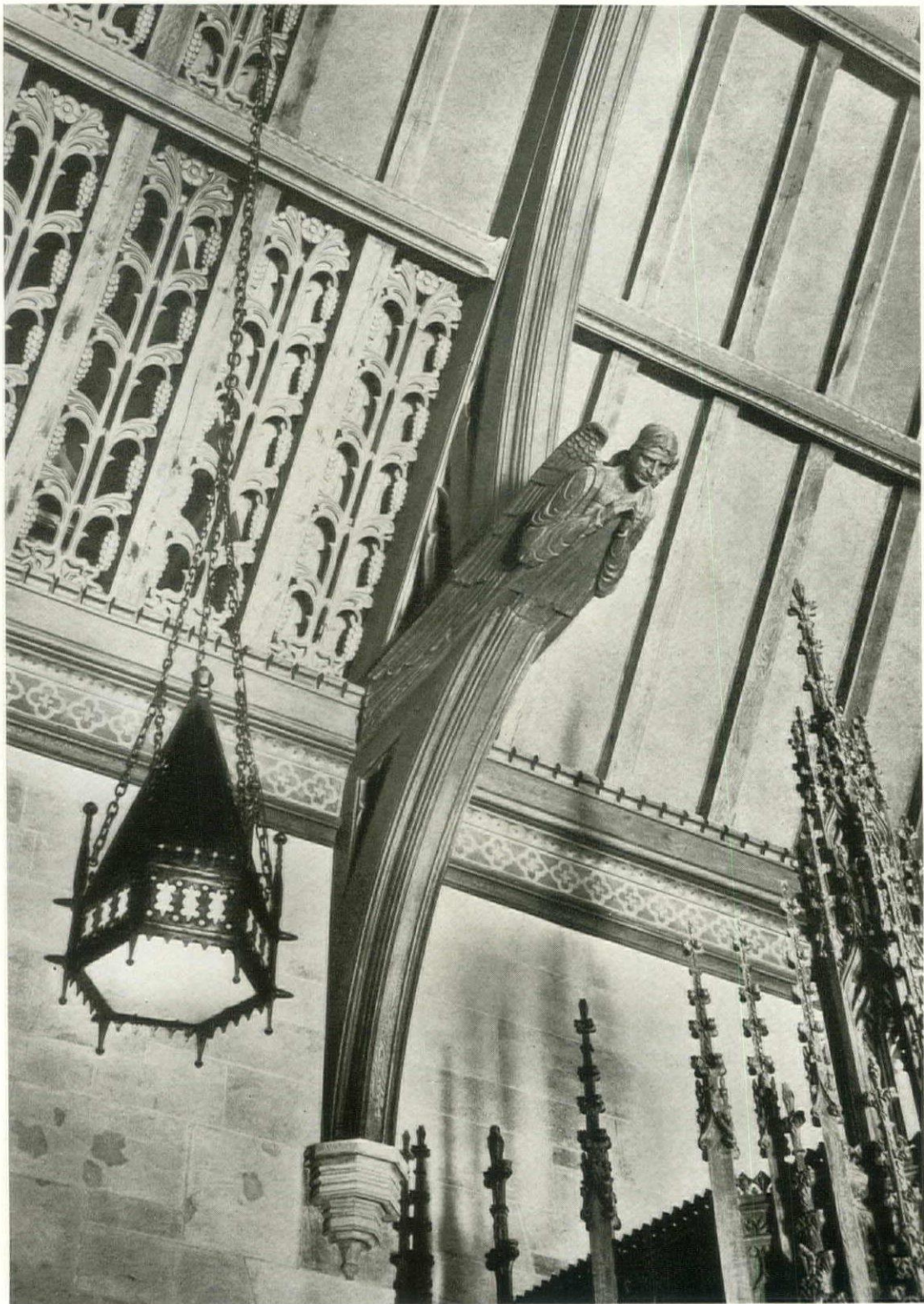
ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS



*Sigurd Fischer*

ORGAN LOFT AND PEWS

ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS



*Sigurd Fischer*

CARVING OF HAMMER BEAM AND CEILING

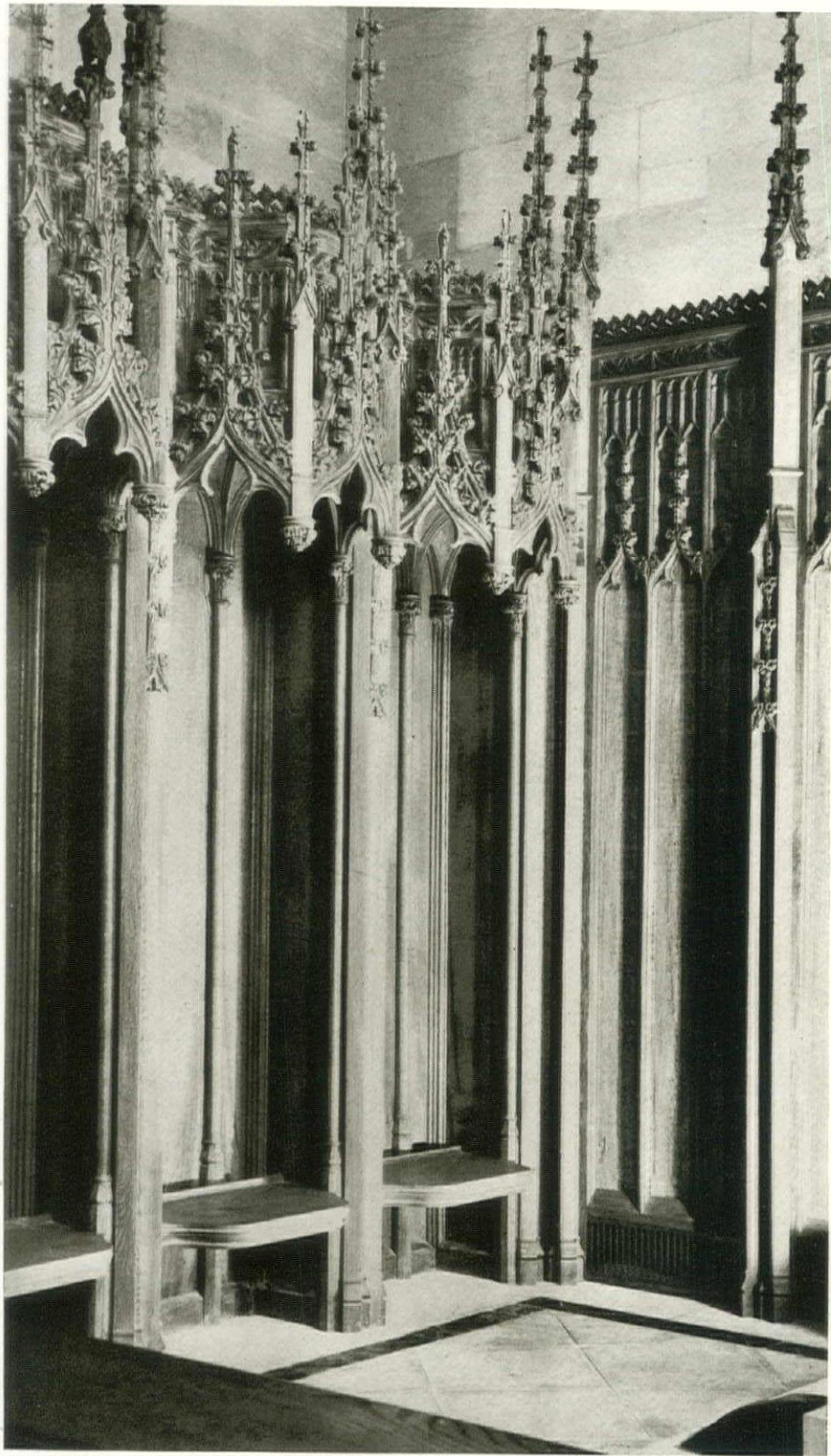
ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS



*Sigurd Fischer*

CHOIR STALLS

ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS



*Sigurd Fischer*

MISERERES

ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS





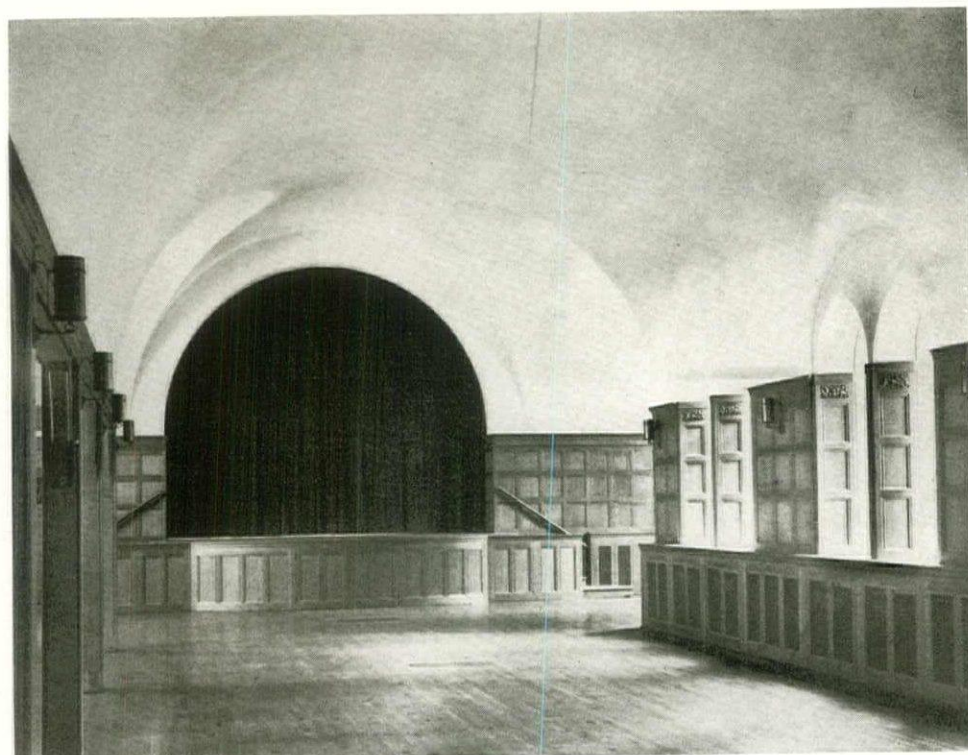


*Sigurd Fischer*

PULPIT  
ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS

*Sigurd Fischer*

GUILD ROOM

*Sigurd Fischer*

SUNDAY SCHOOL ROOM

ST. PAUL'S CHURCH  
CHESTNUT HILL, PA.  
ZANTZINGER, BORIE & MEDARY  
ARCHITECTS



# EDITORIAL

## POLICY AND OPINION



ALSO A.D. 1931

THE annual forecast of architectural and building activity, published on pages 89 to 94 of this issue, is somewhat optimistic in tone. Once again, the importance to the architect of a knowledge of economics and financial arrangements is evident, since the amount of building, and therefore of architectural prosperity, is dependent on available funds,—easier and more plentiful financing meaning more work for the architect. Other things being equal, the architects who are equipped to aid clients to obtain money for building, both through financial knowledge and financial contacts, are in the strongest position to go ahead with their work. Those who have not these assets, nor clients with ready cash, may have time to use in introspection.

It becomes more and more apparent that the practice of architecture has become a business and that the successful conduct of that business demands more than the ability to plan and design (though that is the prime essential); it requires an organization equipped with knowledge and ability in engineering and business. The ARCHITECTURAL FORUM recognizes this complexity of architectural practice today and has established a program for 1931 that is both comprehensive and directly related to types of work that will be done by architects throughout the coming year.

### OUR OBJECTIVE

THERE is something in the effect of the calendar that cannot be accounted for by astronomical calculations,—something more than the mere recording of the passage of a unit of time. We just as logically begin a new year each and every day as on the one that has been singled out arbitrarily,—yet at this time we feel that now we are beginning afresh. Through that helpful quirk in the mind that takes advantage of this “calendar accident,” we rid ourselves of much that held us too close to the immediate, and look backward with a saner perspective, and forward with keener perception.

It is a time when we may well consider our main objective, the one thing we are all working toward,—Good Architecture, the fine art of building to meet human needs, both physical and psychological. Architecture implies more than comfort or mechanical efficiency if it is a fine art. It demands that a building be aesthetically satisfying as well as functionally efficient and economically

sound. The emphasis now placed on the latter qualities is salutary, for they are basic. Too often we have thought of appearances without consideration of uses; too often we have “designed” with little thought of the construction or the economics.

FUNCTIONALISM is the basis of good architecture to day as it has always been,—the basis, but not the whole. Considerations of scale, proportion, balance, rhythm, color cannot be neglected in our worthy efforts to make our buildings “function.” Rather, they are necessary elements in *complete* functioning. Ugliness and crudity may mark some attempts at “mechanistic” efficiency in building, but they are not at all necessarily attributes. More perfect solutions will satisfy the whole man, his need for beauty, his desire for certain right relations of line, form, color, proportions of spaces and masses.

Good Architecture demands the continuation of emphasis on the *quality* of materials and workmanship and on the careful selection of the right material for the use which it is to serve. It also requires the development of new materials and new uses of available materials. The architect's creative imagination is as necessary in connection with this phase as in the development of pleasing forms.

THE great danger in our current emphasis on economics, mechanical efficiency, materials and methods is that they may become ends in themselves. Above all, human relationships, man's needs and desires, must be paramount in our thinking. All other factors must be subservient and contributory. Good Architecture is humanized,—not merely mechanized, for the sociological and psychological aspects of each building are of prime importance. Fundamentally, architecture is the art of enclosing space and providing facilities for various human activities in such a way that they contribute not only to physical wellbeing but to the finer sensibilities. If we will keep the fundamentals constantly before us during the coming year, it will be reflected in the quality and character of American architecture, and buildings will be created that are more truly functionally efficient, economically sound and aesthetically satisfying,—in other words,—Good Architecture.

*Kenneth K. Stovall*

## THE SECOND MILE

THERE is always a tendency to let someone else do it. There is a feeling that the efforts of an organization in some way absolve the individual from further contribution of his own effort and time. Organizations have set up committees, for instance, to handle the "unemployment situation." The committees have done effective work. They have announced, at their luncheons, the grand totals of money received and pledged, and have then felt that the job was done and that now it was up to the efficient agencies of distribution,—the charity organizations, and so forth,—to distribute the satisfactory totals in small amounts.

Feeling that we have done our share, the subject no longer interests us. Yet, should this stop here? Have we done our level best to relieve the unemployment in our own ranks? Have we any assurance that the money that has been generously contributed will help some destitute draftsman and his dependents? Will the temporary employment be such that the recipient will be doing some constructive work of the kind for which he is fitted? There is research work, planning work, drafting work which these men could do under proper direction which would be far better than cleaning up the parks and vacant lots.

IT is the duty of each architect and architectural office, as far as it is humanly possible, to give employment, even at a minimum wage, to former employes. Such effort can be promotion work, research work that will make the office more efficient when times are better,—such as developing efficient office methods, standards and practice,—or studies of projects which might be promoted when the time comes.

Each local architectural organization could do no better than to realize that charity begins at home, and devise ways and means of tiding over those who have been employed by their members and who have served them faithfully in more prosperous times. Such ways and means might be, in addition to the individual efforts just mentioned, the development of plans for the locality,—for the city or town and its environs; for improving the building codes and zoning ordinances; for investigating present conditions with a view to future needs and developments. The job is not done until we have made every effort to aid *directly* the less fortunate in our own ranks.

## THE MAN NOBODY KNOWS

WE have just had the embarrassing experience of learning that a term we have been using for years is wholly absurd, that there is no such thing. In the current issue of *Scribner's Magazine*, Mr. Thomas Beer lists forty questions that were propounded to a group of twenty-five young

men and women, all college graduates or undergraduates but one. Among such sticklers as "Who were the Piccolomini?" etc., there appeared one innocent-looking challenge near the bottom of the list: "*Name three living American architects.*"

You will say, of course, that Mr. Beer added that one to comfort the young intelligentsia in their distressed ignorance. Perhaps he did; if so, his good intentions were wasted, for only four of the twenty-five were able to name three living American architects! And so we shall never be able to use the term "a well known architect" without appending the notation, "well known to his office force, his bill collectors, and his club cronies."

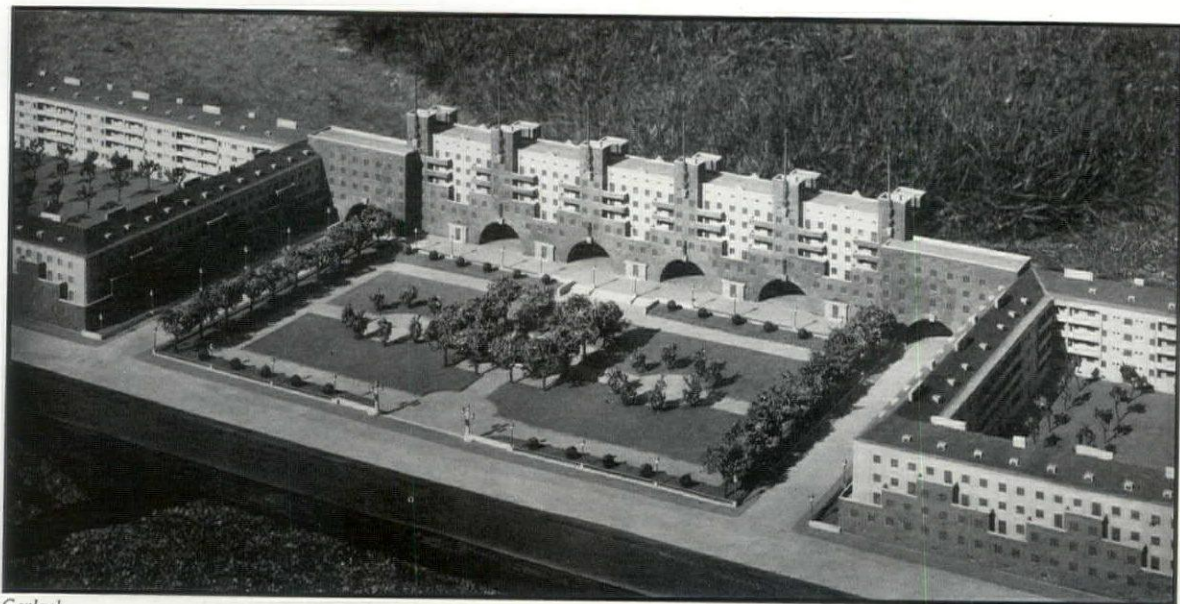
Perhaps the other twenty-one didn't know what an architect is? At any rate, Mr. Beer tells us that six left the answer blank. One boldly scratched the name of Christopher Wren as one of his three; four men and one woman jotted down Stanford White as their choice; another gave Graham, Anderson, PABST & White.

After all, there are only two goals in professional pursuit,—wealth and recognition. (If we leave out personal satisfaction in service.) We know, and can prove by the soles of the shoes of thousands of architects, that there is little money to be made in the profession, and now it seems that recognition is also denied.

One way of getting ahead is to bid for fame in another field. For instance, who has not heard of George Chappell, the writer, the satirist, the explorer of the alimentary canal? On the other hand, who hears constantly of George Chappell, the architect? ("Who wants to?" suggests Mr. Murchison.) Even Mr. Hoover would have gone down into posterity as an unknown engineer if he hadn't got himself another job; and sometimes the Senate makes him wish he had. So, you see, it is possible to become prominent if you use the proper tactics. One might also marry an actress, or an heiress, or divorce one and marry the other, send a sketch of a "proposed" 200-story building to the newspapers, win a costume prize at the Beaux Arts Ball, write a book on "functionalism." In less than no time, you will be front page news, you will be talked about at dinner tables, and who knows but what you might get a job out of it!

We are indebted to Mr. Beer for revealing the depths of obscurity to which all architects are sunk. It is well to know the truth, sorrowful though it may be. After all, there were others in the questionnaire who made out worse than the architects. Only one person knew who the Piccolomini were, only three knew who discovered the circulation of the blood, and not a soul could name five motor cars manufactured in England. So, you see, architects are much better known than the motor cars of England.

J. C. F.



Gerlach

Model of the Heiligenstadter  
Apartments, Vienna. Karl  
Ehn, Architect

## COMMUNITY APARTMENTS

### —A NEW DEVELOPMENT IN HOUSING

BY

FRANCIS S. ONDERDONK

THE poverty which prevailed in Austria at the conclusion of the World War has been materially lessened since the establishment of the Austrian Republic by the activity of the new Social-Democratic government in Vienna, which inaugurated, in 1923, a housing scheme surpassing in scope all former activities of a similar kind. At the inception of the project the city was suffering from an acute housing famine that had prevailed since 1911 as well as a serious business depression. During and after the war private capital was not invested in building activities, and before the municipal development began, the architectural profession and the building trades were threatened with virtual extinction. Among the laboring classes slum conditions, caused by high rents and insufficient and congested housing facilities, were general. Drastic social and economic measures were necessary to insure civic existence, and the extensive development of community housing schemes, owned and maintained by the city, was instituted.

Planned to care pleasantly and economically for the needs of an entire community, by a single organization, the municipal "Wohnhausbau" has been evolved as a new type of multiple

The increasing complexity of civic problems should receive the serious consideration of architects. THE ARCHITECTURAL FORUM will publish articles dealing with city planning and community housing problems by prominent authors here and abroad, and will be glad to receive comments from its readers. The accompanying article is the first of this series. Its author, Dr. Onderdonk, is a Professor of Architecture in the University of Michigan, and the author of "The Ferro-Concrete Style." The second article will appear in an early issue.

dwelling. Its size varies from a capacity of 22 to 1,600 flats, the size of the individual apartments varying with the location and size of the project. In plan, the group houses form quadrangles, enclosing garden courts which cover from 50 to 75 per cent of the plot area. Some of them approach the size of a public square, and, besides providing sunlight and air for the buildings, contain recreation facilities for adults and children. In effect the buildings enclose a park, separated from traffic, and provide a safe, pleasant and convenient playground for tenants.

Specifically, the Wohnhausbau is planned for communal living. Usually four dwellings are accessible from one stair, and corridors are ex-



*Photos. by Gerlach*

Kindergarten wing in the  
Municipal Brunnerstrasse  
Apartment, Vienna



The Franz Klein Hof  
Apartments, Vienna.  
Karl Krist, Architect. A  
view of the courtyard  
and the children's wing

MUNICIPAL APARTMENT HOUSES  
IN THE SUBURBS OF VIENNA

cluded as far as possible. Dwellings range in size from 430 to 603 square feet and are planned to provide the maximum of convenience in occupancy. The "Sandleiten," situated on the outskirts of the city near the woods, may be taken as typical for the larger building groups. It contains 1,386 apartments divided as follows:

- 95 One-room apartments for bachelors
- 124 Flats, with living room and kitchen
- 775 Flats, with living room, kitchen and one small chamber
- 156 Flats with living room, kitchen and two small chambers
- 140 Flats with two living rooms and kitchen
- 73 Flats with two living rooms, kitchen and one small chamber
- 6 Flats with two living rooms, kitchen and two small chambers
- 14 Flats with three living rooms and kitchen
- 3 Flats with three living rooms, kitchen and one small chamber

The apartments contain toilets, but baths are provided in centrally located groups. In houses containing over 300 flats steam laundries are installed in the basement, and, in most cases, a group includes a building for the common deposit of refuse. Every effort has been made to raise the standard of living while still maintaining a necessary maximum in economy. To this end many house groups have free public libraries, lecture halls, gymnasiums, medical, dental clinics,

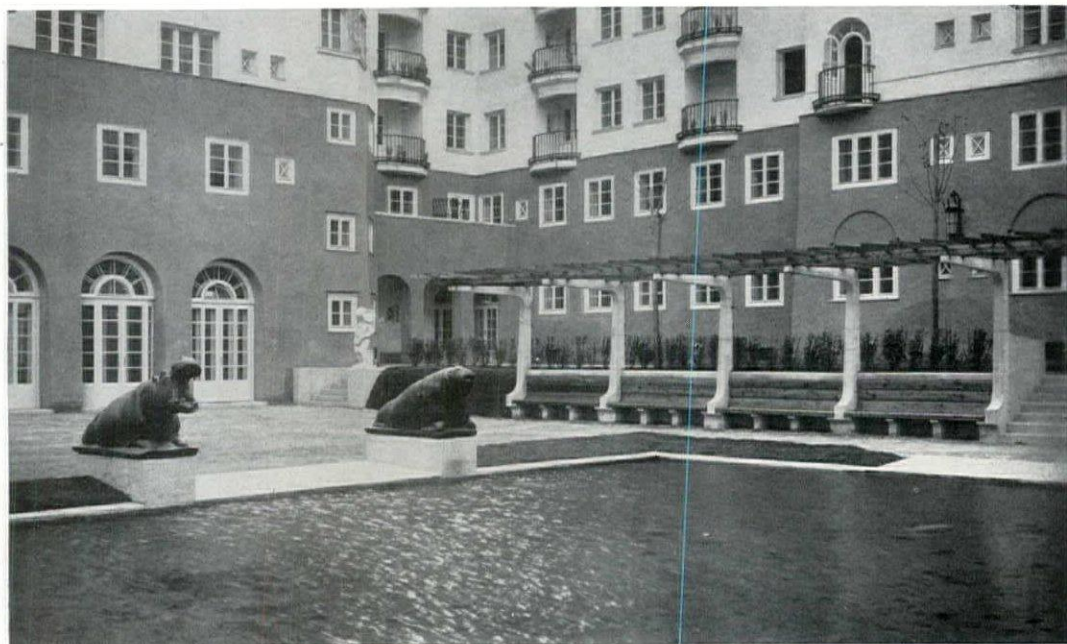


Entrance to the Sandleiten Apartments. Notice the courtyard beyond the gates

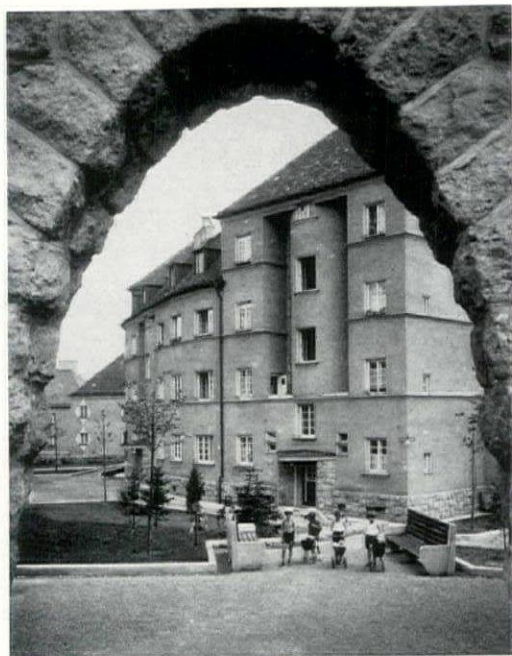
Municipal two-family houses. Willy Peterle, Architect. These houses are built in a garden city development on the outskirts of Vienna

Gerlach



*Bauer*

The Garden court of the Fuchsenfeldhof Apartments, Vienna. This is one of three courts in this group of buildings and contains, in addition to a wading pool, a children's playground. (Below) The court in the Quarinplatz Apartments

*Gerlach*

Court in the Sandleiten Apartments

MUNICIPAL APARTMENTS  
IN  
THE SUBURBS OF VIENNA



The architect's drawing of a cafe and terrace in the Heiligenstadter Apartments. Karl Ehn, Architect



Gerlach

maternity bureaus, kindergartens, day nurseries and general recreation rooms for adults. Co-operative stores, post offices, restaurants, cafes, motion picture theaters and shops are incorporated in many of the groups, all tending toward the development of a self-sufficient community.

The buildings are designed to fill adequately the varied needs of the occupants, and the treatment has been frankly utilitarian. Cleanliness and economy of maintenance are important requirements in the design of such groups, and simple, durable materials have been used to fulfill them. Color has been extensively used in large areas; sculpture is used sparingly. The repetition of balconies and bay windows serves to characterize a set-back building design and to admit the maximum of air and sunlight to apartments.

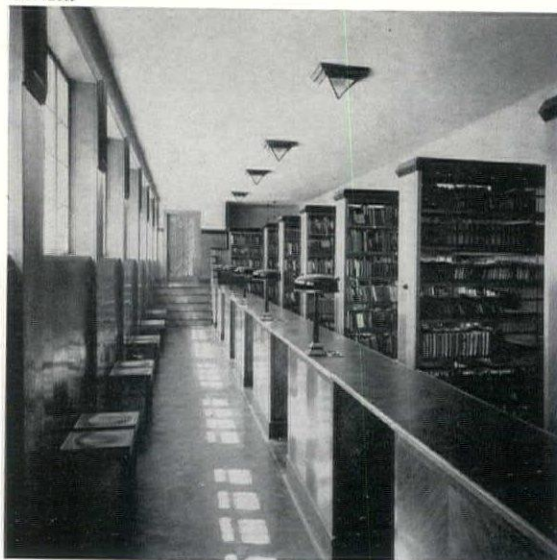
Vienna has built, since 1923, 45,000 dwellings, providing needed shelter for some 200,000 people, most of them being a part of the large developments already described. The majority of them were designed by private architects and built by private contractors supervised by the Municipal Building Office. All were built on city-owned property, thus saving the cost of laying gas, water, electricity and sewer mains, and were constructed of materials either purchased or manufactured by the city. The rent of an apartment ranges from \$1 to \$3, and is used entirely for maintenance, no interest being placed upon the invested capital. The technical supervision and administration are controlled entirely by the city.

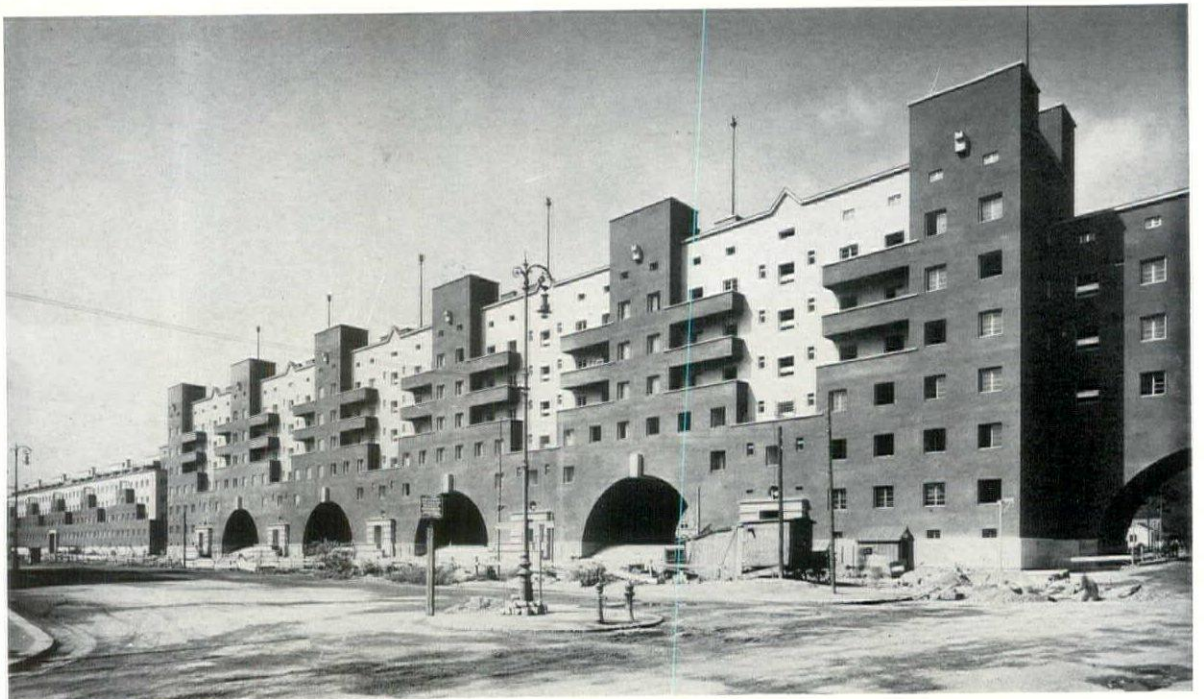
Over a period of seven years the municipal government has demonstrated the effectiveness of its housing scheme. The start, by building 25,-

000 apartments, offered immediate employment to individuals in dire circumstances. The successive completion of the projects improved at once the social and economic condition of many others. That the plan is a success is evidenced by the city's expanded program, which is committed to the completion of a total of 64,000 municipal dwellings by 1932. The essentials of the plan are simple; the effect has been an immediate solution of many involved civic problems; and both are worthy of serious architectural consideration in this country.

The Library in the Kreitnergasse-Thaliastrasse Apartments. A. Stockl, Architect. Notice the simplicity of the room and the distribution of daylight

Gerlach



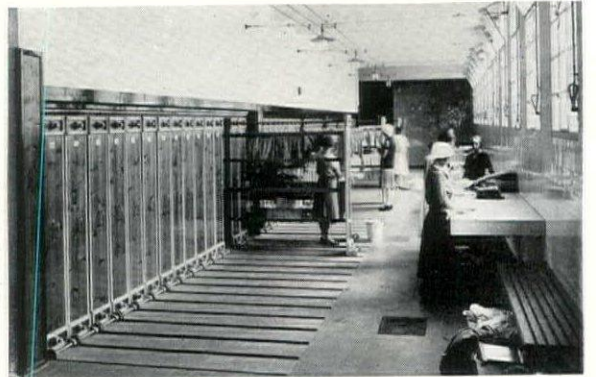


*Photos. by Gerlach*



A portion of the Heiligenstadter Apartment group. This faces the interior court and is adjacent to one of the entrances to the group

Entrance and center facade from the street of the Heiligenstadter Apartments. (See the cut on page 43 for a view of the interior court.) Below are examples of a drying room and laundry that are typical of the communal services of these apartment groups



*Sauer*



*Sauer*

## MUNICIPAL APARTMENTS IN THE SUBURBS OF VIENNA

# OFFICE BUILDING AND MUSEUM

FOR

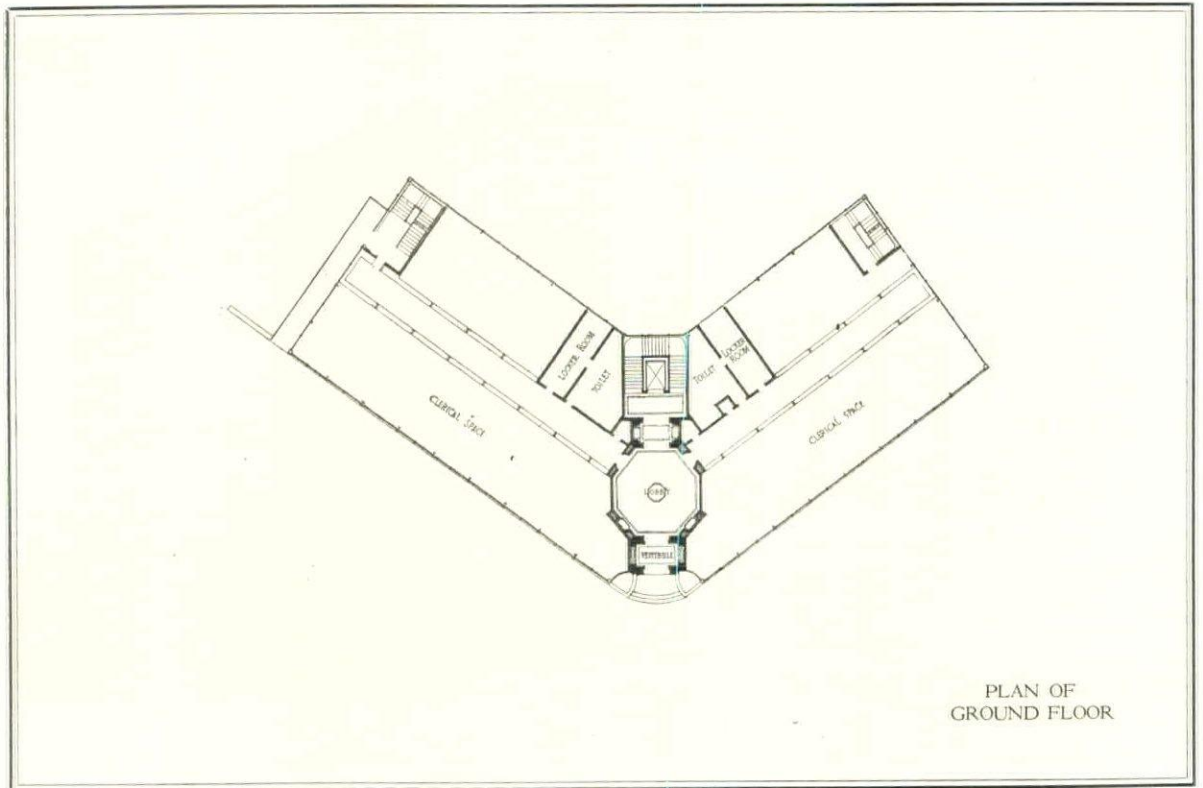
THE WORCESTER PRESSED STEEL CO.

WORCESTER, MASSACHUSETTS



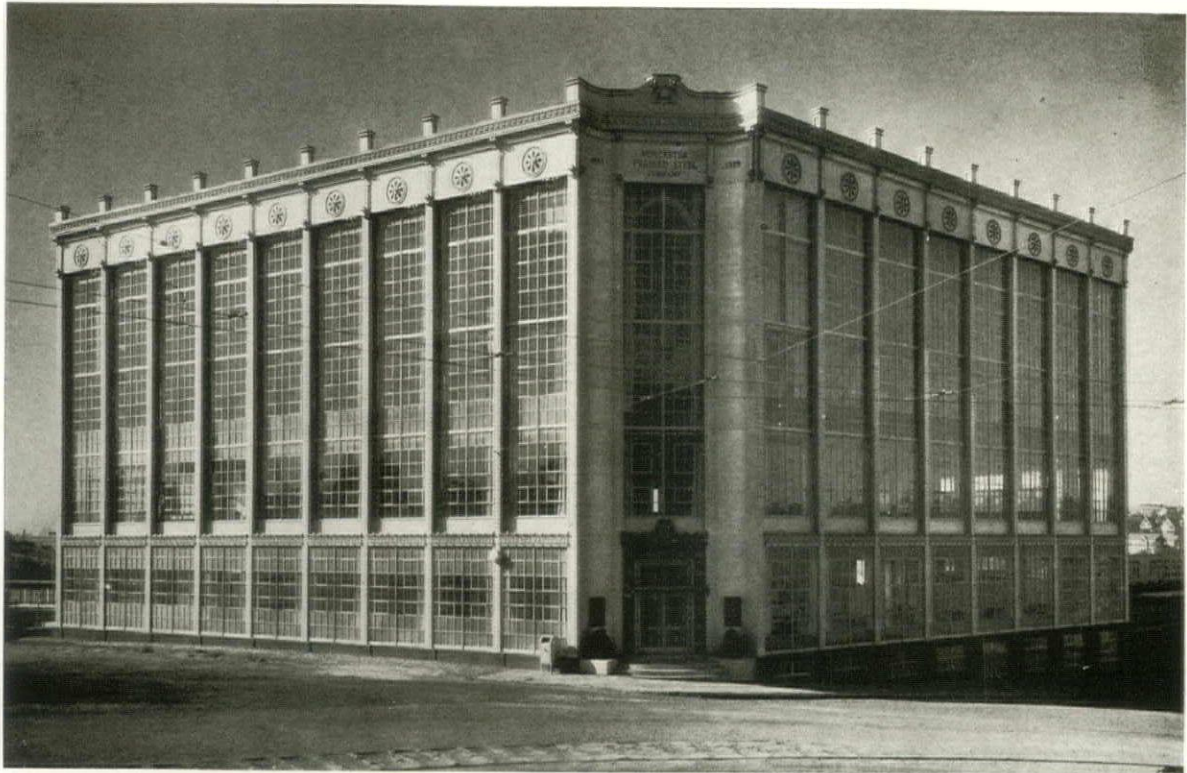
*Paul J. Weber*

J. D. LELAND & COMPANY  
ARCHITECTS AND ENGINEERS



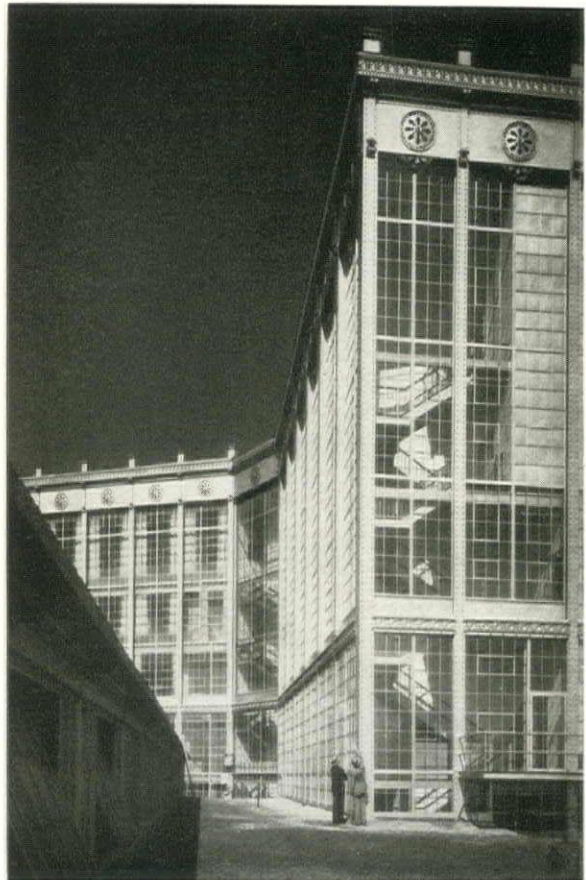
STEEL and glass are the essential and practically the only materials used for the exterior of this building, designed to house the administrative offices of the Worcester Pressed Steel Company. It is entirely fitting that the exterior of this building should be made to express its purpose through the use of the materials actually manufactured by the company. This fact accounts for a large amount of decorative steel detail used as frieze and cornice and around the main entrance. The entrance, door frame and grilles are of polished stainless steel. The decoration of this entrance was designed to exemplify methods of joining and working metal, as casting, stamping, forging, etc. The use of fairly large steel surfaces in certain portions detracts somewhat from the steely quality of the design. These surfaces might, except for the aluminum paint, easily be mistaken, from a distance, for stone. The ornamental forms seem to show a derivation from stone rather than essentially steel character. Any stone impression one may have from a distance is dissipated on closer scrutiny of the building. The structural steel columns are entirely exposed, and the structural members are joined with rivets with larger than standard size heads in order to emphasize the steel quality. The exterior was sandblasted and covered with several coats of aluminum bronze paint, and black was used for emphasis. (Continued on page 52)

WORCESTER PRESSED STEEL CO.  
WORCESTER, MASSACHUSETTS  
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ARCHITECTS AND ENGINEERS

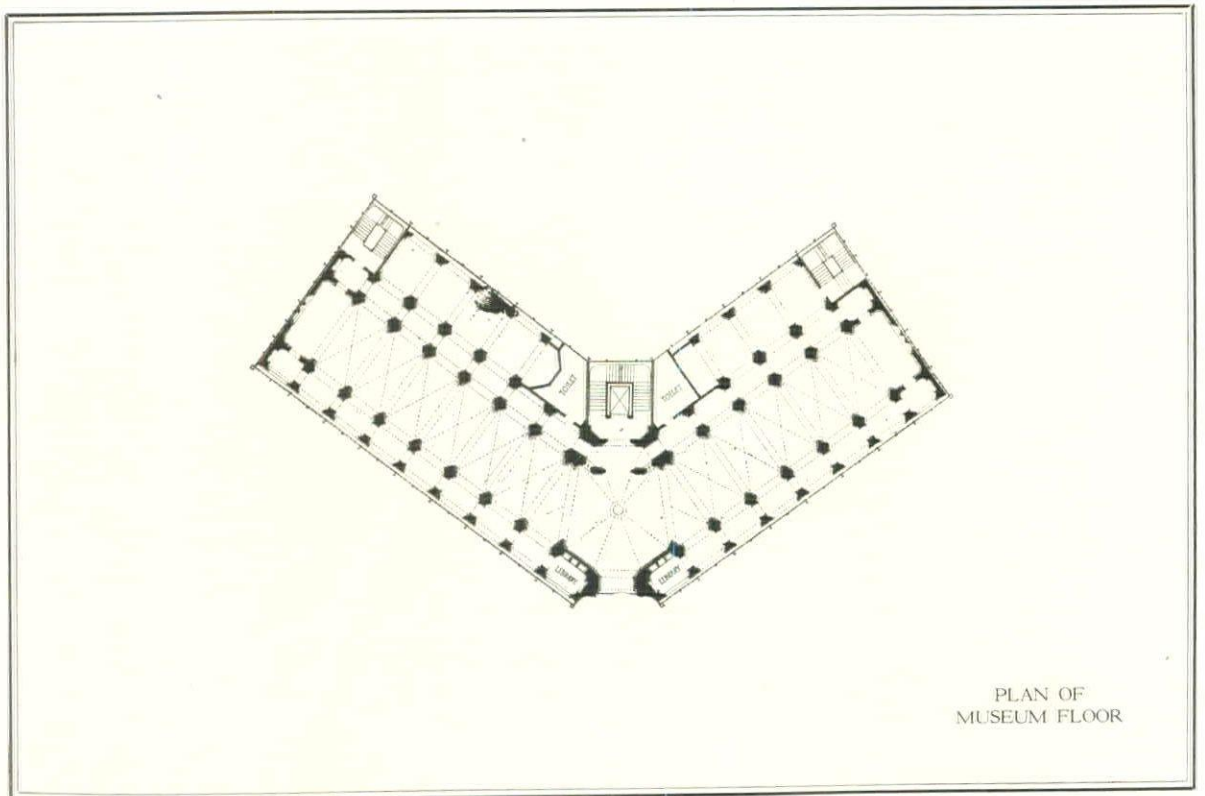


*Photos by Paul J. Weber*

VIEW FROM ENTRANCE LEVEL  
(RIGHT) FROM COURT AT REAR



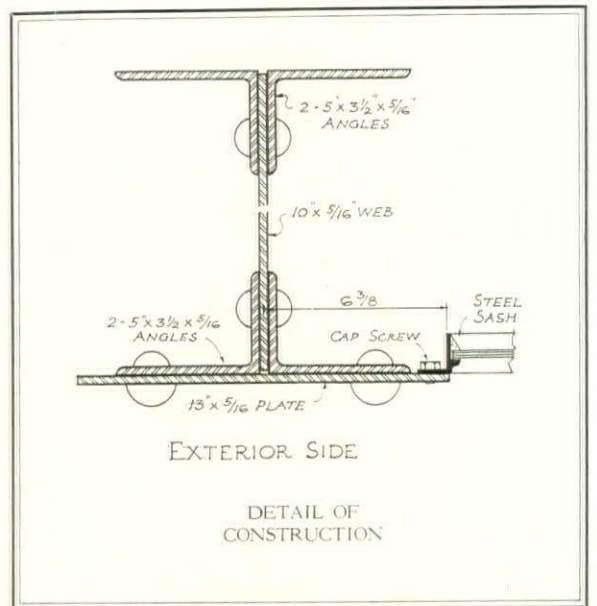
WORCESTER PRESSED STEEL CO.  
WORCESTER, MASSACHUSETTS  
J. D. LELAND & COMPANY  
ARCHITECTS AND ENGINEERS



The building also houses a museum in which the progress of steel from the early craftsmanship to the modern machine production, exemplified in an automobile chassis, is traced. It was thought that for the display of the armor and mediæval steel-work, the architectural treatment of the room should be reminiscent of the architecture of the times, and therefore the room is vaulted in a Gothic manner. The museum vaulting is in imitation Caen stone, and at the end of each nave is a rose window in stained glass. The floor is of large tile laid in a random ashlar pattern. Perhaps it would be possible to exhibit these things with equal effectiveness in a room very simply designed in flat steel which would be consistent with the modern use of steel and glass in the exterior.

The building is of mill construction internally faced with structural steel and glass. The walls are almost entirely of glazed steel sash set in two planes for effect. The sash is joined to the structural steel simply and efficiently. The office portions of the building are typical of common practice. The entrance lobby is in linen-fold paneling, with a rough-textured plaster ceiling and patterned tile floor laid on a steel deck.

The building is an outstanding achievement in the use of modern materials in the most effective way, and will undoubtedly have its effect on the future design and efficiency of buildings.



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ARCHITECTS AND ENGINEERS



*Paul J. Weber*

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ARCHITECTS AND ENGINEERS



THE VAULTED ARMORY.  
IT HOUSES A COMPLETE  
EXHIBIT OF MEDIEVAL  
METAL ARTCRAFT

THE MAIN ENTRANCE (BELOW)  
THE DOOR FRAME AND GRILLES  
ARE POLISHED STEEL; THE AR-  
CHITRAVE IS WROUGHT IRON



*Photos by Paul J. Weber*

WORCESTER PRESSED STEEL CO.  
WORCESTER, MASSACHUSETTS  
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ARCHITECTS AND ENGINEERS

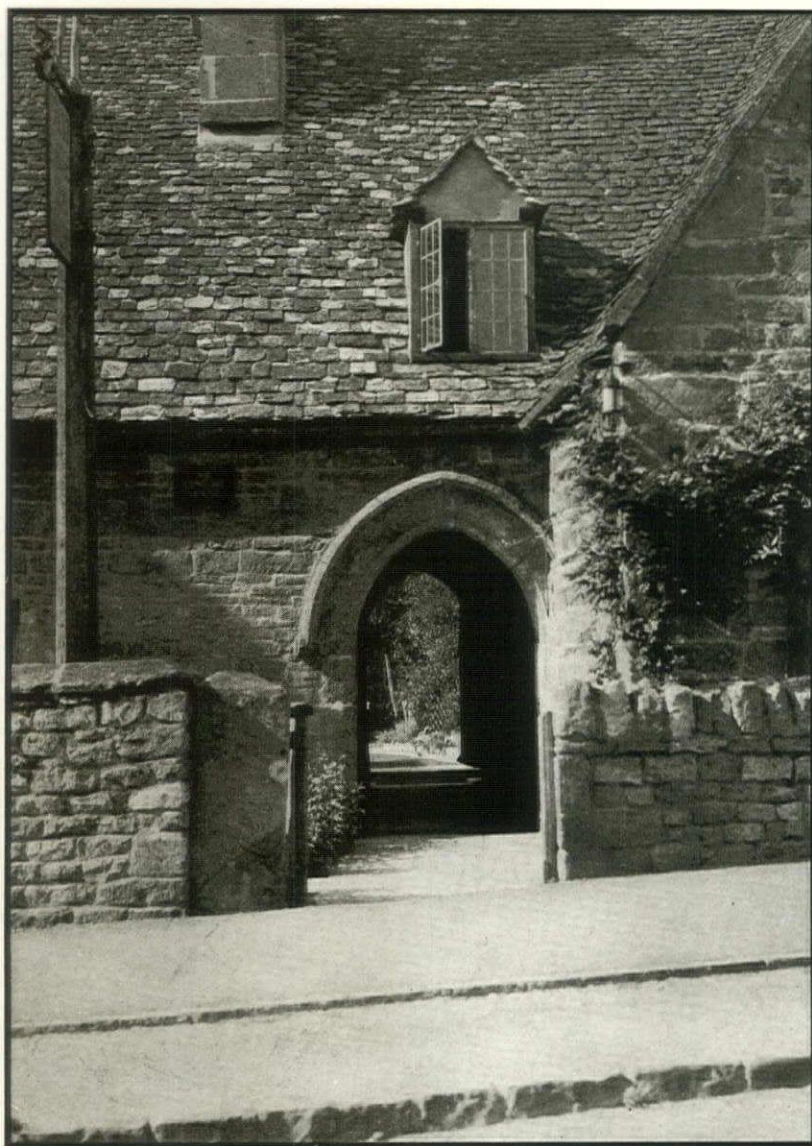


# ENGLISH COTSWOLD HOUSES

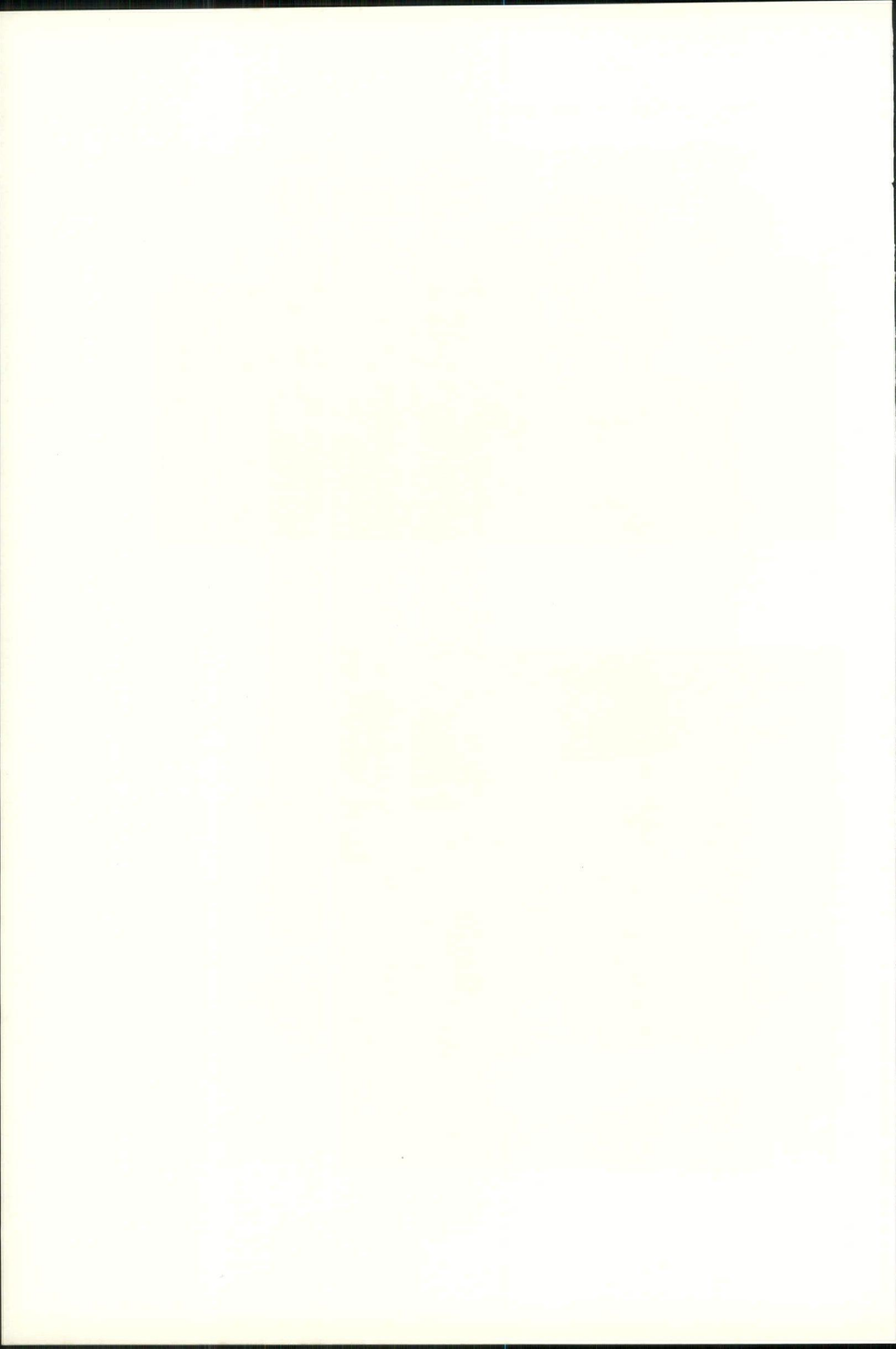
FROM PHOTOGRAPHS

BY

H. ROSSITER SNYDER



THE ENTRANCE TO A TWELFTH  
CENTURY INN AT BROADWAY

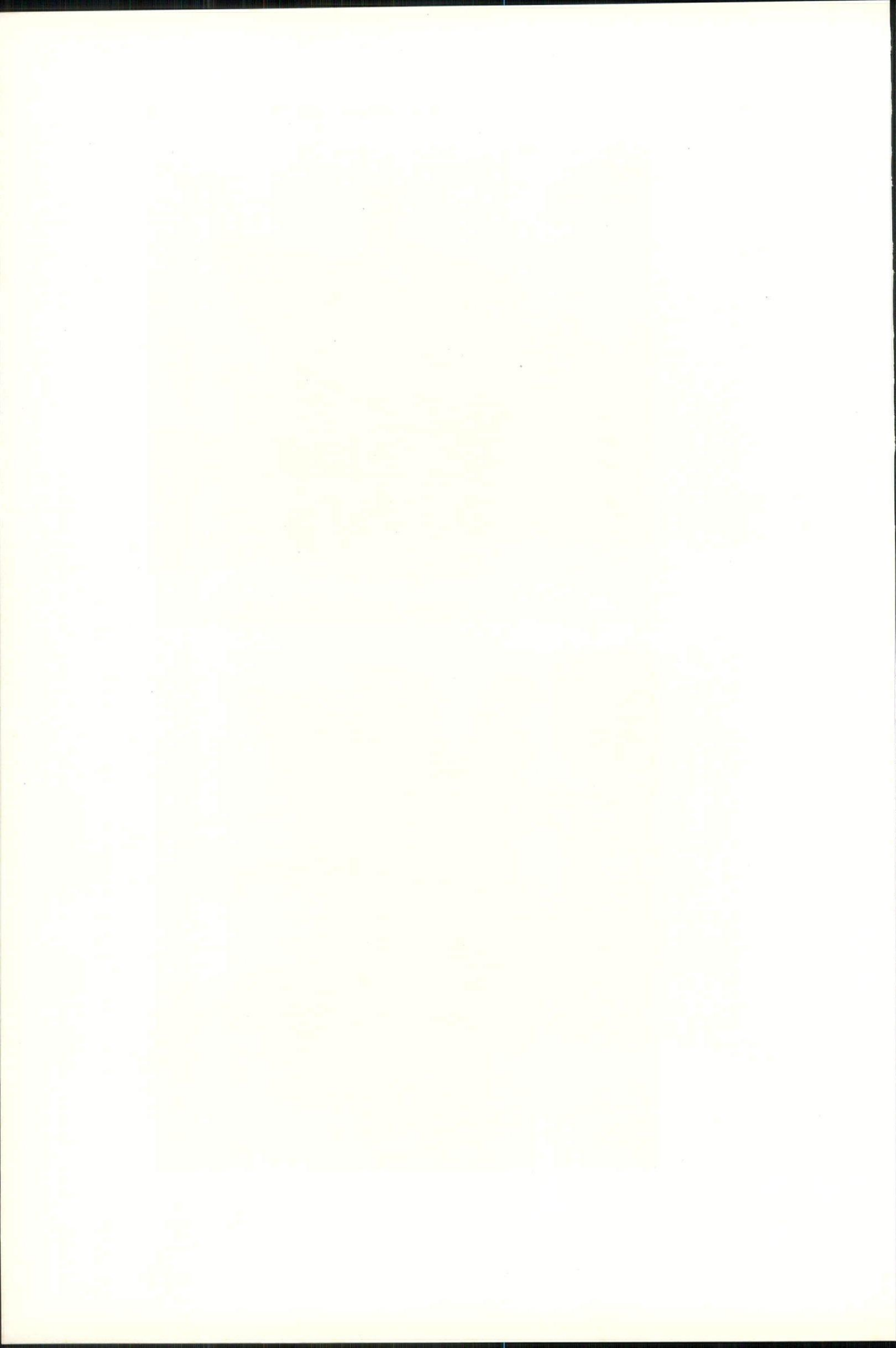




GROUP HOUSES IN THE  
VILLAGE OF BIBURY,  
OXFORDSHIRE



A 14th CENTURY HOUSE  
AT BIBURY, OXFORD-  
SHIRE



A ROUGH TEXTURED  
STONE COTTAGE AT  
LOWER SLAUGHTER,  
OXFORDSHIRE



DRESSED STONE LAID  
IN ALTERNATING  
COURSES AT BIBURY,  
OXFORDSHIRE







THE UTMOST IN SIMPLICITY. A ROUGH  
STONE COTTAGE AT BURFORD, OXFORDSHIRE



AN UNUSUAL VARIATION FROM THE COTS-  
WOLD TYPE. BURFORD, OXFORDSHIRE



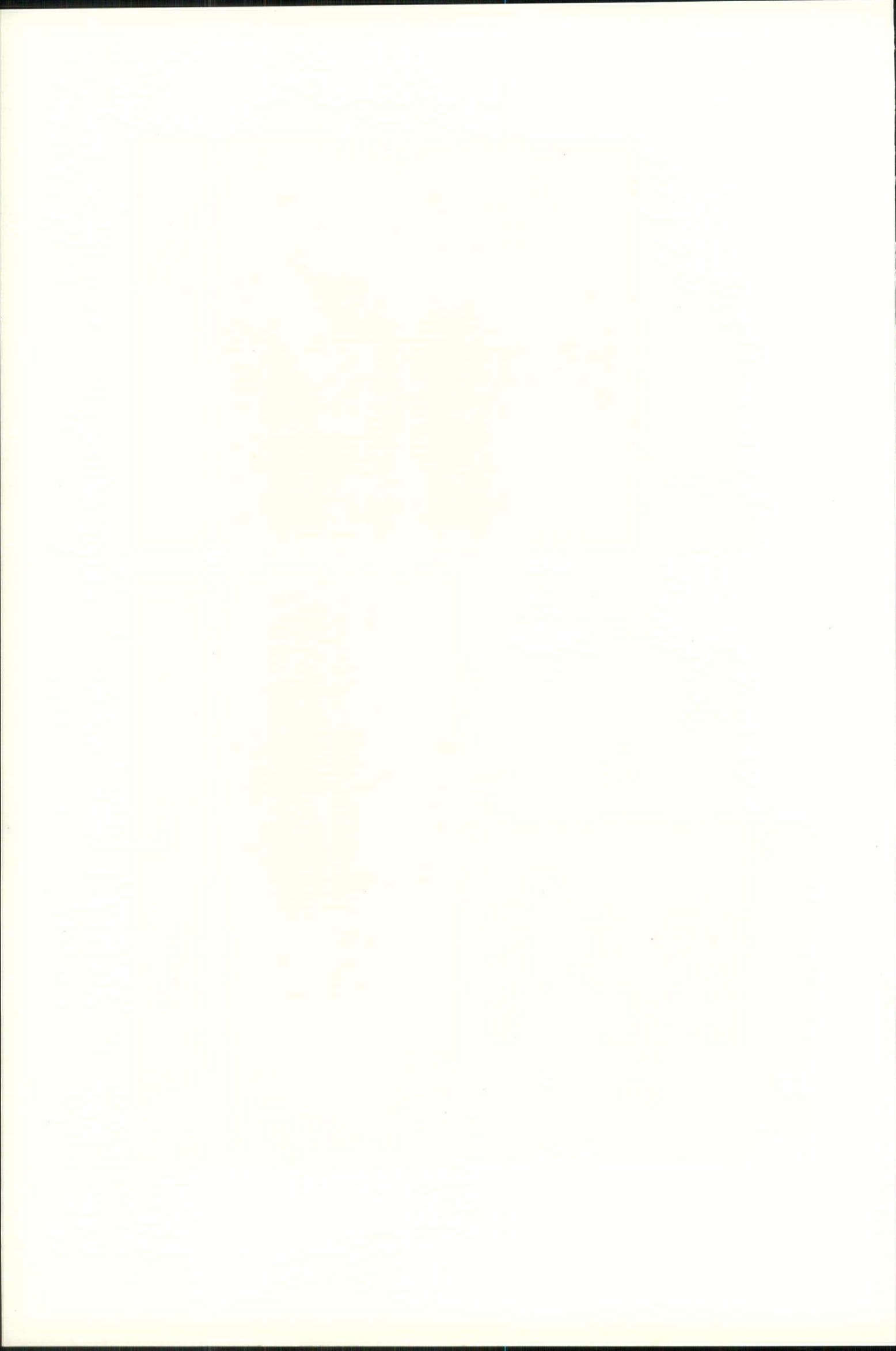


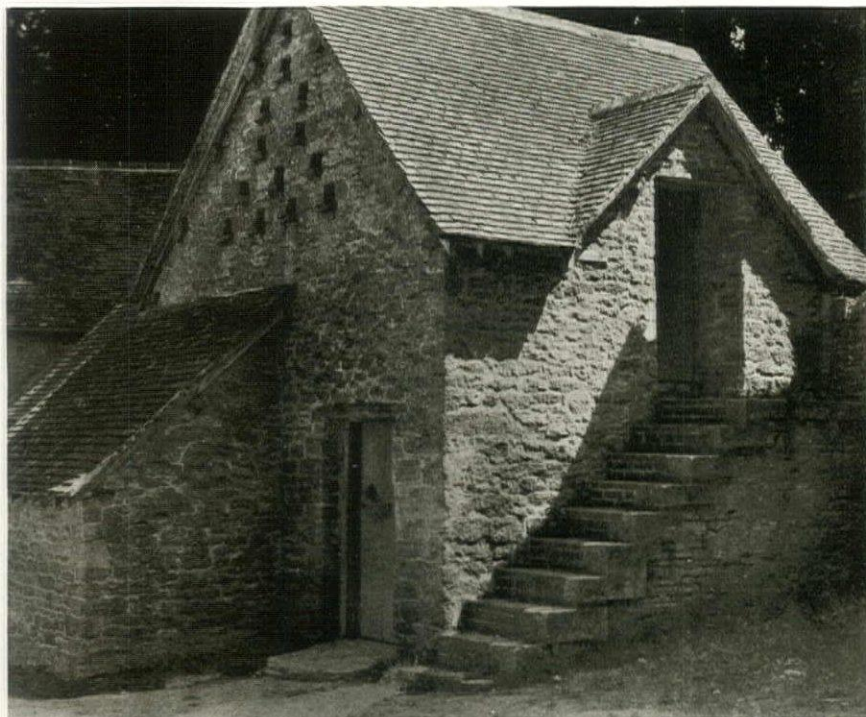


CLIMBING VINES AND BORDER GARDENS GIVE THE ULTIMATE TOUCH OF AGE AND MELLOWNESS TO COTSWOLD COTTAGES



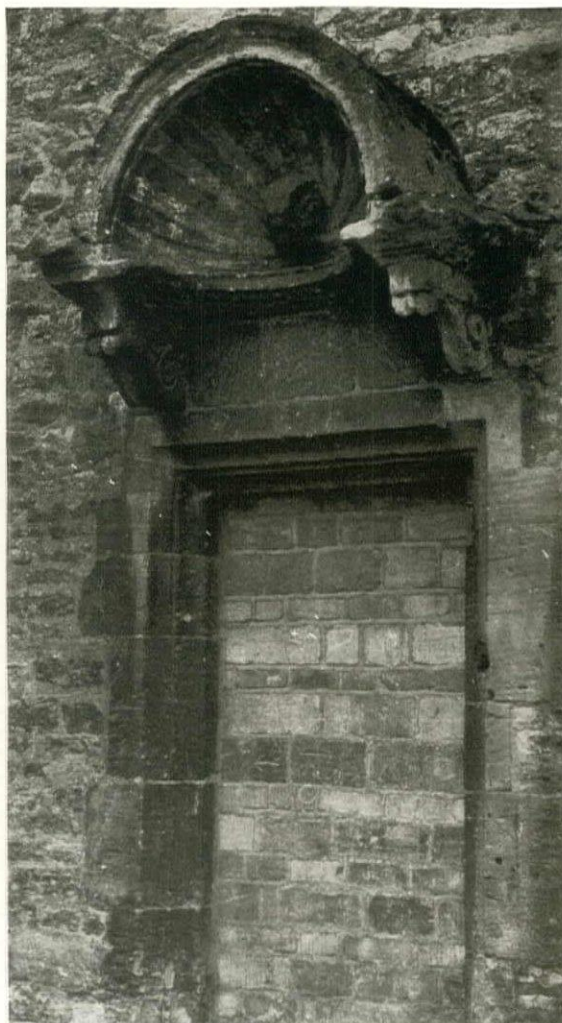
A LATE PERIOD TOWN HOUSE IN THE COTSWOLD VILLAGE OF BURFORD, OXFORDSHIRE



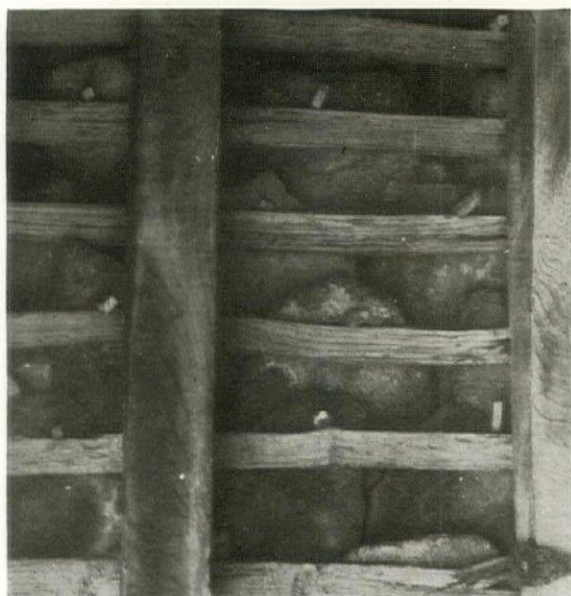


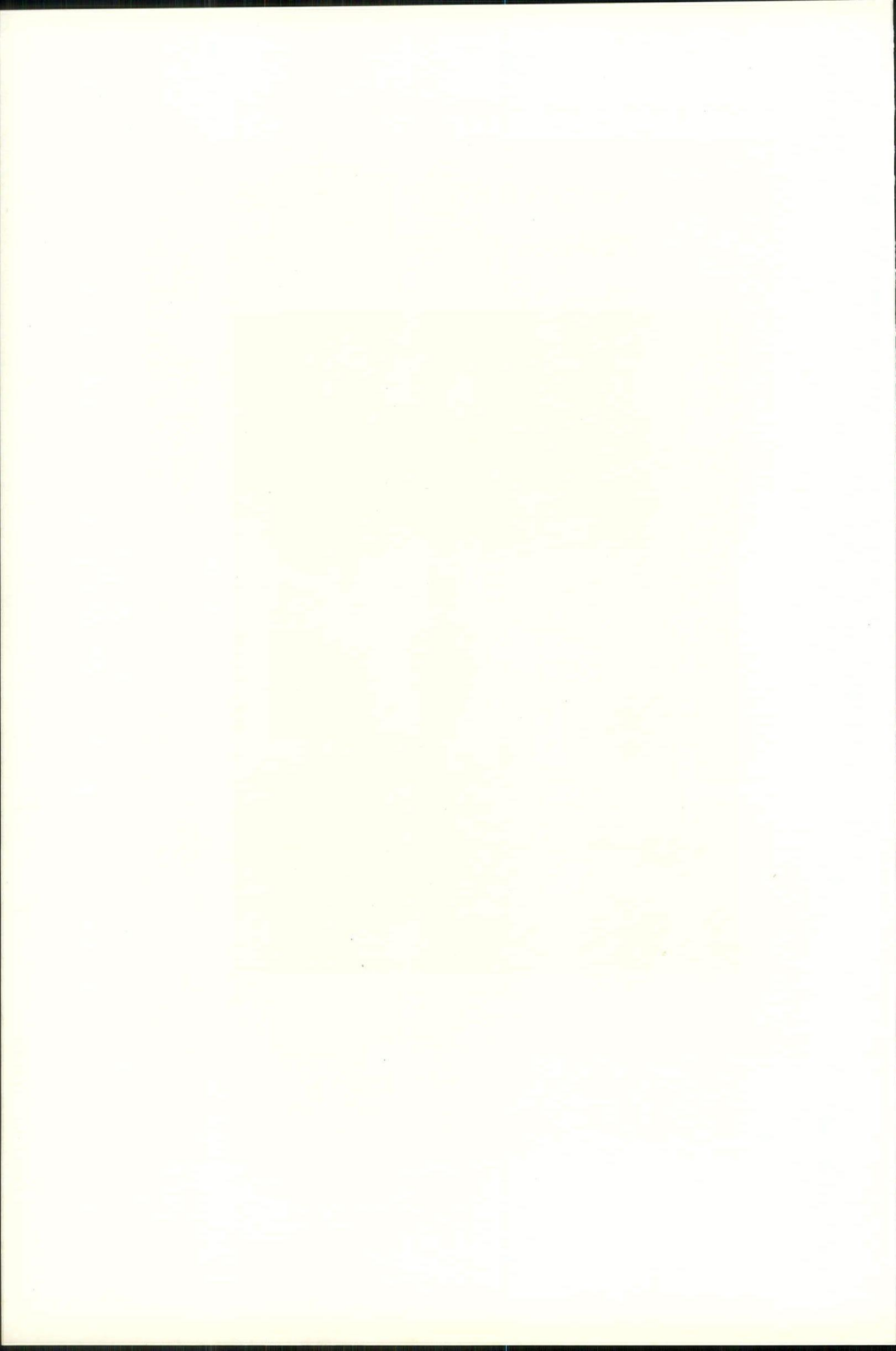
A DOVE-COTE ON THE VILLAGE SQUIRE'S ESTATE AT BIBURY, OXFORDSHIRE

A WALLED-UP DOOR OF THE ANCIENT ALMS-HOUSE OF BURFORD, OXFORDSHIRE

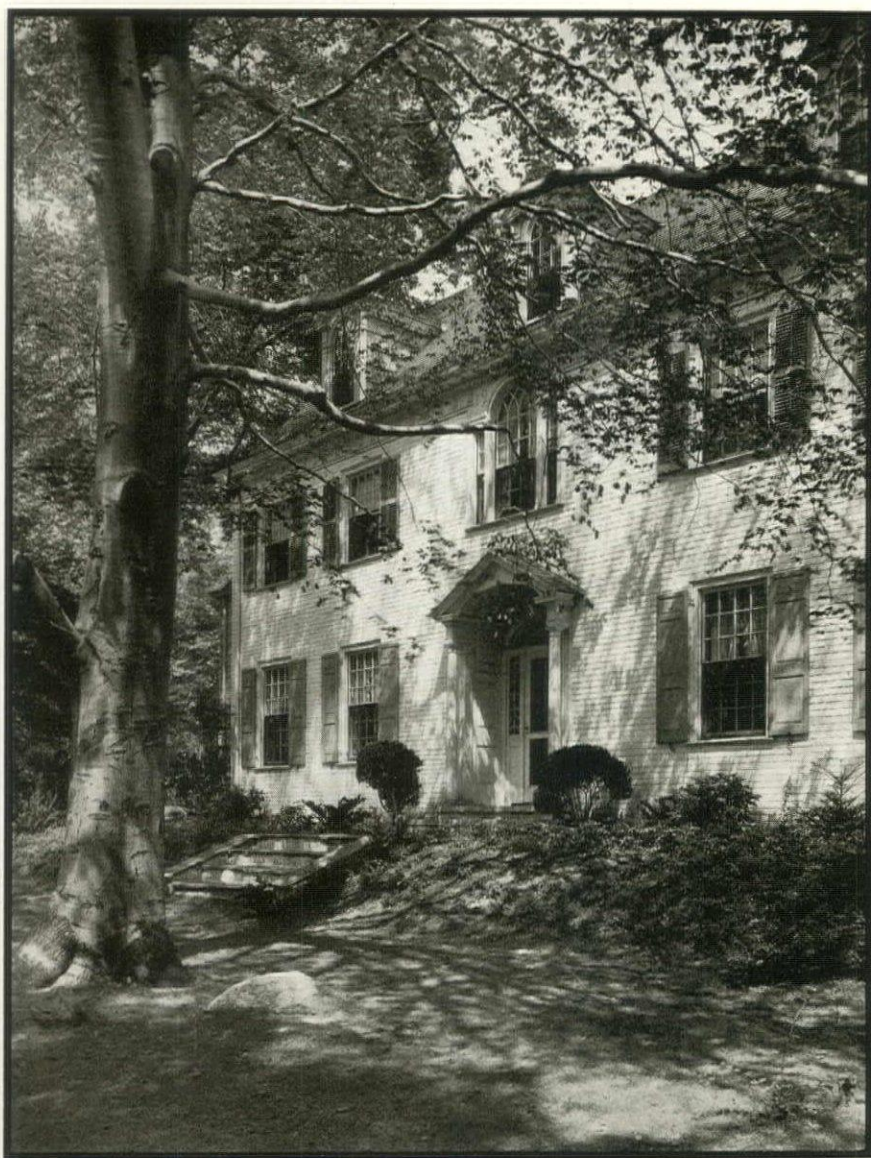


UNDERNEATH A STONE TILE ROOF, EACH STONE IS DRILLED AND PEGGED TO PREVENT SLIPPING





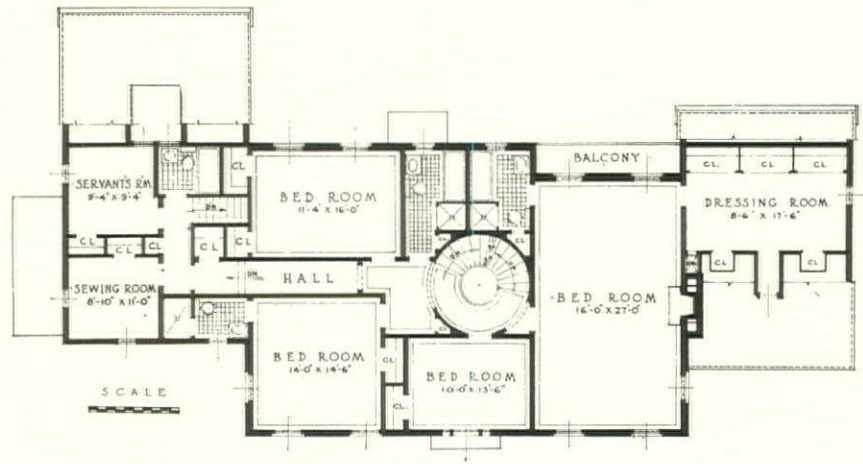
HOUSE OF LOCKWOOD BARR, ESQ.  
PELHAM, NEW YORK



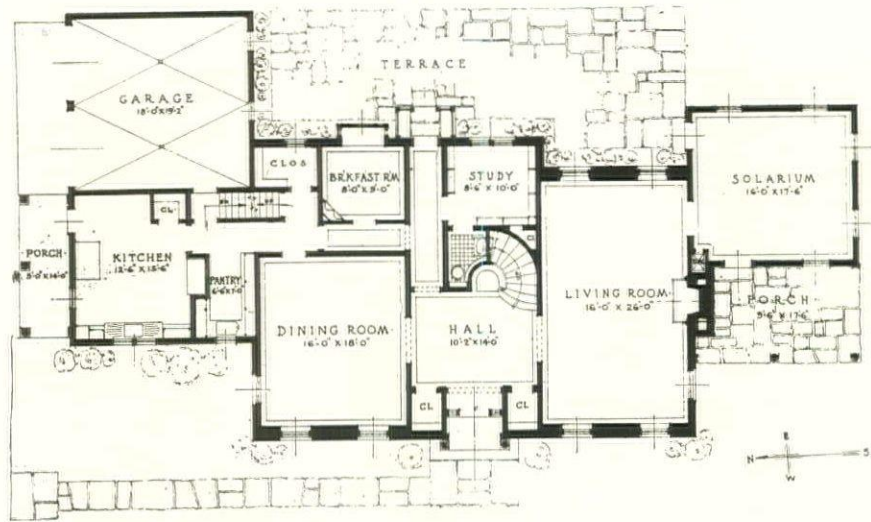
*Richard Averill Smith*

ENTRANCE FRONT

ELECTUS D. LITCHFIELD  
ARCHITECT



SECOND FLOOR PLAN



FIRST FLOOR PLAN

HOUSE OF LOCKWOOD BARR, ESQ.  
PELHAM, NEW YORK  
ELECTUS D. LITCHFIELD  
ARCHITECT



*Richard Averill Smith*

LOOKING SOUTHEAST. KITCHEN WING AT LEFT



*Richard Averill Smith*

LOOKING NORTHEAST. SOLARIUM WING AT RIGHT

HOUSE OF LOCKWOOD BARR, ESQ.  
PELHAM, NEW YORK  
ELECTUS D. LITCHFIELD  
ARCHITECT



*Richard Averill Smith*

GARDEN FRONT

The house was originally planned with a straight stair, running parallel to the hallway between the living room and the dining room, at right angles to the main entrance to the house. While the house was under construction, Mr. Litchfield prepared a study showing an interesting circular stairway carried up through the second floor into a little dome in the attic. The revision was approved by the owner, and the change was made with the excellent result shown opposite

HOUSE OF LOCKWOOD BARR, ESQ.  
PELHAM, NEW YORK  
ELECTUS D. LITCHFIELD  
ARCHITECT





(LEFT)  
SECOND FLOOR  
STAIR LANDING

*Underwood & Underwood*

(RIGHT) FIRST FLOOR  
HALL AND STAIRS



*Richard Averill Smith*

HOUSE OF LOCKWOOD BARR, ESQ.  
PELHAM, NEW YORK  
ELECTUS D. LITCHFIELD  
ARCHITECT



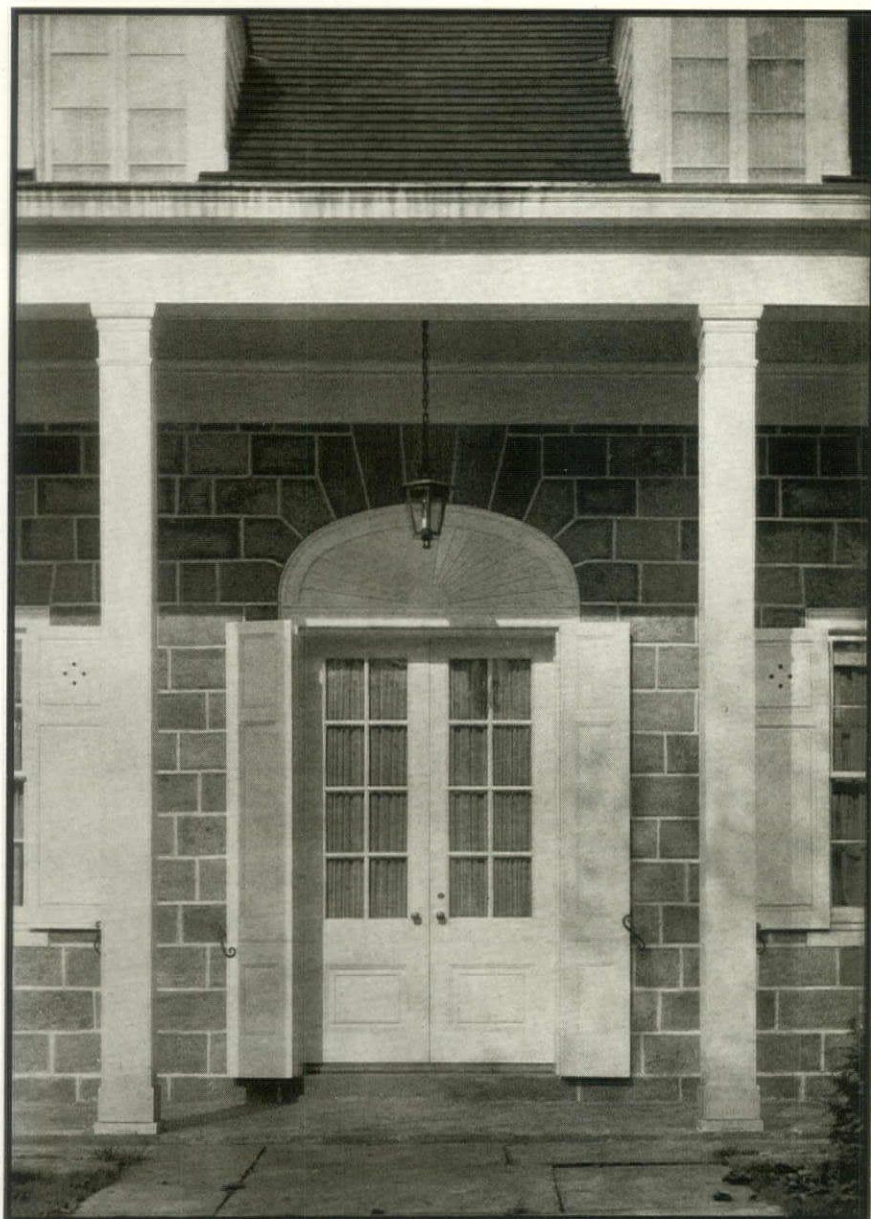
*Richard Averill Smith*

VESTIBULE

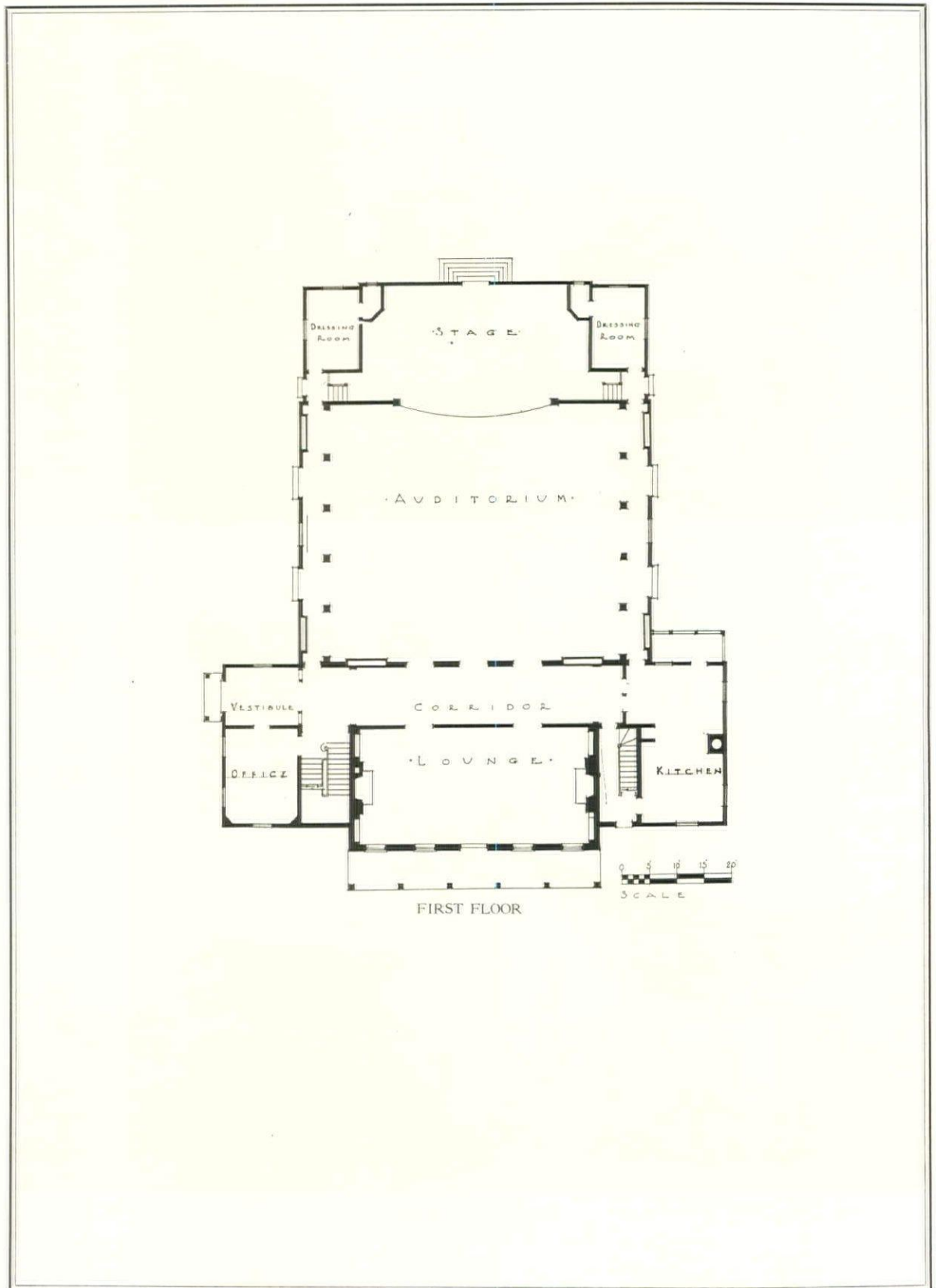
HOUSE OF LOCKWOOD BARR, ESQ.  
PELHAM, NEW YORK  
ELECTUS D. LITCHFIELD  
ARCHITECT

# THE WOMEN'S CLUB

RIDGEWOOD, N. J.

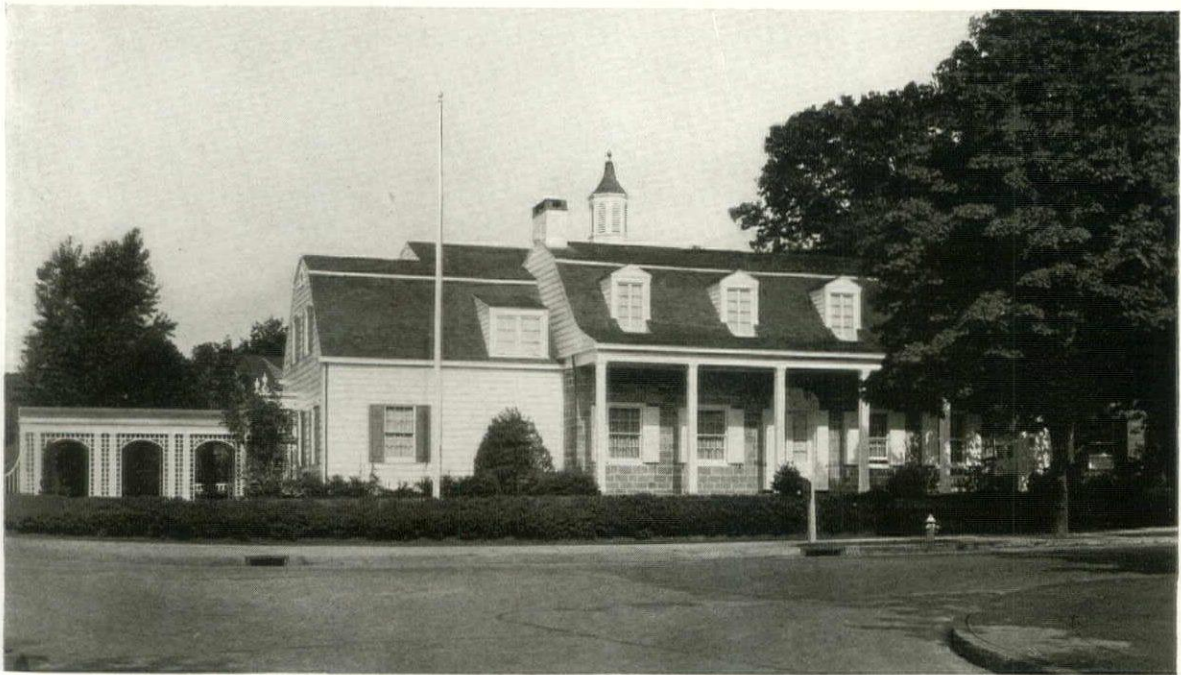


GEORGE S. KOYL  
OF RICH, MATHESIUS & KOYL,  
ARCHITECT



THE WOMEN'S CLUB  
RIDGEWOOD, N. J.

GEORGE S. KOYL  
OF RICH, MATHESIOUS & KOYL,  
ARCHITECT



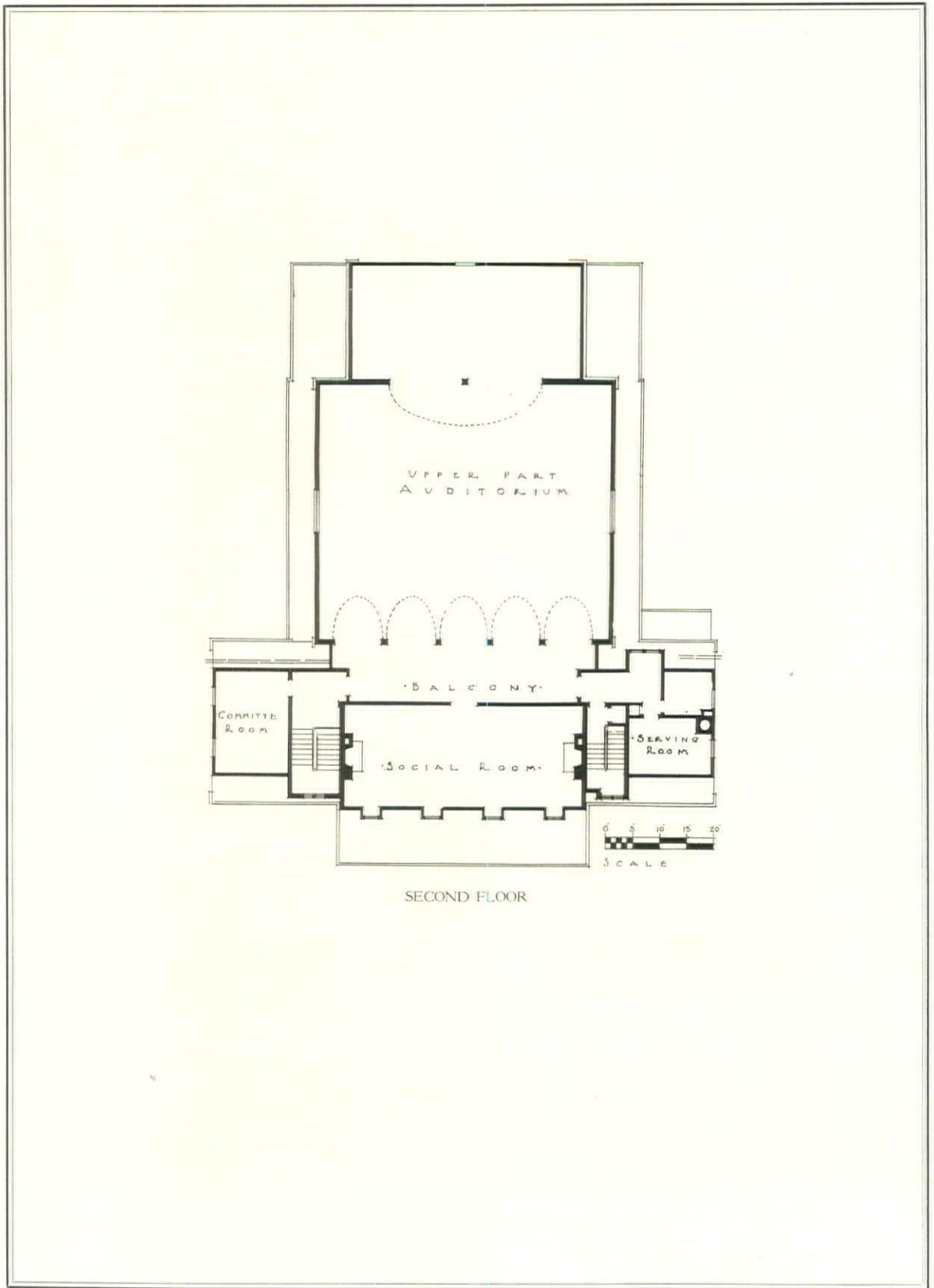
VIEW FROM STREET



VIEW FROM GARDEN

THE WOMEN'S CLUB  
RIDGEWOOD, N. J.

GEORGE S. KOYL  
OF RICH, MATHESIUS & KOYL,  
ARCHITECT



THE WOMEN'S CLUB  
RIDGEWOOD, N. J.

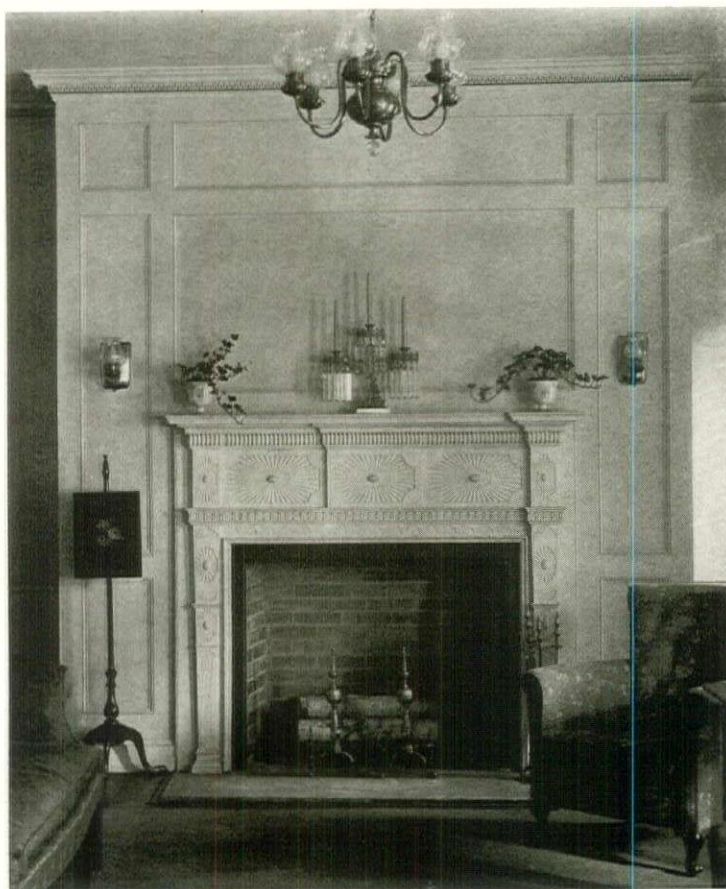
GEORGE S. KOYL  
OF RICH, MATHESIUS & KOYL,  
ARCHITECT



FIREPLACE IN LOUNGE. AN ORIGINAL, EARLY MANTEL

THE WOMEN'S CLUB  
RIDGEWOOD, N. J.

GEORGE S. KOYL  
OF RICH, MATHESIUS & KOYL,  
ARCHITECT



ORIGINAL, EARLY MANTEL  
AT ONE END OF LOUNGE

SOCIAL ROOM



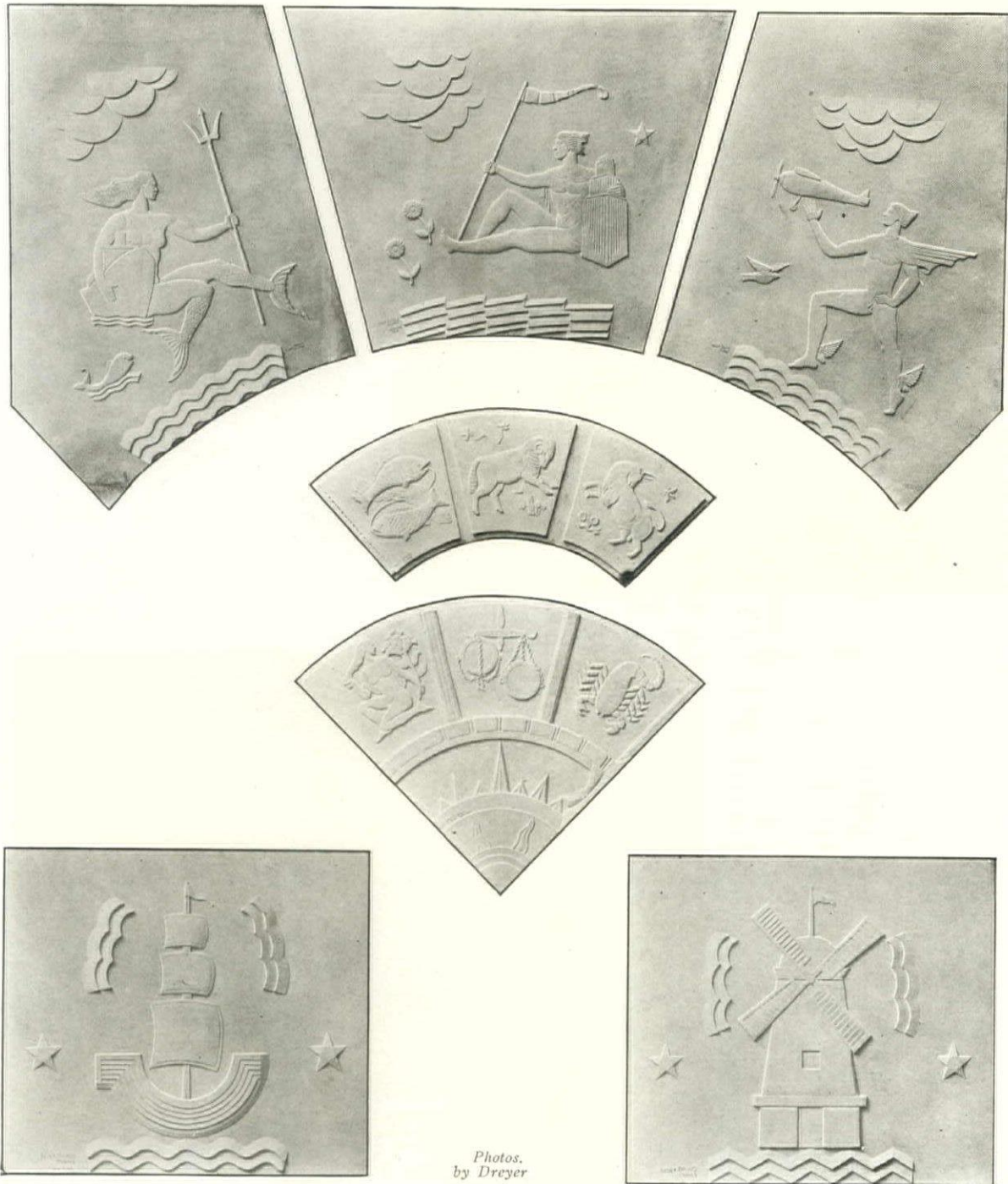
THE WOMEN'S CLUB  
RIDGEWOOD, N. J.

GEORGE S. KOYL  
OF RICH, MATHESIUS & KOYL,  
ARCHITECT



# SCULPTURE FOR A MODERN BUILDING

EXECUTED BY DAVID EVANS, SCULPTOR



*Photos.  
by Dreyer*

PLASTER CEILING DECORATIONS IN THE VESTIBULE OF A BUILDING AT BROADWAY AND 38TH STREET, NEW YORK. ELY JACQUES KAHN, ARCHITECT

SCULPTURE BY DAVID EVANS (Continued)



MODELS FOR BRONZE PANELS OF  
BAFFLE SCREEN, CITY BANK FAR-  
MERS' TRUST BUILDING, NEW YORK.  
CROSS & CROSS, ARCHITECTS



*Photos. Dreyer*



GARDEN FIGURES

OF ROMAN DEITIES



DIANA      HERCULES



NEPTUNE      OCEANUS



VENUS      APOLLO



First Prize: House of Mott B. Schmidt, Bedford, New York  
Mott B. Schmidt, Architect

## COMMON BRICK HOUSE COMPETITION

CONDUCTED BY

The Common Brick Manufacturers' Association of America

**I**N addition to the seven prize houses here illustrated, the eighth prize was awarded to Wyatt & Nolting, Baltimore, Md., for the residence of C. K. Wells, Jr.; the ninth prize to George M. Ewing, Philadelphia, Pa., for the "Crab Apple House"; the tenth prize to Harry Howe Bentley, Ravinia, Ill., for the residence of Henry Hammer.

The jury also selected the following entries as being worthy of special mention:

A. Harvey Stevenson, New York City	Fraser Residence
B. Robert Schmertz, Pittsburgh, Pa.	
C. Oliver R. Johnson, Jamestown, N. Y.	Garratt Residence
D. Arnold W. Heath, Boston, Mass.	Heath Residence
E. Louis Stevens, Pittsburgh, Pa.	Steel Residence
F. Rodgers & Poor, New York City	Hewlett Harbor Residence
G. E. B. Van Keuren, Birmingham, Ala.	
H. Raymond J. Percival, Hartford, Conn.	Withe Residence
I. William B. Betts, Chicago, Ill.	Armstrong Residence
J. David R. Williams, Dallas, Texas	McKie Residence
K. David R. Williams, Dallas, Texas	Clark Residence
L. Erling H. Pedersen, Philadelphia	Kendall Residence
M. Murchison & Gompert, New York City	Kienle Residence

N. Rodgers & Poor, New York City Rassapeague House  
O. William E. Linch, Columbus, Ohio Hartford Residence

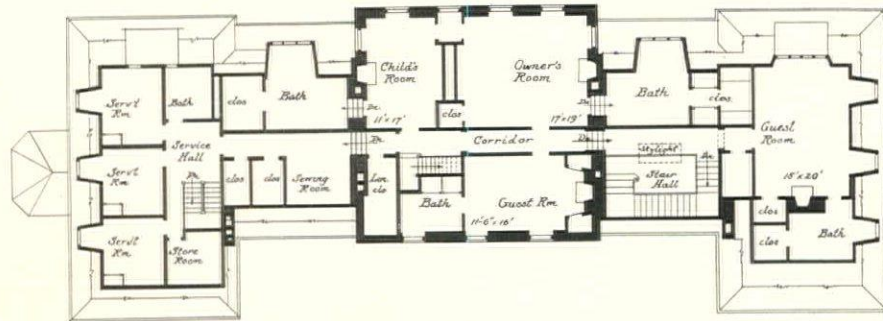
The report of the jury says, in part: "It was gratifying to us to learn that the first prize, which was the unanimous choice of the jury by a secret ballot, is the home of an architect. On the contrary, we consider it extremely unfortunate that it was necessary to eliminate one or two homes which had gained momentary positions among the first ten for prizes, when we learned that they were constructions of brick veneer, quite contrary to the wording and intent of the competition announcement.

"If it were permissible to add a word of advice to some who may desire to enter other competitions of this kind, it would be that competitors present their material in an artistic manner, and that they put greater emphasis on the quality of photography."

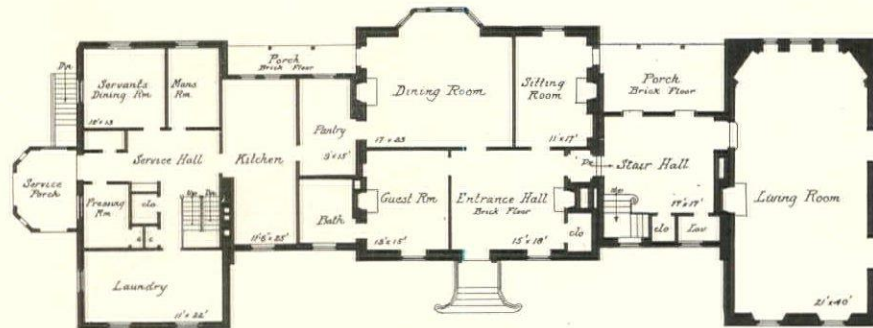
The jury consisted of Charles S. Schneider, Munroe W. Copper, Jr., and James H. Duthie.



First Prize: House of Mott B. Schmidt, Bedford, New York.  
Mott B. Schmidt, Architect



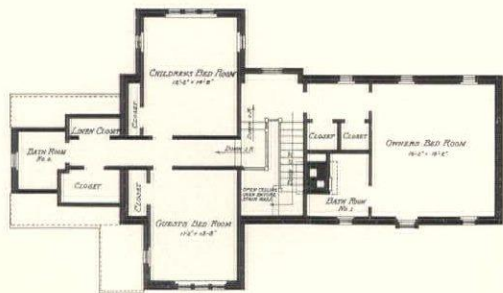
Second Floor Plan



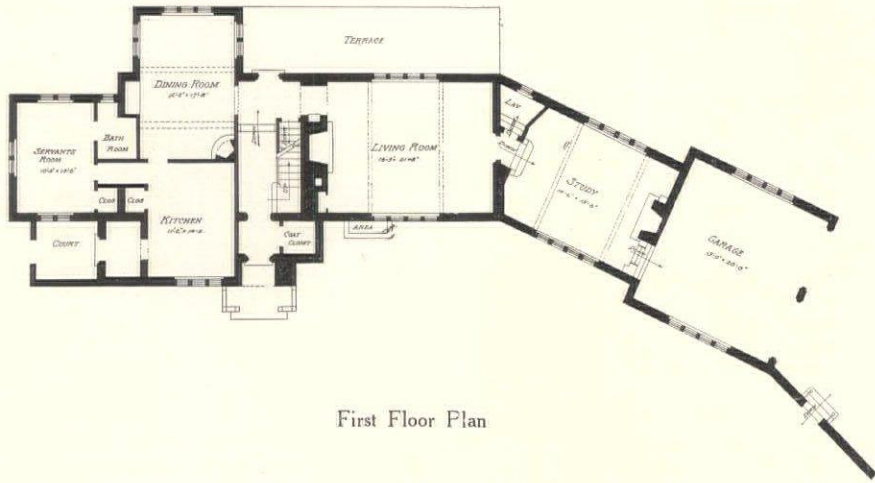
First Floor Plan



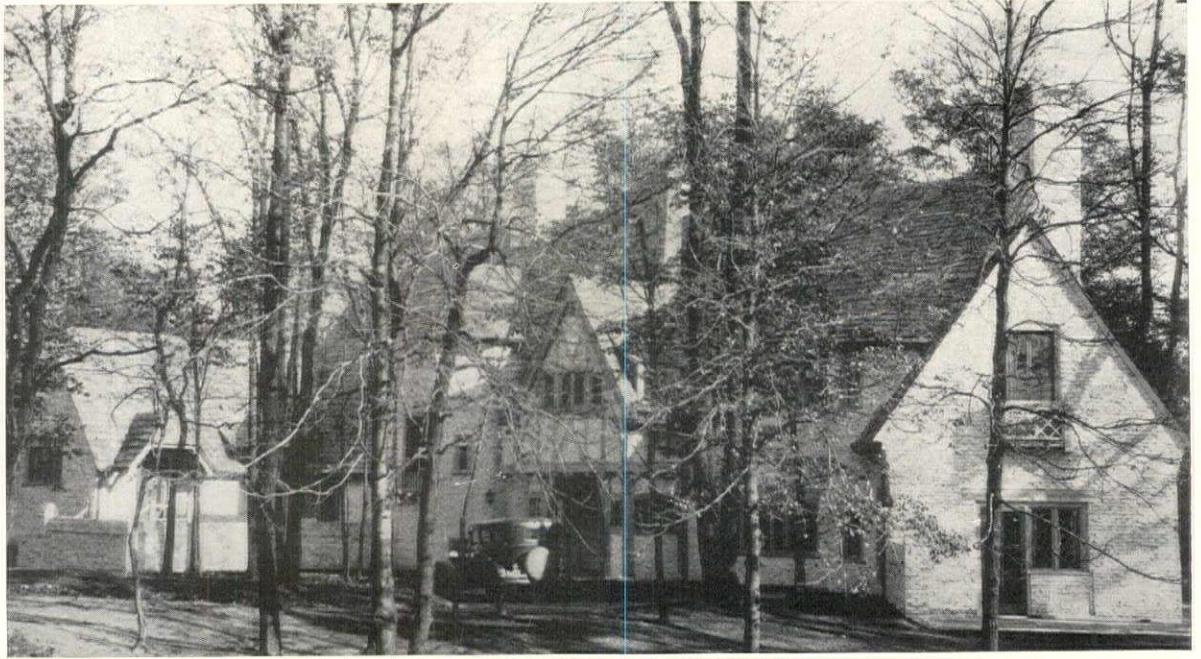
Second Prize: House of Nelson T. Hayes, South Norwalk, Conn. Philip S. Graham, Architect



Second Floor Plan



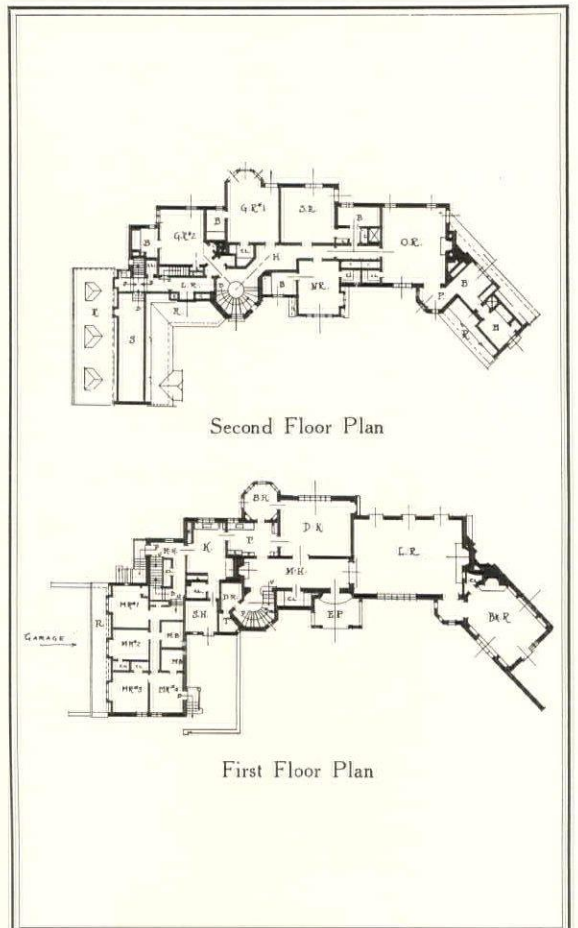
First Floor Plan

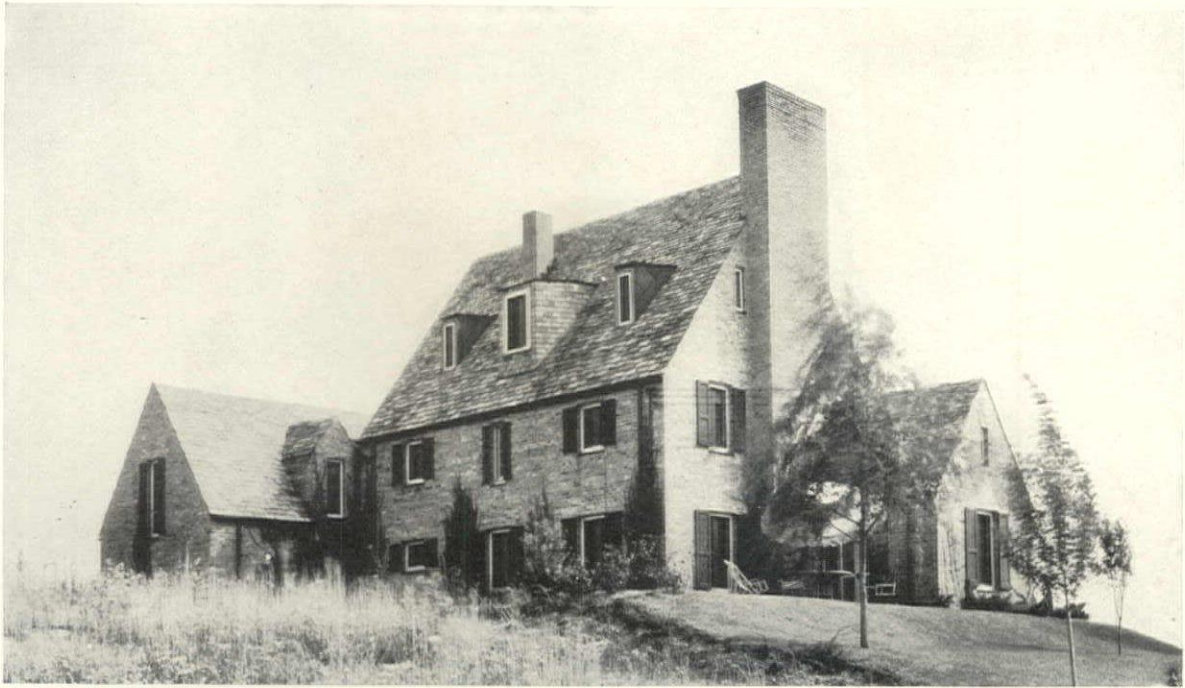


Third Prize: Residence  
of W. Wallace Rowe,  
Cincinnati, Ohio. John  
Henri Deekin, Architect

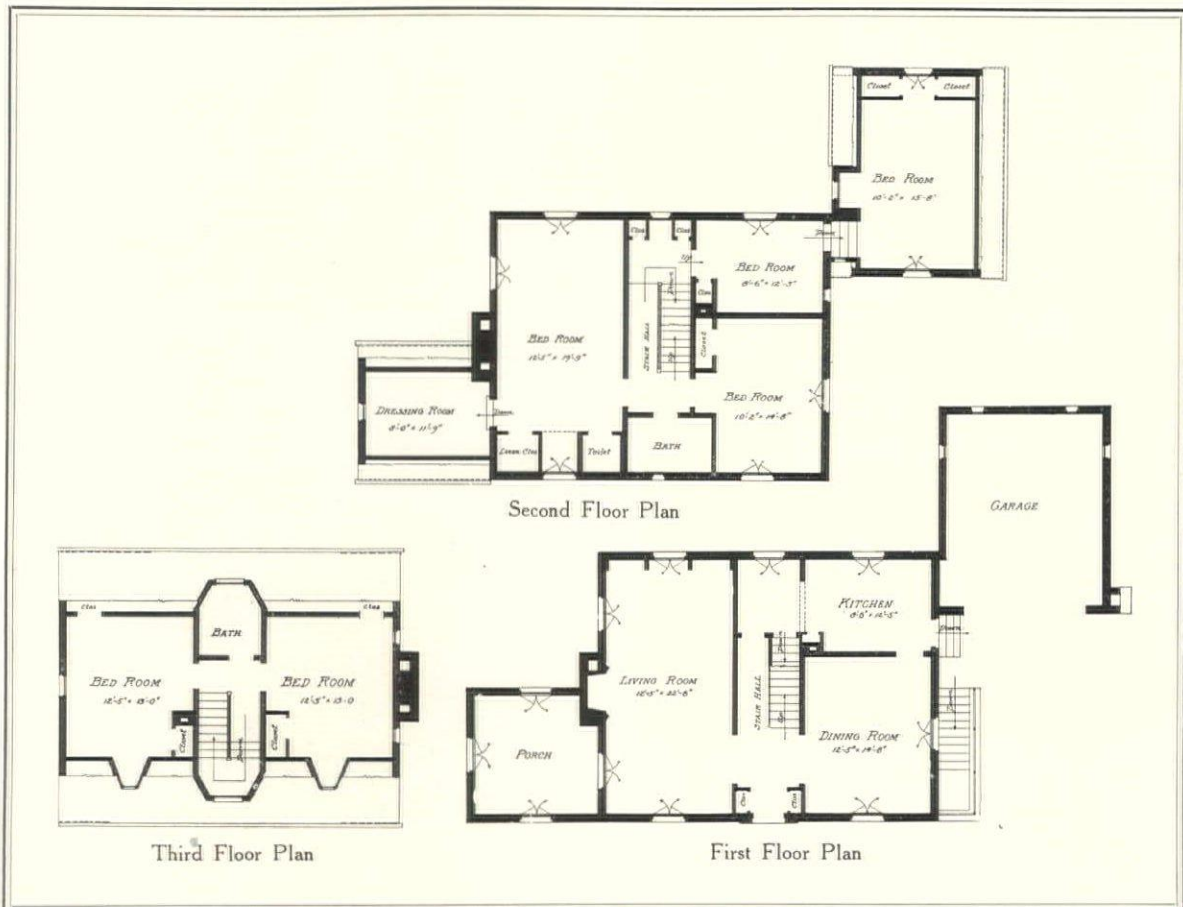


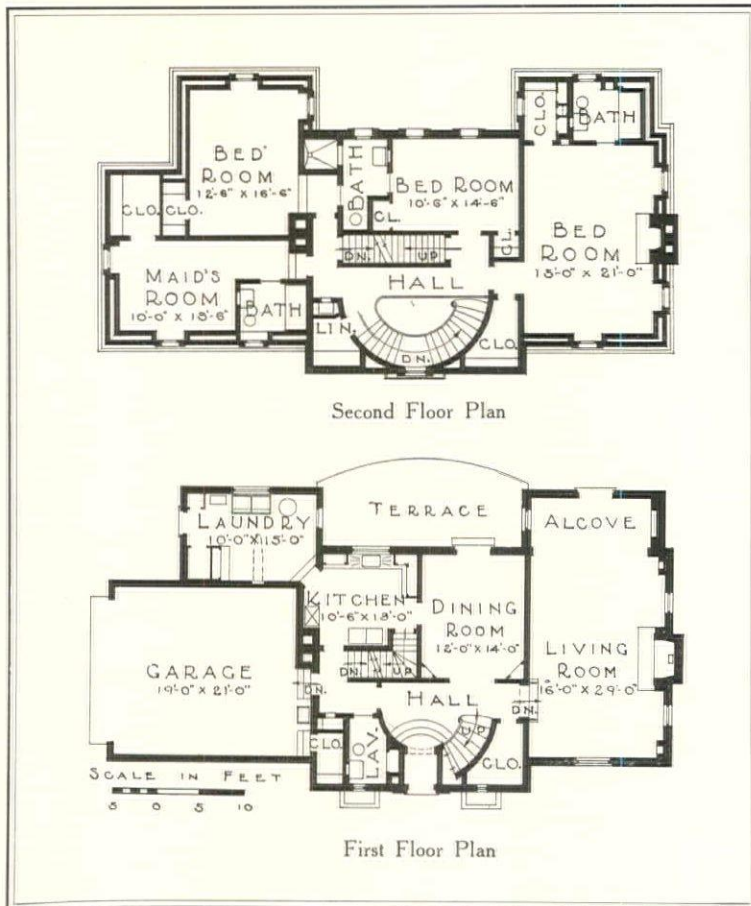
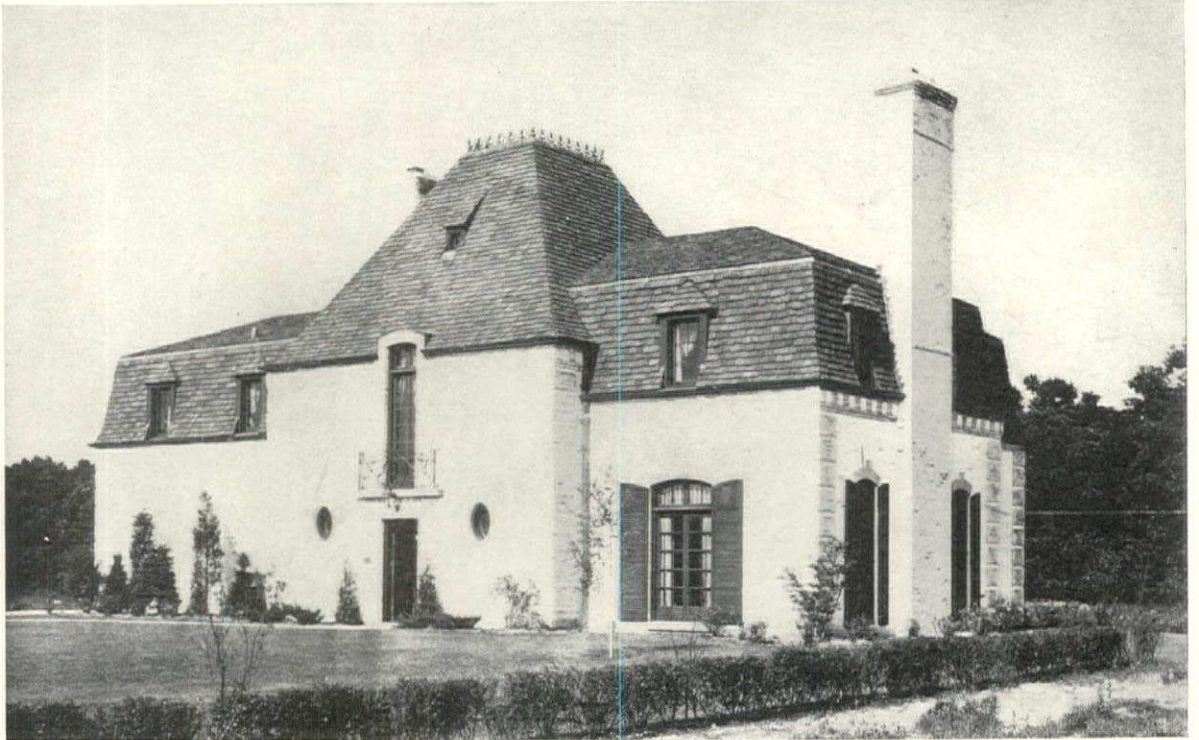
Entrance Porch





Fourth Prize: Residence of William Bruce McConnell, Mt. Lebanon, Pa. Albert A. Tappe, Architect



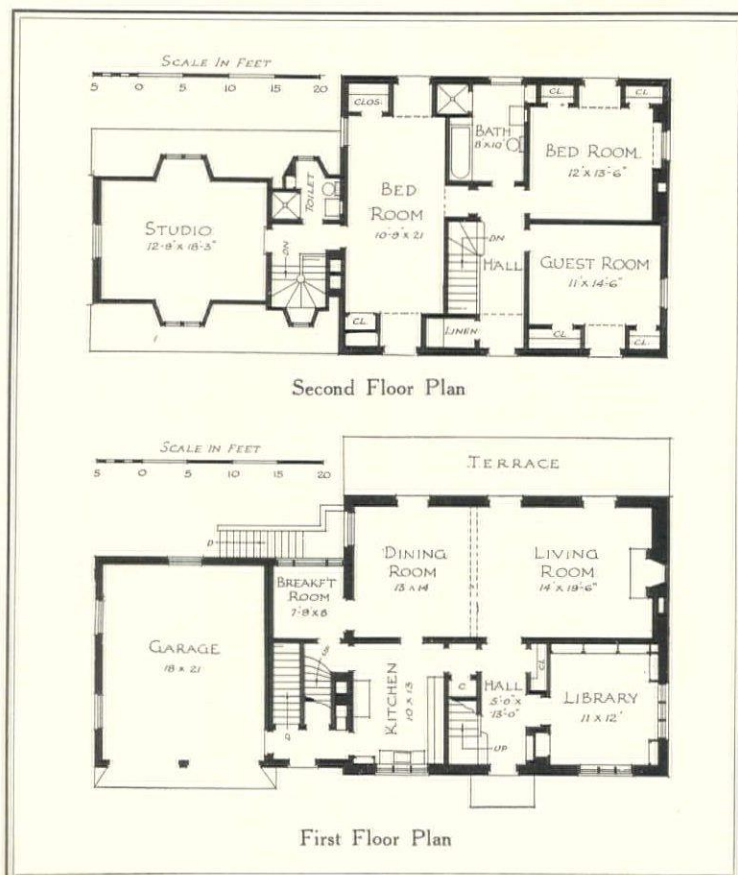


Fifth Prize: Residence of D. K. Winton. Field & Jenkins, Architects



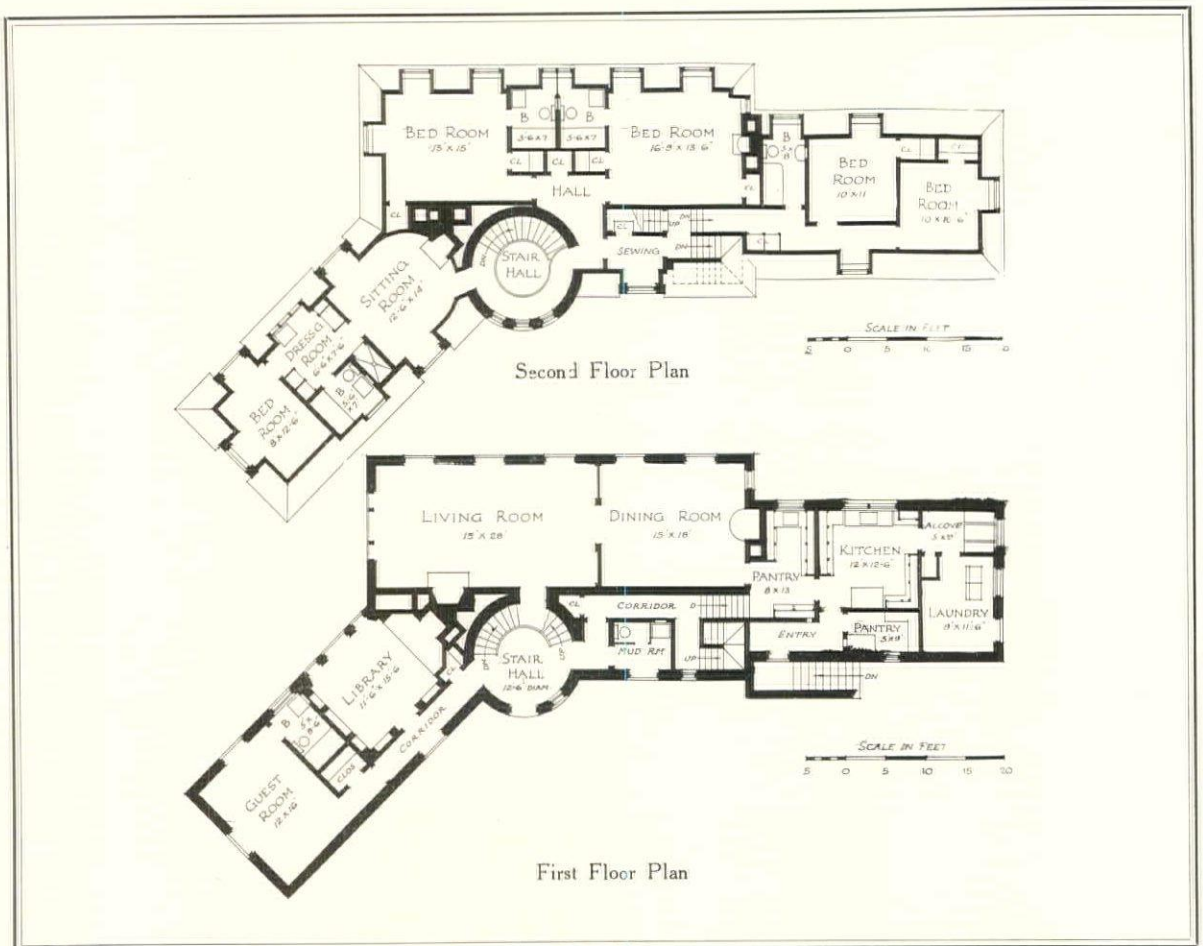


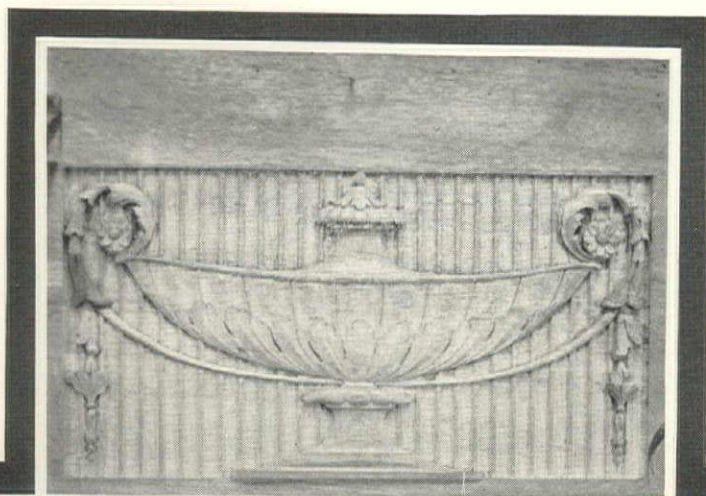
Sixth Prize: Residence of W. A. Kittridge, Evanston, Ill. A. Erwin Nicolai, Architect





Seventh Prize: Residence of A. F. Millet,  
Lake Forest, Ill., Russell S. Walcott, Architect





THIS EXQUISITE CARVING IS AN EXAMPLE OF THE SKILL AND FIDELITY WITH WHICH THE WOOD CARVING DIVISION OF THE AMERICAN CAR AND FOUNDRY COMPANY TRANSLATES THE DESIGN OF THE ARCHITECT.

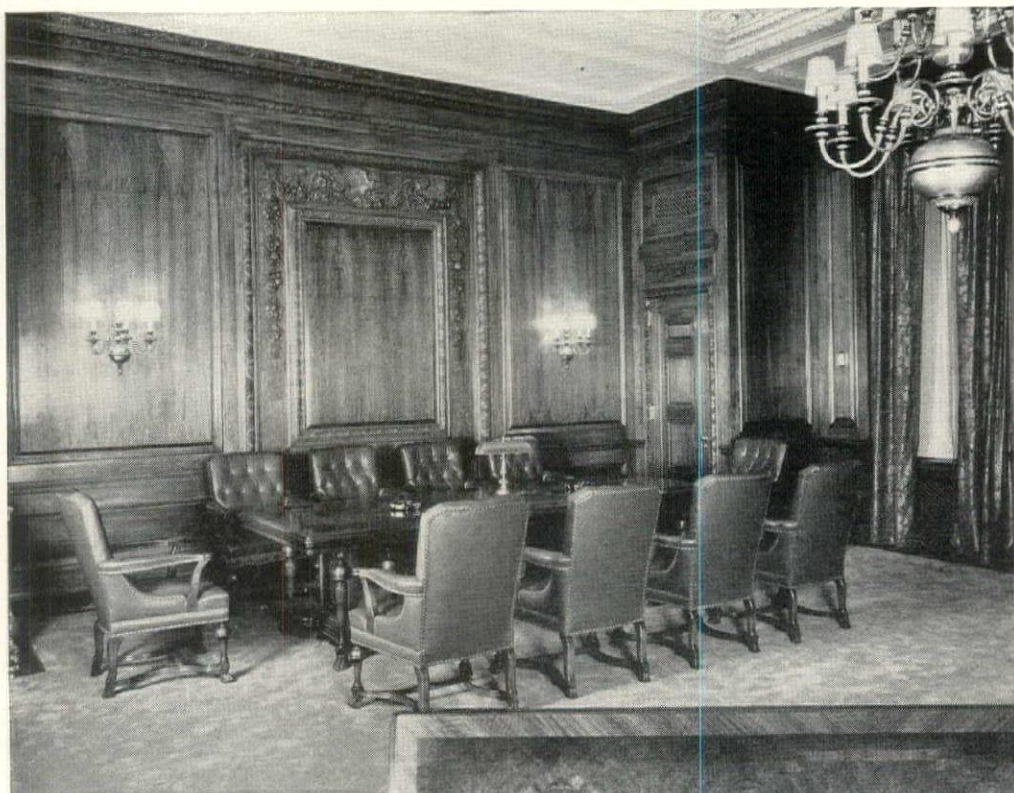
*Among the users of A.C.F. architectural woodcarvings will be found the following:*

ARCHITECTS: Carrere & Hastings, J. Walter Cope, Cram & Ferguson, Chas. L. Klauder, Delano & Aldrich, John M. Deibert, Tilton & Githens, Raleigh C. Gildersleeve, Bertram Grosvenor Goodhue Associates, Henry F. Hornbostel, Charles Platt, John Russell Pope, Albert H. Spahr, Warren & Wetmore, and Zantinger, Borie & Medary.

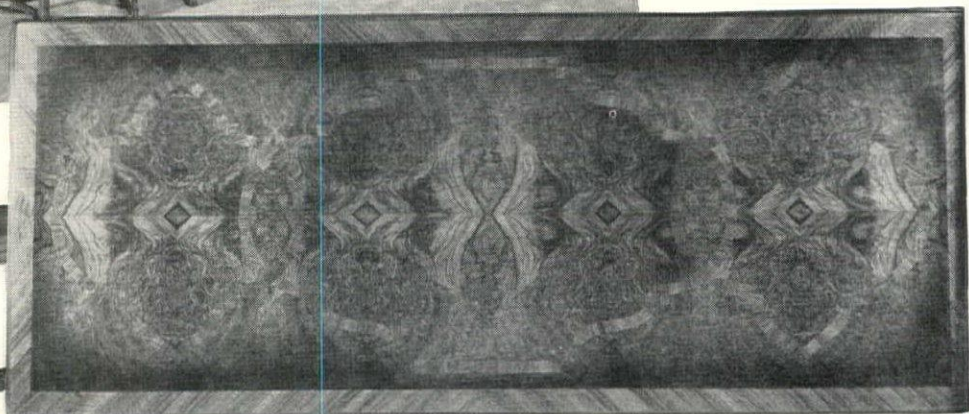
BUILDERS: John W. Barnes, Inc., duPont Engineering Company, Longwood Farms, Matthews Construction Co., Smyth Construction Co., James Stewart & Co., Inc., James L. Stuart.

ARCHITECTURAL  
WOOD CARVING

A.C.F.



Only  
Walnut  
Could  
Do  
This



This beautiful table-top serves as the artistic keynote for a magnificent Directors' Room. The entire top is made up of burl and highly figured veneers of American Walnut, with a graceful inlay ribbon and a border of striped wood. The furniture was manufactured by the Clemetsen Desk Company, Chicago, and was installed by Flint & Horner Co., New York. *Woodworkers:* Ferdinand Alexander, Brooklyn. *Architects:* Trowbridge & Livingston, New York.

LIKE gold in the hands of a Cellini, the decorative effects of American Walnut are limited only by the genius of the designer. So endlessly varying in pattern, so replete in possibilities for matching in new effects, veneers of American Walnut offer noteworthy mediums for the creation of designs of compelling interest, of unique charm. Yet because of walnut's depth

and softness of color, because of its traditional richness, it is never bizarre, never lacking in dignity.

We will be glad to co-operate with architects in the creation of new panels in which American Walnut alone is used or in which it is combined with other rare woods. A representative will show you many examples of new walnut panels.

AMERICAN WALNUT MANUFACTURERS' ASS'N, Room 1642, 616 South Michigan Avenue,



Chicago, Illinois

AMERICAN WALNUT

# *Kittinger Distinctive Furniture . . . in the Theta Delta Chi House at Cornell . . . . .*



Architect:  
Leon Stern  
Rochester  
N. Y.

Decorators:  
Flint and Kent  
Buffalo, N. Y.

© 1931, Kittinger Company

STEADILY increasing contacts with architects reveal their deep interest in visualizing the completed interior . . . furnished in harmony with the style of the building. In fact, there has been a noticeable growth in requests for room layouts which we are glad to provide without cost or obligation. Kittinger Distinctive Furniture is especially appropriate for larger residences, clubs, hotels and institutions. It is designed with careful regard for authentic,



traditional forms . . . thoughtfully adapted to modern usage. There are over 700 pieces, all constructed of solid cabinet woods exclusively.

You are cordially invited to visit any of the Kittinger showrooms and consult our representatives there . . . or write us in regard to our room-layout service, photographs and fabric selections. Address Kittinger Company, Dept. 500, N. Elmwood Ave., Buffalo, N. Y.

*Visit The Kittinger Showroom Nearest You.*

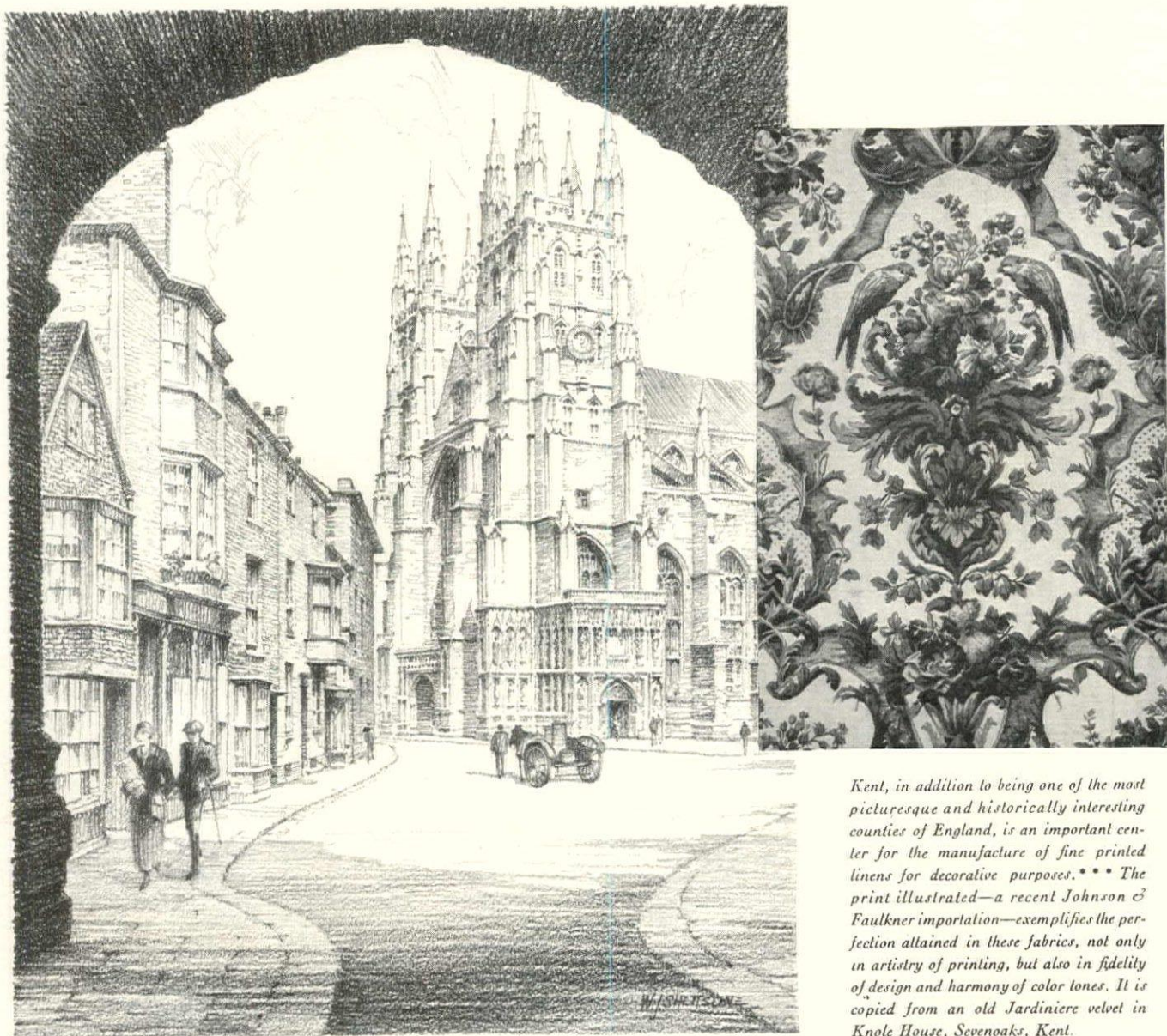
New York  
205 East 42d St.  
Los Angeles  
at Factory  
1300 S. Goodrich Blvd.

Chicago  
435 East Erie St.  
Buffalo  
at Factory  
1895 N. Elmwood Ave.



# KITTINGER

*Distinctive Furniture*



Canterbury Cathedral, Kent

*Kent, in addition to being one of the most picturesque and historically interesting counties of England, is an important center for the manufacture of fine printed linens for decorative purposes. . . . The print illustrated—a recent Johnson & Faulkner importation—exemplifies the perfection attained in these fabrics, not only in artistry of printing, but also in fidelity of design and harmony of color tones. It is copied from an old Jardiniere velvet in Knole House, Sevenoaks, Kent.*

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ESTABLISHED more than a century ago, Johnson & Faulkner for generations have been importing Old World fabrics to meet the most exacting requirements of the decorative trade. Decorators and their clients are cordially invited to visit the new Johnson & Faulkner Building, and to inspect, under ideal conditions, a comprehensive display of every type of high class fabric required in the decoration of the modern home.

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*Established 1823*

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SAN FRANCISCO  
442 Post Street

LOS ANGELES  
816 South Figueroa Street

# Selected List of Manufacturers' Publications

FOR THE SERVICE OF ARCHITECTS, ENGINEERS, DECORATORS, AND CONTRACTORS

The publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge unless otherwise noted, by applying on your business stationery to *The Architectural Forum*, 521 Fifth Ave., New York, or the manufacturer direct, in which case kindly mention this publication.

## ACOUSTICS

- R. Guastavino Co., 40 Court Street, Boston.  
Akoustolith Plaster. Brochure, 6 pp., 8½ x 11 ins. Akoustolith as Related to Architectural Acoustics. Booklet, 10 pp., 8½ x 11 ins.
- Johns-Manville Corporation, New York.  
Sound-Absorbing Treatment in Banks and Offices, Booklet, 18 pp., 8½ x 11 ins. Illustrated.
- Sound-Absorbing Treatment in Churches and Religious Institutions. Brochure. 22 pp., 8½ x 11 ins. Illustrated.

## ASH HOISTS

- Gillis & Geoghegan, Inc., 544 West Broadway, New York.  
G & G Telescopic Hoist catalog, 8½ x 11, A.I.A. Standard Classification 3011 contains complete descriptions, method of selecting correct model to fit the building's needs, scaled drawings showing space requirements and specifications.

## ASH HOISTS—TELESCOPIC

- Gillis & Geoghegan, Inc., 544 West Broadway, New York.  
G & G Telescopic Hoist catalog, 8½ x 11, A.I.A. Standard Classification 3011 contains complete descriptions, method of selecting correct model to fit the building's needs, scaled drawings showing space requirements and specifications.

## BRICK

- Hanley Company, Bradford, Pa.  
General Catalog. 16 pp., 8½ x 11 ins. Illustrated.  
Bradford Reds. Folder. 8 pp., 3 x 8 ins. Illustrated.

## CABINET WORK

- Henry Klein & Co., 25 Grand Street, Elmhurst, L. I., N. Y.  
Driewood Period Mouldings in Ornamented Wood. Brochure, 28 pp., 8½ x 11 ins. Illustrated.
- Ensemble Offices for the Banker and Broker. Folder. 4 pp., 8½ x 11 ins. Illustrated.
- Luxurious Office Partitions in Walnut, Mahogany and Quartered Oak. Folder. 4 pp., 8½ x 11 ins. Illustrated.

## CARPETS

- Collins & Aikman Corporation, 25 Madison Avenue, New York.  
"Seemingly Seamless Carpets." Booklet, 8 pp., 8½ x 11 ins. Illustrated.

## CEMENT

- Carney Company, The, Mankato, Minn.  
A Remarkable Combination of Quality and Economy. Booklet, 20 pp., 8½ x 11 ins. Illustrated. Important data on valuable material.
- Louisville Cement Co., 315 Guthrie St., Louisville, Ky.  
BRIXMENT for Perfect Mortar. Self-filing handbook, 8½ x 11 ins. 16 pp. Illustrated. Contains complete technical description of BRIXMENT for brick, tile and stone masonry, specifications, data and tests.
- Medusa Portland Cement Co., 1002 Engineers' Building, Cleveland.  
Medusa Waterproofed Gray Portland Cement. Booklet, 30 pp., 8½ x 11 ins. Illustrated.
- Medusa White Portland Cement, Non-Staining. Brochure, 30 pp., 8½ x 11 ins. Illustrated.
- Portland Cement Association, Chicago, Ill.  
Concrete Masonry Construction. Booklet, 48 pp., 8½ x 11 ins. Illustrated. Deals with various forms of construction.
- Town and Country Houses of Concrete Masonry. Booklet, 20 pp., 8½ x 11 ins. Illustrated.
- Facts About Concrete Building Tile. Brochure, 16 pp., 8½ x 11 ins. Illustrated.
- The Key to Firesafe Homes. Booklet, 20 pp., 8½ x 11 ins. Illustrated.
- Design and Control of Concrete Mixers. Brochure, 32 pp., 8½ x 11 ins. Illustrated.
- Portland Cement Stucco. Booklet, 64 pp., 8½ x 11 ins. Illustrated.
- Concrete in Architecture. Bound Volume, 60 pp., 8½ x 11 ins. Illustrated. An excellent work, giving views of exteriors and interiors.

## CHURCH EQUIPMENT

- John Van Range Co., Cincinnati.  
Practical Planning for Church Food Service. Booklet, 32 pp., 8½ x 11 ins. Illustrated.

## CLUB EQUIPMENT

- John Van Range Co., Cincinnati.  
Practical Planning for Club Food Service. Booklet, 32 pp., 8½ x 11 ins. Illustrated.

## CONCRETE BUILDING MATERIALS

- Concrete Steel Company, 2 Park Avenue, New York, N. Y.  
Modern Concrete Reinforcement. Booklet, 32 pp., 8½ x 11 ins. Illustrated.

## CONSTRUCTION, FIREPROOF

- National Fire Proofing Co., 250 Federal St., Pittsburgh, Pa.  
Standard Fire Proofing Bulletin 171. 8½ x 11 ins., 32 pp. Illustrated. A treatise on fireproof floor construction.

## CONSTRUCTION, STONE AND TERRA COTTA

- Cowing Pressure Relieving Joint Company, 100 North Wells St., Chicago, Ill.  
Pressure Relieving Joint for Buildings of Stone, Terra Cotta or Marble. Booklet, 16 pp., 8½ x 11 ins. Illustrated. Deals with preventing cracks, spalls and breaks.

## DAMP-PROOFING

- Minwax Company, Inc., 11 West 42nd St., New York.  
Complete Index of all Minwax Products. Folder, 6 pp., 8½ x 11 ins. Illustrated. Complete description and detailed specifications.
- Toch Brothers, New York, Chicago, Los Angeles.  
Handbook of R. I. W. Protective Products. Booklet, 40 pp., 4½ x 7½ ins.

## DOORS

- The Kawneer Company, Niles, Michigan.  
Detail sheet, 8½ x 11 ins., with A.I.A. File No. featuring Heavy Welded Bronze Doors.
- David Lupton's Sons Company, Philadelphia.  
Lupton Commercial Steel Doors. Folder. 8½ x 11 ins. Illustrated.  
Lupton Steel Industrial Doors. Brochure. 8 pp., 8½ x 11 ins. Illustrated. Details and specifications.

## DOORS AND TRIM, METAL

- The American Brass Company, Waterbury, Conn.  
Anaconda Architectural Bronze Extruded Shapes. Brochure, 180 pp., 8½ x 11 ins., illustrating and describing more than 2,000 standard bronze shapes of cornices, jamb casings, mouldings, etc.
- William Bayley Co., 147 North Street, Springfield, Ohio.  
Bayley Tubular Steel Doors. Brochure, 16 pp., 8½ x 11 ins. Illustrated.
- Kalman Steel Company, Chicago, Ill.  
Finishing Door Openings. A.I.A. file holder with 20 loose-leaf sheets of details and specifications.
- The Kawneer Company, Niles, Michigan.  
Detail sheet, 8½ x 11 ins., with A.I.A. File No. featuring Heavy Welded Bronze Doors.
- Richards-Wilcox Mfg. Co., Aurora, Ill.  
Fire-Doors and Hardware. Booklet, 8½ x 11 ins., 64 pp. Illustrated. Describes entire line of tin-clad and corrugated fire doors, complete with automatic closers, track hangers and all the latest equipment—all approved and labeled by Underwriters' Laboratories.
- Truscon Steel Company, Youngstown, Ohio.  
Copper Alloy Steel Doors. Catalog 110. Booklet, 48 pp., 8½ x 11 ins. Illustrated.

## DOORS, SOUNDPROOF

- Irving Hamlin, Evanston, Ill.  
The Evanston Soundproof Door. Folder, 8 pp., 8½ x 11 ins. Illustrated. Deals with a valuable type of door.

## DRAINAGE FITTINGS

- Josam Mfg. Co., Michigan City, Ind.  
Josam Products. Booklet, 73 pp., 8½ x 11 ins. Illustrated. A valuable line of accessories.  
Josam-Marsh Grease, Plaster, Sediment and Hair Interceptors. Brochure. 7 pp., 8½ x 11 ins. Illustrated.  
Josam New Saw Tooth-Roof Drain. Folder, 4 pp., 8½ x 11 ins. Illustrated.

### REQUEST FOR CATALOGS

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## SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 41

## DUMBWAITERS

**Sedgwick Machine Works**, 151 West 15th St., New York, N. Y.  
Catalog and Service Sheets. Standard specifications, plans and prices for various types, etc.  $4\frac{1}{4} \times 8\frac{1}{4}$  ins., 60 pp. Illustrated.  
Catalog and pamphlets,  $8\frac{1}{2} \times 11$  ins. Illustrated. Valuable data on dumbwaiters.

## ELECTRICAL EQUIPMENT

**Bryant Electric Co.**, Bridgeport, Conn.  
Catalog No. 30. Complete catalog of wiring devices  $8\frac{1}{2} \times 10\frac{1}{2}$  ins. 152 pp.  
An Electrical Specification. Contains information and data useful in connection with the writing of electrical specifications. Illustrated.  $8\frac{1}{2} \times 11$  ins. 12 pp.  
The Bryant Home of Ideas. Contains data and suggestions useful in connection with residence wiring  $8\frac{1}{2} \times 10$  ins. 16 pp.  
"KeNeX" and "HooKeX" Bulletin No. 5129. Contains data and specifications pertaining to devices for use in connection with the hanging of lighting fixtures, making such fixtures portable or removable, soldered joints being eliminated.  $8\frac{1}{2} \times 10$  ins. 6 pp.  
Hospital Signal Devices. Bulletin HS-622-RP. Complete information on hospital signal devices. Pull Control Type.  $8\frac{1}{2} \times 10$  ins. 46 pp.  
Hospital Signal Devices. Bulletin HS-1023. Magnetic Control Type.  $8\frac{1}{2} \times 10$  ins. 26 pp.  
**The Electric Storage Battery Co.**, Philadelphia.  
Emergency Lighting and Emergency Power Data. Booklet. 12 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated.  
**General Electric Co.**, Merchandise Dept., Bridgeport, Conn.  
Wiring System Specification Data for Apartment Houses and Apartment Hotels. Booklet, 20 pp.,  $8 \times 10$  ins. Illustrated.  
Electrical Specification Data for Architects. Brochure, 36 pp.,  $8 \times 10\frac{1}{2}$  ins. Illustrated. Data regarding G. E. wiring materials and their use.  
The House of a Hundred Comforts. Booklet, 40 pp.,  $8 \times 10\frac{1}{2}$  ins. Illustrated. Dwells on importance of adequate wiring.  
**Ward Leonard Electric Co.**, Mt. Vernon, N. Y.  
Mobile Color Lighting. Booklet, 46 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated. Valuable work on the subject.  
**Westinghouse Electric & Mfg. Co.**, East Pittsburgh, Pa.  
Electric Power for Buildings. Brochure, 14 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated. A publication important to architects and engineers.  
Variable-Voltage Central Systems as Applied to Electric Elevators. Booklet, 12 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated. Deals with an important detail of elevator mechanism.  
Modern Electrical Equipment for Buildings. Booklet,  $8\frac{1}{2} \times 11$  ins. Illustrated. Lists many useful appliances.  
Electrical Equipment for Heating and Ventilating Systems. Booklet, 24 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated. This is "Motor Application Circular 7379."  
Westinghouse Panelboards. Catalog 224. Booklet, 64 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated.  
Beauty; Power; Silence; Westinghouse Fans. (Dealer Catalog 45.) Brochure, 16 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated. Valuable information on fans and their uses.  
Electric Range Book for Architects (A. I. A. Standard Classification 31 G-4). Booklet, 24 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated. Cooking apparatus for buildings of various types.  
Westinghouse Commercial Cooking Equipment (Catalog 280). Booklet, 32 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated. Equipment for cooking on a large scale.  
Electric Appliances (Catalog 44-A). 32 pp.,  $8\frac{1}{2} \times 11$  ins. Deals with accessories for home use.

## ELEVATORS

**Otis Elevator Company**, 260 Eleventh Ave., New York, N. Y.  
Otis Push Button Controlled Elevators. Descriptive leaflets,  $8\frac{1}{2} \times 11$  ins. Illustrated. Full details of machines, motors and controllers for these types.  
Otis Geared and Gearless Traction. Elevators of All Types. Descriptive leaflets,  $8\frac{1}{2} \times 11$  ins. Illustrated. Full details of machines, motors and controllers for these types.  
Escalators. Booklet,  $8\frac{1}{2} \times 11$  ins., 22 pp. Illustrated. Describes use of escalators in subways, department stores, theaters and industrial buildings. Also includes elevators and dock elevators.  
**Richards-Wilcox Mfg. Co.**, Aurora, Ill.  
Elevators. Booklet,  $8\frac{1}{2} \times 11$  ins., 24 pp. Illustrated. Describes complete line of "Ideal" elevator door hardware and checking devices, also automatic safety devices.  
**Sedgwick Machine Works**, 151 West 15th St., New York, N. Y.  
Catalog and descriptive pamphlets,  $4\frac{1}{4} \times 8\frac{1}{4}$  ins., 70 pp. Illustrated. Descriptive pamphlets on hand power freight elevators, sidewalk elevators, automobile elevators, etc.

## ELEVATORS—Continued.

Catalog and pamphlets,  $8\frac{1}{2} \times 11$  ins. Illustrated. Important data on different types of elevators.

## ESCALATORS

**Otis Elevator Company**, 260 Eleventh Ave., New York, N. Y.  
Escalators. Booklet, 32 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated. A valuable work on an important item of equipment.

## FIREPROOFING

**Concrete Engineering Co.**, Omaha, Neb.  
Handbook of Fireproof Construction. Booklet, 54 pp.,  $8\frac{1}{2} \times 11$  ins. Valuable work on methods of fireproofing.  
**Concrete Steel Company**, 2 Park Avenue, New York, N. Y.  
Economical Fireproof Floors for Suburban Buildings. Folder. 4 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated.  
Havemeyer Steel Joist. The Joist with the Twin-Tee Chords. Booklet, 24 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated.  
**National Fire Proofing Company, Fulton Building, Pittsburgh, Pa.**  
Natco; The Complete Line of Structural Clay Tile. Booklet. 48 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated.  
Make the Facing Bear Its Share. Folder,  $8\frac{1}{2} \times 11$  ins. Illustrated.  
Unibacker, The Tile That Binds. Folder,  $8\frac{1}{2} \times 11$  ins. Illustrated.  
Face Tile Walls. Folder,  $8\frac{1}{2} \times 11$  ins. Illustrated.  
Meeting Every Need. Folder,  $8\frac{1}{2} \times 11$  ins. Illustrated.  
Natco Vitritile. Folder,  $8\frac{1}{2} \times 11$  ins. Illustrated.  
Natco Double Shell Load Bearing Tile. Folder,  $8\frac{1}{2} \times 11$  ins. Illustrated.

## FLOODLIGHTING

**National Terra Cotta Society**, 230 Park Avenue, New York, N. Y.  
Terra Cotta Buildings Are Superior for Floodlighting. Brochure, 16 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated.

## FLOOR HARDENERS (CHEMICAL)

**Minwax Company**, 11 West 42nd Street, New York, N. Y.  
Concrete Floor Treatments. Folder, 4 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated.  
**Toch Brothers**, New York, Chicago, Los Angeles.  
Handbook of R. I. W. Protective Products. Booklet, 40 pp.,  $4\frac{1}{2} \times 7\frac{1}{2}$  ins.

## FLOORS—STRUCTURAL

**Concrete Steel Company**, 2 Park Avenue, New York, N. Y.  
Havemeyer Steel Joist. The Joist with the Twin-Tee Chords. Booklet, 24 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated.  
**Truscon Steel Co.**, Youngstown, Ohio.  
Truscon Floretyle Construction. Booklet,  $8\frac{1}{2} \times 11$  ins., 16 pp. Illustrations of actual jobs under construction. Lists of properties and information on proper construction. Proper method of handling and tables of safe loads.  
**Structural Gypsum Corporation**, Linden, N. J.  
Gypsteel Pre-cast Fireproof Floors. Booklet, 36 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated. Data on flooring.  
Service Sheet No. 3. Specifications and Details of Design and Construction for Gypsteel Pre-Cast Floors and Ceilings. Folder,  $8\frac{1}{2} \times 11$  ins. Illustrated.

## FLOORING

**Armstrong Cork Co. (Flooring Division)**, Lancaster, Pa.  
Armstrong's Linoleum Floors. Catalog,  $8\frac{1}{2} \times 11$  ins., 44 pp. Color plates. A technical treatise on linoleum, including table of gauges and weights and specifications for installing linoleum floors. Newly revised, February, 1929.  
Armstrong's Linoleum Pattern Book, 1929. Catalog, 9 x 12 ins., 44 pp. Color plates. Reproduction in color of all patterns of linoleum and cork carpet in the Armstrong line.  
Linoleum Layer's Handbook. 5 x 7 ins., 36 pp. Instructions for linoleum layers and others interested in learning most satisfactory methods of laying and taking care of linoleum.  
Enduring Floors of Good Taste. Booklet, 6 x 9 ins., 48 pp. Illustrated in color. Explains use of linoleum for offices, stores, etc., with reproductions in color of suitable patterns, also specifications and instructions for laying.  
**Blabon-Sandura Company, Inc.**, Finance Building, Philadelphia.  
Blabon's Linoleum Styles for 1930. Booklet, 64 pp.,  $6\frac{1}{4} \times 8\frac{1}{2}$  ins. Illustrated.  
Detailed Instructions for Handling and Laying Linoleum. Brochure, 40 pp.,  $3\frac{1}{4} \times 5\frac{1}{4}$  ins. Illustrated.  
Blabon's Linoleum Floors and Where You Will Find Them. Booklet, 8 pp.,  $8\frac{1}{2} \times 11$  ins. Illustrated.  
Comparison of Tests. Folder,  $8\frac{1}{2} \times 11$  ins. Illustrated.

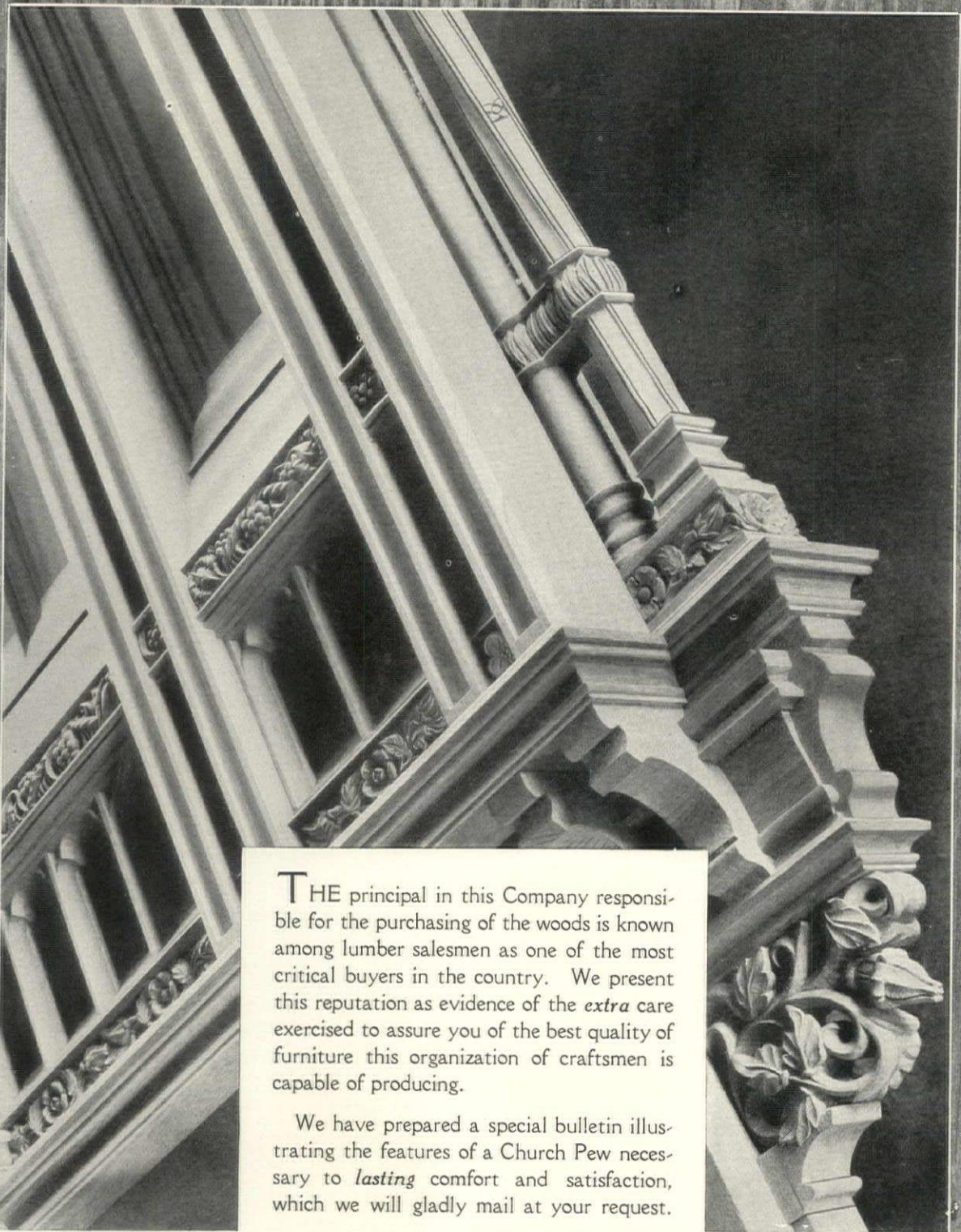
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## SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 42

## FLOORING—Continued

- Congoleum-Nairn, Inc.**, 195 Belgrove Drive, Kearny, N. J.  
Facts you should know about Resilient Floors. A series of booklets on floors for (1) schools, (2) hospitals, (3) offices, (4) stores, (5) libraries, (6) churches, (7) Clubs and Lodges, (8) apartments and hotels. Illustrated.  
Specifications for Resilient Floors. Booklet, 12 pp. A reprint from Sweet's.  
A New Kind of Floor Service. Brochure, 8 pp. Data on Bonded Floors.  
Sealex Battleship Linoleum. Booklet, 12 pp. Illustrated. Shows typical installations.  
Sealex Treadlite Tiles. Two booklets, 8 and 16 pp. Illustrated.  
Colonial Planks. Brochure, 8 pp. Illustrated.  
**Goodyear Tire & Rubber Co., Inc.**, Akron, Ohio.  
Beautiful Floors, Architects' Reference Book. Brochure, 32 pp., 8½ x 11 ins. Illustrated. Valuable data on flooring.  
Rubber Flooring News. Monthly publications, 8½ x 11 ins. Illustrated. Giving data on flooring for buildings of many types.  
Manual of Goodyear Rubber Tile Installation Booklet. 7¼ x 10¾ ins. Illustrated.  
**C. Pardee Works**, 101 Park Ave., New York, N. Y., and 1600 Walnut St., Philadelphia, Pa.  
Pardee Tiles. Bound Volume, 48 pp., 8½ x 11 ins. Illustrated.  
**Stedman Rubber Flooring Company**, South Braintree, Mass.  
Stedman Ray-Proof Rubber. Booklet, 12 pp., 5½ x 8 ins. Illustrated. For X-ray Rooms.  
Stedman Tile, The Original Reinforced Rubber Floor. Booklet, 16 pp., 8½ x 11 ins. Illustrated. Valuable data on flooring.  
**Structural Gypsum Corporation**, Linden, N. J.  
Gypsteel Pre-cast Fireproof Floors. Booklet, 36 pp., 8½ x 11 ins. Illustrated. Data on floorings.

## FURNITURE

- American Seating Co.**, 14 E. Jackson Blvd., Chicago, Ill.  
Art Ecclesiastical Booklet, 6 x 9 ins., 48 pp. Illustrations of church fittings in carved wood.  
Theatre Chairs. Booklet, 6 x 9 ins., 48 pp. Illustrations of theatre chairs.  
**Kittinger Co.**, 1893 Elmwood Ave., Buffalo, N. Y.  
Kittinger Club & Hotel Furniture. Booklet, 20 pp., 6½ x 9½ ins. Illustrated. Deals with fine line of furniture for hotels, clubs, institutions, schools, etc.  
Kittinger Club and Hotel Furniture. Booklet, 20 pp., 6 x 9 ins. Illustrated. Data on furniture for hotels and clubs.  
A Catalog of Kittinger Furniture. Booklet, 78 pp., 11 x 14 ins. Illustrated. General Catalog.

## GLASS CONSTRUCTION

- Libbey-Owens Sheet Glass Co.**, Toledo, Ohio.  
Flat Glass. Brochure, 12 pp., 5½ x 7¾ ins. Illustrated. History of manufacture of flat, clear, sheet glass.

## GREENHOUSES

- King Construction Company**, North Tonawanda, N. Y.  
King Greenhouses for Home or Estate. Portfolio of half-tone prints, varnishes, 8¼ x 10½ ins.  
**William H. Lutton Company**, 267 Kearney Ave., Jersey City, N. J.  
Greenhouses of Quality. Booklet, 50 pp., 8½ x 11 ins. Illustrated. Conservatories making use of Lutton Patented Galvanized Steel V-Bar.

## GYPSUM

- Structural Gypsum Corporation**, Linden, N. J.  
Service Sheet No. 1. Specifications and Details of Design and Construction for Gypsteel Pre-Cast Long-Span Roofs. Folder, 8½ x 11 ins. Illustrated. Service Sheet No. 2. Specifications and Details of Design and Construction for Gypsteel Pre-Cast Short-Span Roofs. Folder, 8½ x 11 ins. Illustrated.  
Service Sheet No. 3. Specifications and Details of Design and Construction for Gypsteel Fireproof Pre-Cast Floors and Ceilings. Folder, 8½ x 11 ins. Illustrated.  
Service Sheet No. 5. Specifications and Details of Design and Construction for Gypsteel Pre-Cast Assembled Slab Roofs. Folder, 8½ x 11 ins. Illustrated.

## HARDWARE

- P. & F. Corbin**, New Britain, Conn.  
Early English and Colonial Hardware. Brochure, 8½ x 11 ins. An important illustrated work on this type of hardware.  
Locks and Builders' Hardware. Bound Volume, 486 pp., 8½ x 11 ins. An exhaustive, splendidly prepared volume.  
Colonial and Early English Hardware. Booklet, 48 pp., 8½ x 11 ins. Illustrated. Data on hardware for houses in these styles.  
Corbin Door Closers, 8½ x 11 ins. A description of the principles of design and performance of Corbin door closers.

## HARDWARE—Continued

- Automatic Exit Fixtures, 8½ x 11 ins. A catalog of hardware for exit and entrance doors to auditoriums.  
**Cutler Mail Chute Company**, Rochester, N. Y.  
Cutler Mail Chute Model F. Booklet, 4 x 9¼ ins., 8 pp. Illustrated.  
**Richards-Wilcox Mfg. Co.**, Aurora, Ill.  
Distinctive Garage Door Hardware. Booklet, 8½ x 11 ins., 66 pp. Illustrated. Complete information accompanied by data and illustrations on different kinds of garage door hardware.  
Distinctive Elevator Door Hardware. Booklet, 90 pp., 10½ x 16 ins. Illustrated.  
**Russell & Erwin Mfg. Co.**, New Britain, Conn.  
Hardware for the Home. Booklet, 24 pp., 3½ x 6 ins. Deals with residence hardware.  
Door Closer Booklet. Brochure, 16 pp., 3½ x 6 ins. Data on a valuable detail.  
Garage Hardware. Booklet, 12 pp., 3½ x 6 ins. Hardware intended for garage use.  
Famous Homes of New England. Series of folders on old homes and hardware in style of each.  
**Todhunter, Inc.**, 119 East 57th St., New York, N. Y.  
Colonial Hardware. Booklet, 12 pp., 8½ x 11 ins. Illustrated. Deals with hardware of the best type for exterior and interior use.

## HEATING EQUIPMENT

- American Blower Co.**, 6004 Russell St., Detroit, Mich.  
Heating and Ventilating Utilities. A binder containing a large number of valuable publications, each 8½ x 11 ins., on these important subjects.  
**American Radiator Company, The**, 40 West 40th St., N. Y. C.  
Ideal Boilers for Oil Burning. Catalog 5½ x 8½ ins., 36 pp. Illustrated in 4 colors. Describing a line of Heating Boilers especially adapted to use with Oil Burners.  
Corto—The Radiator Classic. Brochure, 5½ x 8½ ins., 16 pp. Illustrated. A brochure on a space-saving radiator of beauty and high efficiency.  
Ideal Arcola Radiator Warmth. Brochure, 6¼ x 9½ ins. Illustrated. Describes a central all-on-one-floor heating plant with radiators for small residences, stores, and offices.  
How Shall I Heat My Home? Brochure, 16 pp., 5¼ x 8½ ins. Illustrated. Full data on heating and hot water supply.  
New American Radiator Products. Booklet, 44 pp., 5 x 7¾ ins. Illustrated. Complete line of heating products.  
A New Heating Problem. Brilliantly Solved. Broadside, 4 pp., 10¼ x 15 ins. Illustrated. Data on the 1N-AIRID invisible air valve.  
In-Airid, the Invisible Air Valve. Folder, 8 pp., 3½ x 6 ins. Illustrated. Data on a valuable detail of heating.  
The 999 ARCO Packless Radiator Valve. Folder, 8 pp., 3½ x 6 ins. Illustrated.  
**Bryant Heater & Mfg. Co.**, 17825 St. Clair Ave., Cleveland, Ohio.  
Handbook on Heating Buildings with Bryant Gas Furnaces. Booklet, 12 pp., 8½ x 11 ins. Illustrated.  
Handbook on Heating Water with Bryant Gas Boilers. Brochure, 20 pp., 8½ x 11 ins. Illustrated.  
Handbook on Heating Buildings with Bryant Gas Boilers. Booklet, 20 pp., 8½ x 11 ins. Illustrated.  
**James B. Clow & Sons**, 534 S. Franklin St., Chicago, Ill.  
Clow Gasteam Vented Heating System. Brochure, 24 pp., 8½ x 11 ins. Illustrated. Deals with a valuable form of heating equipment for using gas.  
**D.G.C. Trap & Valve Co.**, 1 East 43rd St., New York, N. Y.  
Cryer Radiator Control Valve. Bulletin, 8½ x 11 ins., 12 pp. Illustrated. Explains operation and advantages of this radiator control valve on two-pipe vapor, vacuum or gravity steam systems.  
**C. A. Dunham Company**, 450 East Ohio St., Chicago, Ill.  
Dunham Radiator Trap. Bulletin 101, 8 x 11 ins., 12 pp. Illustrated. Explains working of this detail of heating apparatus.  
Dunham Packless Radiator Valves. Bulletin 104, 8 x 11 ins., 8 pp. Illustrated. A valuable brochure on valves.  
Dunham Return Heating System. Bulletin 109, 8 x 11 ins. Illustrated. Covers the use of heating apparatus of this kind.  
Dunham Vacuum Heating System. Bulletin 110, 8 x 11 ins., 12 pp. Illustrated.  
The Dunham Differential Vacuum Heating System. Bulletin 114. Brochure, 12 pp., 8 x 11 ins. Illustrated. Deals with heating for small buildings.  
The Dunham Differential Vacuum Heating System. Bulletin 115. Brochure, 12 pp., 8 x 11 ins. Illustrated. Deals with heating for large buildings.  
Dunham Built Dwyer Unit Heaters. Booklet, 31 pp., 8½ x 11 ins. Illustrated.

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## SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 44

## HEATING EQUIPMENT—Continued

- The Fulton Sylphon Company, Knoxville, Tenn.**  
Sylphon Temperature Regulators. Illustrated brochures, 8½ x 11 ins., dealing with general architectural and industrial applications; also specifically with applications of special instruments.  
Sylphon Heating Specialties. Catalog No. 200, 192 pp., 3½ x 6¼ ins. Important data on heating.
- Hoffman Specialty Company, Inc., 25 West 45th St., New York, N. Y.**  
Heat Controlled With the Touch of a Finger. Booklet, 46 pp., 5¼ x 8¼ ins. Illustrated.
- How to Lock Out Air, the Heat Thief. Brochure, 48 pp., 5 x 7¼ ins. Illustrated.
- Janette Manufacturing Company, 556 West Monroe Street, Chicago.**  
More Heat from Any Hot Water System on Less Fuel. Folder. 4 pp., 8½ x 11 ins. Illustrated. Deals with use of the "Hydro-lator."
- S. T. Johnson Co., Oakland, Calif.**  
Johnson Oil Burners. Booklet, 9 pp., 8½ x 11 ins. Illustrated.  
Bulletin No. 4A. Brochure, 8 pp., 8½ x 11 ins. Illustrated. Data on different kinds of oil-burning apparatus.  
Bulletin No. 31. Brochure, 8 pp., 8½ x 11 ins. Illustrated. Deals with Johnson Rotary Burner with Full Automatic Control.
- Kewanee Boiler Corporation, Kewanee, Ill.**  
Kewanee on the Job. Catalog, 8½ x 11 ins., 80 pp. Illustrated. Showing installations of Kewanee boilers, water heaters, radiators, etc.  
Catalog No. 78, 6 x 9 ins. Illustrated. Describes Kewanee Fire-box Boilers with specifications and setting plans.  
Catalog No. 79, 6 x 9 ins. Illustrated. Describes Kewanee water boilers and smokeless tubular boilers with specifications.
- McQuay Radiator Corporation, 35 East Wacker Drive, Chicago, Ill.**  
McQuay Visible Type Cabinet Heater. Booklet, 4 pp., 8½ x 11 ins. Illustrated. Cabinets and radiators adaptable to decorative schemes.  
McQuay Concealed Radiators. Brochure, 4 pp., 8½ x 11 ins. Illustrated.  
McQuay Unit Heater. Booklet, 8 pp., 8½ x 11 ins. Illustrated. Gives specifications and radiator capacities.
- Modine Mfg. Co., Racine, Wisc.**  
Modine Copper Radiation. Booklet, 28 pp., 8½ x 11 ins. Illustrated. Deals with industrial, commercial and domestic heating.  
A Few Short Years. Folder. 4 pp., 8½ x 11 ins. Illustrated. Heating for garages.  
Dairy Plant Heating. Folder. 4 pp., 8½ x 11 ins. Illustrated.  
Industrial Heating. Folder. 4 pp., 8½ x 11 ins. Illustrated.  
Modine Unit Heater. Folder. 6 pp., 8½ x 11 ins. Illustrated.
- Nash Engineering Company, South Norwalk, Conn.**  
Bulletin 85. Booklet, 12 pp., 10¼ x 7½ ins. Illustrated in color. Describes construction and operation of the Jennings Return Line Vacuum Heating Pump.  
Bulletin 87. Brochure. 8 pp., 10¼ x 7½ ins. Illustrated in color. Deals with Sizes T and U Jennings Vacuum Heating Pump for 2500 and 5000 square feet equivalent direct radiation.  
Bulletin 63. Booklet. 4 pp., 10¼ x 7½ ins. Illustrated. Describes in detail the Unit Type Motor Driven Jennings Condensation Pump.
- National Radiator Corporation, Johnstown, Pa.**  
The Crimson Flame. Folder, 6 pp., 4½ x 7 ins. Illustrated. Contento Brings Contentment to Your Home. Folder, 12 pp., 3½ x 6 ins. Illustrated.  
National Jacketed Boiler. Folder, 4 pp., 8½ x 11 ins. Illustrated.  
National Super-Smokeless Boiler. Folder, 4 pp., 8½ x 11 ins. Illustrated.  
Aero, the National Radiator Sizes and Ratings. Booklet, 16 pp., 5 x 7½ ins. Illustrated.
- Sarco Company, Inc., 183 Madison Ave., New York City, N. Y.**  
Steam Heating Specialties. Booklet, 6 pp., 6 x 9 ins. Illustrated. Data on Sarco Packless Supply Valves and Radiator Traps for vacuum and vapor heating systems.  
Equipment Steam Traps and Temperature Regulations. Booklet, 6 pp., 6 x 9 ins. Illustrated. Deals with Sarco Steam Traps for hospital, laundry and kitchen fixtures and the Sarco Self-contained Temperature Regulation for hot water service tanks.
- B. F. Sturtevant Company, Hyde Park, Boston, Mass.**  
Tempervane Heating Units. Catalog 363. Booklet, 44 pp., 8½ x 11 ins. Illustrated. Data on "Heating Every Corner with Maximum Economy."
- U. S. Blower & Heater Corporation, Minneapolis, Minn.**  
Blowers, Heaters and Washers. Booklet, 64 pp., 8½ x 11 ins. Illustrated.

## HOISTS, TELESCOPIC

- Gillis & Geoghegan, Inc. 535 West Broadway, New York.**  
G & G Telescopic Hoist. Booklet. 24 pp. 8½ x 11 ins. Illustrated complete data on hoists.  
Ash Removal. Folder. 8½ x 11 ins. Illustrated. Hoists for removing ashes from basements.

## HOSPITAL EQUIPMENT

- Bryant Electric Co., Bridgeport, Conn.**  
Hospital Signal Devices. Bulletin HS-622-RP. Complete information on hospital signal devices. Pull Control Type. 8½ x 10 ins. 46 pp.  
Hospital Signal Devices. Bulletin HS-1023. Magnetic Control Type. 8½ x 10 ins. 26 pp.
- The Frink Co., Inc., 369 Lexington Ave., New York City.**  
Catalog 426. 7 x 10 ins., 16 pp. A booklet illustrated with photographs and drawings, showing the types of lights for use in hospitals, as operating table reflectors, linolite and multilite concentrators, ward reflectors, bed lights and microscopic reflectors, giving sizes and dimensions, explaining their particular fitness for special uses.
- The International Nickel Company, 67 Wall St., New York, N. Y.**  
Hospital Applications of Monel Metal. Booklet, 8½ x 11½ ins., 16 pp. Illustrated. Gives types of equipment in which Monel Metal is used, reasons for its adoption, with sources of such equipment.
- John Van Range Co., Cincinnati, Ohio.**  
Practical Planning for Hospital Food Service. Brochure, 62 pp., 8½ x 11 inches. Illustrated.
- Wilmot Castle Company, Union Trust Bldg., Rochester, N. Y.**  
The Hospital Sterilizer Data Sheets. Booklet, 16 pp., 8½ x 11 ins. Illustrated. Data on planning sterilizer installations.

## HOTEL EQUIPMENT

- Pick-Barth Company, Inc., Albert, 1200 West 35th St., Chicago, and 34 Cooper Square, New York.**  
Some Thoughts on Furnishing a Hotel. Booklet, 7½ x 9 ins. Data on complete outfitting of hotels.

## INCINERATORS

- Josam Mfg. Co., Michigan City, Ind.**  
Josam-Graver Incinerators. Folder, 4 pp., 8½ x 11 ins. Illustrated.
- Kerner Incinerator Company, 715 E. Water St., Milwaukee, Wis.**  
Incinerators (Chimney-fed). Catalog No. 18 (Architect and Builders' Edition). Size 8½ x 11 ins., 20 pp. Illustrated. Describes principles 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.  
Sanitary Elimination of Household Waste. Booklet, 4 x 9 ins. 16 pp. Illustrated. Gives complete information on the Kernerator for residences.  
Garbage and Waste Disposal for Apartment Buildings. Folder, 8½ x 11 ins., 16 pp. Illustrated. Describes principle and design of Kernerator Chimney-fed Incinerator for apartments and gives list of buildings where it has been installed.  
Sanitary Disposal of Waste in Hospitals. Booklet, 4 x 9 ins., 12 pp. Illustrated. Shows how this necessary part of hospital service is taken care of with the Kernerator. Gives list of hospitals where installed.  
Estate Type Kernerator, for Estates and Country Homes. Booklet, 8 pp., 8½ x 11 inches. Illustrated.

## INSULATION

- Armstrong Cork & Insulation Co., Pittsburgh, Pa.**  
The Insulation of Roofs with Armstrong's Corkboard. Booklet. Illustrated. 7½ x 10½ ins., 32 pp. Discusses means of insulating roofs of manufacturing or commercial structures.  
Insulation of Roofs to Prevent Condensation. Illustrated booklet, 7½ x 10½ ins., 36 pp. Gives full data on valuable line of roof insulation.  
Filing Folder for Pipe Covering Data. Made in accordance with A. I. A. rules.  
The Cork-lined House Makes a Comfortable Home. 5 x 7 ins. 32 pp. Illustrated.  
Armstrong's Corkboard. Insulation for Walls and Roofs of Buildings. Booklet, 66 pp., 9½ x 11¼ ins. Illustrates and describes use of insulation for structural purposes.
- Cork Import Corporation, 345 West 40th Street, New York.**  
Novoid Cork Covering for Cold Pipes, Coolers and Tanks. Folder 8½ x 11 ins. Illustrated.  
Novoid Corkboard Insulation. Folder 8½ x 11 ins. Illustrated.
- Structural Gypsum Corporation, Linden, N. J.**  
Heat Insulation Value of Gypsteel. Folder, 4 pp., 8½ x 11 ins. Brochure, by Charles L. Norton, of M. I. T.

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Reynolds & Manley Lumber Co., Savannah, Ga.  
Weaver-Loughridge Lumber Co., Boyd, Fla.  
Weis-Patterson Lumber Co., Pensacola, Fla.  
A. Wilbert's Sons Lbr. & Shgl. Co., Plaquemine, La.  
F. B. Williams Cypress Co., Ltd., Patterson, Louisiana  
Wilson Cypress Co., Palatka, Fla.

## SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 46

### JOISTS

- Concrete Steel Company**, 2 Park Avenue, New York, N. Y.  
 Havemeyer Steel Joist. The Joist with the Twin-Tee Chords. Booklet, 24 pp., 8½ x 11. Illustrated.
- Modern Concrete Reinforcement. Brochure, 32 pp., 8½ x 11 ins. Illustrated.
- Standard Practice for Placing Havemeyer Reinforcement in Columns, Beams and Slabs. Data sheets, 8½ x 11 ins. Illustrated.
- Kalman Steel Company**, Chicago, Ill.  
 Steel Joists. Brochure, 20 pp., 8½ x 11 ins. Joists and accessories. Firesafe Floor and Roof Construction. Booklet, 8 pp., 8½ x 11 ins. Joists, lath and accessories.

### KITCHEN EQUIPMENT

- The International Nickel Company**, 67 Wall St., New York, N. Y.  
 Hotels, Restaurants and Cafeteria Applications of Monel Metal. Booklet, 8½ x 11 ins., 32 pp. Illustrated. Gives types of equipment in which Monel Metal is used, with service data and sources of equipment.
- John Van Range Co.**, Cincinnati.  
 Practical Planning for Church Food Service. Booklet, 32 pp., 8½ x 11 ins. Illustrated.
- Practical Planning for Club Food Service. Booklet, 32 pp., 8½ x 11 ins. Illustrated.
- Practical Planning for School Food Service. Booklet, 32 pp., 8½ x 11 ins. Illustrated.
- Planning Restaurants That Make Money. Booklet, 78 pp., 8½ x 11 ins. Illustrated. Excellent work on equipment.
- Practical Planning for Hospital Food Service. Brochure, 62 pp., 8½ x 11 inches. Illustrated.

### LABORATORY EQUIPMENT

- Alberene Stone Co.**, 153 West 23rd Street, New York City.  
 Booklet, 8¾ x 11¼ ins., 26 pp. Stone for laboratory equipment, shower partitions, stair treads, etc.
- Duriron Company**, Dayton, Ohio.  
 Duriron Acid, Alkali and Rust-proof Drain Pipe and Fittings. Booklet, 8¾ x 11 ins., 20 pp. Full details regarding a valuable form of piping.

### LANTERNS

- Todhunter, Inc.**, 119 East 57th St., New York, N. Y.  
 Lanterns. Booklet, 16 pp., 8½ x 11 ins. Illustrated. Deals with a fine assortment of fixtures for exterior and interior use.

### LATH, METAL AND REINFORCING

- Concrete Steel Company**, 2 Park Avenue, New York, N. Y.  
 Havemeyer Building Products, Booklet, 40 pp., 8½ x 11 ins. Illustrated.
- Kalman Steel Company**, Chicago, Ill.  
 Firesafe Building Products. Booklet, 20 pp., 8½ x 11 ins. Lath, fireplace accessories, beads, etc.
- Milcor Steel Co.**, Milwaukee.  
 The Milcor Manual. Booklet, 96 pp., 8½ x 11 ins. Illustrated. Data on metal lath and similar materials.
- Milcor Metal Ceiling Catalog. Booklet, 288 pp., 8½ x 11 ins. Illustrated. Data on metal ceiling and wall construction.
- National Steel Fabric Co.**, Pittsburgh, Pa.  
 Better Walls for Better Homes. Brochure, 16 pp., 7¾ x 11¼ ins. Illustrated. Metal lath, particularly for residences.
- Steelex for Floors. Booklet, 24 pp., 8½ x 11 ins. Illustrated.
- Combined reinforcing and form for concrete or gypsum floors and roofs.
- Steelex Data Sheet No. 1. Folder, 8 pp., 8½ x 11 ins. Illustrated. Steeltex for floors on steel joists with round top chords.
- Steelex Data Sheet No. 2. Folder, 8 pp., 8½ x 11 ins. Illustrated. Steeltex for floors on steel joists with flat top flanges.
- Steelex Data Sheet No. 3. Folder, 8 pp., 8½ x 11 ins. Illustrated. Steeltex for folders on wood joists.
- Truscon Steel Company**, Youngstown, Ohio.  
 Truscon ¾-inch Hy-Rib for Roofs, Floors and Walls. Booklet, 8½ x 11 ins., illustrating Truscon ¾-inch Hy-Rib as used in industrial buildings. Plates of typical construction. Progressive steps of construction. Specification and load tables.

### LAUNDRY MACHINERY

- American Laundry Machinery Co.**, Norwood Station, Cincinnati, O.  
 Functions of the Hotel and Hospital Laundry. Brochure, 8 pp., 8½ x 11 ins. Valuable data regarding an important subject.
- Laundry Equipment of Small Hotels, Hospitals and Institutions. Booklet, 36 pp., 8½ x 11 ins. Illustrated.

### LAUNDRY MACHINERY—Continued

- Troy Laundry Machinery Co., Inc.**, 9 Park Place, New York City.  
 Laundry Machinery for Large Institutions. Loose-leaf booklet, 50 pp., 8½ x 11 ins. Illustrated.
- Laundry Machinery for Small Institutions. Loose-leaf brochure, 50 pp., 8½ x 11 ins. Illustrated.
- Accessory Equipment for Institutional Laundries. Leather bound book, 50 pp., 8½ x 11 ins. Illustrated.
- Dry Cleaning Equipment for Institutional Purposes. Brochure, 50 pp., 8½ x 11 ins. Illustrated.

### LIGHTING EQUIPMENT

- The Frink Co., Inc.**, 369 Lexington Ave., New York, N. Y.  
 Catalog 415, 8½ x 11 ins., 46 pp. Photographs and scaled cross-sections. Specialized bank lighting, screen and partition reflectors, double and single desk reflectors and Polaralite Signs.
- Gleason Tiebout Glass Company**, 67 West 44th St., New York, N. Y.  
 Fragment of Celestialite. Booklet, 24 pp., 7 x 10 ins. Illustrated. Data on lighting for offices, schools, hospitals, etc.
- Celestialite Catalog 727. Booklet, 18 pp., 8½ x 11 ins. Illustrated. Valuable brochure on lighting.
- Smyser-Royer Co.**, 1700 Walnut Street, Philadelphia, Pa.  
 Catalog "J" on Exterior Lighting Fixtures. Brochure, illustrated, giving data on over 300 designs of standards, lanterns and brackets of bronze or cast iron.
- Todhunter**, 119 East 57th St., New York, N. Y.  
 Lighting Fixtures, Lamps and Candlesticks. 24 pp., 8½ x 11 ins. Illustrated. Fine assortment of lighting accessories.
- Westinghouse Electric & Manufacturing Co.**, East Pittsburgh, Pa.  
 Industrial Lighting Equipment. Booklet, 32 pp., 8½ x 11 ins. Illustrated.
- Commercial Lighting. Brochure, 24 pp., 8½ x 11 ins. Illustrated.
- Airport and Floodlighting Equipment. Booklet, 20 pp., 8½ x 11 ins. Illustrated.

### MAIL CHUTES

- Cutler Mail Chute Company**, Rochester, N. Y.  
 Cutler Mail Chute Model F. Booklet, 4 x 9¼ ins., 8 pp. Illustrated.

### MANTELS

- Henry Klein & Co., Inc.** 40-46 West 23rd Street, New York.  
 Driwood Mantels. Booklet. 12 pp. 8½ x 11 ins. Illustrated. Fine line of eighteenth century English and American mantels.
- Todhunter, Inc.**, 119 East 57th St., New York, N. Y.  
 Georgian Mantels. Brochure, 12 pp., 8½ x 11 ins. Illustrated. Illustrates and describes an excellent assortment of fine mantels based on Georgian precedent.

### MARBLE

- The Georgia Marble Company**, Tate, Ga.; New York Office, 1328 Broadway.  
 Why Georgia Marble Is Better. Booklet, 3¾ x 6 ins. Gives analysis, physical qualities, comparison of absorption with granite, opinions of authorities, etc.
- Convincing Proof. 3¾ x 6 ins., 8 pp. Classified list of buildings and memorials in which Georgia Marble has been used, with names of Architects and Sculptors.
- Hurt Building, Atlanta; Senior High School and Junior College, Muskegon, Mich. Folders, 4 pp., 8½ x 11 ins. Details.

### METALS

- The International Nickel Company**, 67 Wall St., New York, N. Y.  
 Monel Metal Primer. 8 folders, 4 pp., 8½ x 11 ins. Illustrated. Valuable data on use of monel in kitchens, laundries, etc.

### MILL WORK—See also Wood

- Curtis Companies Service Bureau**, Clinton, Iowa.  
 Your Dream Kitchen, Booklet, 11 pp., 7¼ x 10½ ins. Illustrated. Fine line of fittings for kitchens, breakfast alcoves, etc.
- Hartmann-Sanders Company**, 2155 Elston Ave., Chicago, Ill.  
 Column Catalog, 7½ x 10 ins., 48 pp. Illustrated. Contains prices on columns 6 to 36 ins. diameter, various designs and illustrations of columns and installations.
- The Pergola Catalog. 7½ x 10 ins., 64 pp. Illustrated. Contains illustrations of pergola lattices, garden furniture in wood and cement, garden accessories.

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3. General Howard S. Borden residence, Rumson, N. J., George S. Chappell, Architect.

4. Thos. A. Edison Junior High School, West Orange, N. J., Guilbert

& Betelle, Architects.

5. State Capitol Building, Raleigh, N. C., Atwood Nash Inc., Architects.

6. United Piece Dye Works, Lodi, New Jersey.

7. Richmond Borough Hall, St. George, S. I., Carrere and Hastings, Architects.

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## SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 48

## MILL WORK—Continued

- Klein & Co., Inc., Henry**, 11 East 37th St., New York, N. Y.  
Two Driwood Interiors. Folder, 4 pp., 6¼ x 9 ins. Illustrated. Use of moulding for paneling walls.
- A New Style in Interior Decoration. Folder, 4 pp., 6¼ x 9 ins. Illustrated. Deals with interior woodwork.
- Driwood Period Mouldings in Ornamented Wood. Booklet, 28 pp., 8½ x 11 ins. Illustrated.
- How Driwood Period Mouldings in Ornamented Wood Set a New Style in Decoration. Folder.
- Roddis Lumber and Veneer Co.**, Marshfield, Wis.  
Roddis Doors. Brochure, 24 pp., 5¼ x 8½ ins. Illustrated price list of doors for various types of buildings.
- Roddis Doors, Catalog G. Booklet, 184 pp., 8½ x 11 ins. Completely covers the subject of doors for interior use.
- Roddis Doors for Hospitals. Brochure, 16 pp., 8½ x 11 ins. Illustrated work on hospital doors.
- Roddis Doors for Hotels. Brochure, 16 pp., 8½ x 11 ins. Illustrated work on doors for hotel and apartment buildings.

## ORNAMENTAL PLASTER

- Jacobson & Company**, 239 East 44th Street, New York.  
A Book of Modern Design. Booklet, 44 pp., 9 x 12 ins. Illustrated. Decorative plaster, particularly for ceilings.

## PAINTS, STAINS, VARNISHES AND WOOD FINISHES

- Medusa Portland Cement Co.**, Engineers' Building, Cleveland.  
"How to Paint Concrete and Masonry Surfaces." Booklet, 16 pp., 8½ x 11 ins. Illustrated.
- Minwax Company, Inc.**, 11 West 42nd St., New York.  
Color Card and Specifications for Minwax Brick and Cement Coating. Folder, 4 pp., 8½ x 11 ins. Illustrated.
- National Lead Company**, 111 Broadway, New York, N. Y.  
Handy Book on Painting. Book, 5½ x 3¼ ins., 100 pp. Gives directions and formulae for painting various surfaces of wood, plaster, metals, etc., both interior and exterior.
- Red Lead in Paste Form. Booklet, 6¼ x 3½ ins., 16 pp. Illustrated. Directions and formulae for painting metals.
- Came Lead. Booklet, 6 x 8¼ ins., 12 pp. Illustrated. Describes various styles of lead comes.
- Toch Brothers**, New York, Chicago, Los Angeles.  
Architects' Specification Data. Sheets in loose leaf binder, 8½ x 11 ins., dealing with an important line of materials.

## PARTITIONS

- Circle A. Products Corporation**, New Castle, Ind.  
Circle A. Partitions Sectional and Movable. Brochure. Illustrated. 8½ x 11¼ ins., 32 pp. Full data regarding an important line of partitions, along with Erection Instructions for partitions of three different types.
- Irving Hamlin**, Evanston, Ill.  
Hamlinized Folding Partitions Made from Hamlin's Evanston Soundproof Doors, Sectional and Movable. Folder, 4 pp., 8½ x 11 ins. Illustrated.
- Hauserman Company, E. F.**, Cleveland, Ohio.  
Movable Steel Partitions for sub-dividing office and industrial space. Folders on complete line, 8½ x 11, giving full data on the different types of steel partitions with details, elevations and specifications. Also 40-page Architects' Portfolio AIA—28A3, containing 20 full page plates of practical office layouts.
- Hollow Steel Standard Partitions. Various folders, 8½ x 11 ins. Illustrated. Give full data on different types of steel partitions, together with details, elevations and specifications.
- Henry Klein & Co.**, 25 Grand Street, Elmhurst, L. I., N. Y.  
Telesco Partition. Catalog, 8¼ x 11 ins., 14 pp. Illustrated. Shows typical offices laid out with Telesco partitions, cuts of finished partition units in various woods. Gives specifications and cuts of buildings using Telesco.
- Detailed Instructions for Erecting Telesco Partitions. Booklet, 24 pp., 8½ x 11 ins. Illustrated. Complete instructions, with cuts and drawings, showing how easily Telesco Partition can be erected.
- Improved Office Partition Co.**, 25 Grand St., Elmhurst, L. I., N. Y. (See Henry Klein & Co.)

## PARTITIONS—Continued

- Richards-Wilcox Mfg. Co.**, Aurora, Ill.  
Partitions. Booklet, 7 x 10 ins., 32 pp. Illustrated. Describes complete line of track and hangers for all styles of sliding parallel, accordion and flush-door partitions.
- Structural Gypsum Corporation**, Linden, N. J.  
Service Sheet No. 4. Specifications for Gypsteel Partition File. Folder, 8½ x 11 ins. Illustrated.
- Telesco Office Partition**, 25 Grand St., Elmhurst, L. I., N. Y. (See Henry Klein & Co.)

## PIPE

- American Brass Company**, Waterbury, Conn.  
Bulletin B-1. Brass Pipe for Water Service. 8½ x 11 ins., 28 pp. Illustrated. Gives schedule of weights and sizes (I.P.S.) of seamless brass and copper pipe, shows typical installations of brass pipe, and gives general discussion of the corrosive effect of water on iron, steel and brass pipe.
- Anaconda Pipe For Water Distribution. Booklet, 30 pp., 8½ x 11¼ ins. Illustrated. Data on brass and red brass piping.
- American Rolling Mill Company**, Middletown, Ohio.  
How AKMCO Dredging Products Cut Costs. Booklet, 16 pp., 6 x 9 ins. Data on dredging pipe.
- Bethlehem Steel Company**, Bethlehem, Pa.  
Bethlehem Wrought Steel Pipe, Catalog P. Booklet, 20 pp., 4¼ x 7¼ ins. Illustrated.
- Clow & Sons, James B.**, 534 S. Franklin St., Chicago, Ill.  
Catalog A. 4 x 16½ ins., 700 pp. Illustrated. Shows a full line of steam, gas and water works supplies.
- Duriron Company**, Dayton, Ohio.  
Duriron Acid, Alkali, Rust-proof Drain Pipe and Fittings. Booklet, 20 pp., 8½ x 11 ins. Illustrated. Important data on a valuable line of pipe.
- Maurice A. Knight**, Akron, Ohio.  
Knightware in the Princeton Chemical Laboratory. Booklet, 16 pp., 6¼ x 8½ ins. Illustrated.
- National Tube Co.**, Frick Building, Pittsburgh, Pa.  
"National" Bulletin No. 2. Corrosion of Hot Water Pipe, 8½ x 11 ins., 24 pp. Illustrated. In this bulletin is summed up the most important research dealing with hot water systems. The text matter consists of seven investigations by authorities on this subject.
- "National" Bulletin No. 3. The Protection of Pipe Against Internal Corrosion, 8½ x 11 ins., 20 pp. Illustrated. Discusses various causes of corrosion, and details are given of the deactivating and deaerating systems for eliminating or retarding corrosion in hot water supply lines.
- "National" Bulletin No. 25. "National" Pipe in Large Buildings. 8½ x 11 ins., 88 pp. This bulletin contains 254 illustrations of prominent buildings of all types, containing "National" Pipe, and considerable engineering data of value to architects, engineers, etc.
- Modern Welded Pipe. Book of 88 pp., 8½ x 11 ins., profusely illustrated with halftone and line engravings of the important operations in the manufacture of pipe.
- Walworth Company**, Statler Office Building, Boston, Mass.  
C. N. I. Pipe Manual. Booklet, 18 pp., 4¼ x 7½ ins. Illustrated. Approved Valves and Fittings for Fire Lines in New York. Folder, 6 pp., 8½ x 11 ins. Illustrated.

## PLASTER

- Best Bros. Keene's Cement Co.**, Medicine Lodge, Kans.  
Information Book. Brochure, 24 pp., 5 x 9 ins. Lists grades of plaster manufactured; gives specifications and uses for plaster.
- Plasterers' Handbook. Booklet, 16 pp., 3½ x 5½ ins. A small manual for use of plasterers.
- Interior Walls Everlasting. Brochure, 20 pp., 6¼ x 9¼ ins. Illustrated. Describes origin of Keene's Cement and views of buildings in which it is used.
- Structural Gypsum Corporation**, Linden, N. J.  
Plaster Time Book. Booklet, 4 x 7 ins., 48 pp. Illustrated. Gives specifications, yardage, and general instructions for using Gypsteel Gypsum Plasters.

## PLUMBING EQUIPMENT

- Clow & Sons, James B.**, 534 S. Franklin St., Chicago, Ill.  
Catalog M. 9¼ x 12 ins., 184 pp. Illustrated. Shows complete line of plumbing fixtures for Schools, Railroads and Industrial Plants.

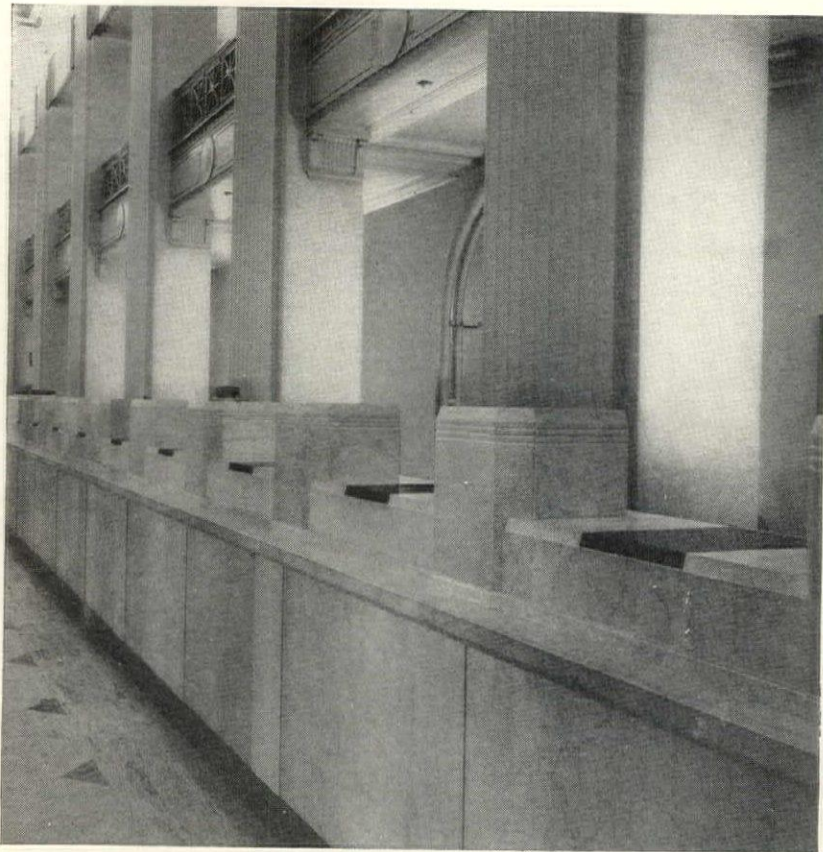
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## SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 50

### PLUMBING EQUIPMENT—Continued

- Crane Company, 836 S. Michigan Ave., Chicago, Ill.**  
 Plumbing Suggestions for Home Builders. Catalog, 3 x 6 ins., 80 pp. Illustrated.  
 Plumbing Suggestions for Industrial Plants. Catalog, 4 x 6½ ins., 34 pp. Illustrated.  
 Planning the Small Bathroom. Booklet, 5 x 8 ins. Discusses planning bathrooms of small dimensions.
- Duriron Company, Dayton, Ohio.**  
 Duriron Acid, Alkali and Rust-Proof Drain Pipe and Fittings. Booklet, 8½ x 11 ins., 20 pp. Full detail regarding a valuable form of piping.
- Imperial Brass Mfg. Co., 1200 W. Harrison St., Chicago, Ill.**  
 Watrous Patent Flush Valves, Duojet Water Closets, Liquid Soap Fixtures, etc. 8½ x 11 ins., 136 pp., loose-leaf catalog, showing roughing-in measurements, etc.
- Kohler Company, Kohler, Wis.**  
 Catalog K. 322 pp., 8½ x 11 ins. Illustrated, Loose-leaf catalog showing complete line of plumbing fixtures and accessories. New Beauty and Utility in Plumbing Fixtures. Booklet, 36 pp., 6 x 9 ins. Illustrated. Shows well-arranged bathrooms, kitchens, etc.
- Speakman Company, Wilmington, Del.**  
 Catalog K. Booklet, 150 pp., 8½ x 10½ ins. Illustrated. Data on showers and equipment details.

### PNEUMATIC TUBE SYSTEMS

- G & C Atlas Systems, Inc., 544 West Broadway, New York.**  
 12 pp., 8½ x 11. Illustrated booklet of tube systems for retail stores and other buildings.  
 4 pp., 8½ x 11. Data Sheet showing schematic diagrams for hotel, bank, factory and wholesale buildings, table of sizes, space requirements and preliminary layout steps. A.I.A. 35h21.

### PUMPS

- C. A. Dunham Co., 450 East Ohio Street, Chicago, Ill.**  
 Dunham Vacuum Pump. Booklet, 16 pp., 8½ x 11 ins. Illustrated.
- Kewanee Private Utilities Co., 442 Franklin St., Kewanee, Ill.**  
 Bulletin E. 7¼ x 10¼ ins., 32 pp. Illustrated. Catalog. Complete descriptions, with all necessary data, on Standard Service Pumps, Indian Brand Pneumatic Tanks, and Complete Water Systems, as installed by Kewanee Private Utilities Co.
- Nash Engineering Company, South Norwalk, Conn.**  
 Bulletin 52. Brochure. 6 pp., 10¼ x 7½ ins. Illustrated in color. Devoted to Jennings Standard Centrifugal Pumps for house service, boosting city water pressure to supply top stories, for circulating warm water, etc.  
 Bulletin. 97. Booklet. 16 pp., 10¼ x 7½ ins. Illustrated in color. Describes the design, construction and operation of the Jennings Suction Sump Pump.  
 Bulletin 11. Brochure. 8 pp., 10¼ x 7½ ins. Illustrated in color. Deals with Nash Hytor Vacuum Pump for air and gases.

### REFRIGERATION

- The Fulton Syphon Company, Knoxville, Tenn.**  
 Temperature Control of Refrigeration Systems. Booklet, 8 pp., 8½ x 11 ins. Illustrated. Deals with cold storage, chilling of water, etc.

### REINFORCED CONCRETE—See also Construction, Concrete

- Concrete Steel Company, 2 Park Avenue, New York, N. Y.**  
 Modern Concrete Reinforcement. Booklet, 32 pp., 8½ x 11 ins. Illustrated.
- Kalman Steel Company, Chicago, Ill.**  
 Building for Permanence. Booklet, 8 pp., 8½ x 11 ins. Reinforced concrete products.
- Truscon Steel Company, Youngstown, Ohio.**  
 Shearing Stresses in Reinforced Concrete Beams. Booklet, 8½ x 11 ins., 12 pp.

### RESTAURANT EQUIPMENT

- John Van Range Company, Cincinnati.**  
 Planning Restaurants That Make Money. Booklet, 78 pp., 8½ x 11 ins. Illustrated. Excellent work on equipment.

### ROOFING

- Federal Cement Tile Co., 608 S. Dearborn Street, Chicago.**  
 Catalog and Roof Standards. Booklet, 36 pp., 8½ x 11 ins. Illustrated. Describes Featherweight Concrete Insulating Roof Slabs, including complete data, weights and dimensions, specifications and detail drawings. Also includes complete information on Featherweight Nailing Concrete Roof Slabs for use with ornamental slate or copper covering. The catalog is profusely illustrated and contains also a partial list of users.  
 Examples of Theaters and Theater Roofs. Brochure, 16 pps., 8½ x 11 ins., Illustrated. Contains views of theaters designed by some of the country's leading architects.  
 Federal Interlocking Tile and Glass Tile. 4 pp., 8½ x 11 ins. Illustrates and describes complete roof or precast concrete slabs requiring no composition covering.
- Heinz Roofing Tile Co., 1925 West Third Avenue, Denver, Colo.**  
 Plymouth-Shingle Tile with Sprocket Hips. Leaflet, 8½ x 11 ins. Illustrated. Shows use of English shingle tile with special hips.  
 Italian Promenade Floor Tile. Folder, 2 pp., 8½ x 11 ins. Illustrated. Floor tiling adapted from that of Davanzati Palace.  
 Mission Floor. Leaflet, 8½ x 11 ins. Illustrated. Tile such as are used in Italy and Southern California.  
 Georgian Tile. Leaflet, 8½ x 11 ins. Illustrated. Tiling as used in old English and French farmhouses.

### Johns-Manville Corporation, New York.

- The New Book of Roofs. Brochure, 24 pp., 8½ x 11 ins. Illustrated. Roofing from the Architect's point of view.

### Ludowici-Celadon Company, 104 So. Michigan Ave., Chicago, Ill.

- "Ancient" Tapered Mission Tiles. Leaflet, 8½ x 11 ins., 4 pp. Illustrated. For architects who desire something out of the ordinary this leaflet has been prepared. Describes briefly the "Ancient" Tapered Mission Tiles, hand-made with full corners and designed to be applied with irregular exposures.

### Milcor Steel Co., Milwaukee.

- Milcor Architectural Sheet Metal Guide. Booklet. 72 pp., 8½ x 11 ins. Illustrated. Metal tile roofing, skylights, ventilators, etc.  
 Milcor Sheet Metal Handbook. Brochure. 128 pp., 8½ x 11 ins. Illustrated. Deals with rain-carrying equipment, etc.

### Structural Gypsum Corporation, Linden, N. J.

- Gypsteel Pre-cast Fireproof Roofs. Booklet, 48 pp., 8½ x 11 ins. Illustrated. Information regarding a valuable type of roofing.  
 Service Sheet No. 1. Specifications and Details of Design and Construction for Gypsteel Long-Span Pre-Cast Roofs. Folder, 8½ x 11 ins. Illustrated.  
 Service Sheet No. 2. Specifications and Details of Design and Construction for Gypsteel Short-Span Pre-Cast Roofs. Folder, 8½ x 11 ins. Illustrated.  
 Service Sheet No. 4. Specifications and Details of Design and Construction for Gypsteel Pre-Cast Assembled Slab Roofs. Folder, 8½ x 11 ins. Illustrated.

### SCHOOL EQUIPMENT

#### John Van Range Co., Cincinnati.

- Practical Planning for School Food Service. Booklet, 32 pp., 8½ x 11 ins. Illustrated.

### SEWAGE DISPOSAL

#### Kewanee Private Utilities, 442 Franklin St., Kewanee, Ill.

- Specification Sheets. 7¼ x 10¼ ins., 40 pp. Illustrated. Detailed drawings and specifications covering water supply and sewage disposal systems.

#### Nash Engineering Company, South Norwalk, Conn.

- Bulletin 67. Booklet. 16 pp. 10¼ x 7½ ins. Illustrated in color. Describes Type A Jennings Sewage Ejector for handling Un-screened sewage and raising it from basements below sewer level.  
 Bulletin 103. Brochure. 16 pp. 10¼ x 7½ ins. Illustrated in color. Deals with small size Type B Jennings Sewage Ejector.

### SCREENS

#### American Brass Co., The, Waterbury, Conn.

- Facts for Architects About Screening. Illustrated folder, 9½ x 11¼ ins., giving actual samples of metal screen cloth and data on fly screens and screen doors.

#### Athey Company, 6015 West 65th St., Chicago, Ill.

- The Athey Perennial Window Shade. An accordion pleated window shade, made from translucent Herringbone woven Coutil cloth, which raises from the bottom and lowers from the top. It eliminates awnings, affords ventilation, can be dry-cleaned and will wear indefinitely.

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## SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 52

## SHELVING-STEEL

David Lupton's Sons Company, Philadelphia, Pa.  
Lupton Steel Shelving. Catalog E. Illustrated brochure, 40 pp., 8½ x 11 ins. Deals with steel cabinets, shelving, racks, doors, partitions, etc.

## STEEL PRODUCTS FOR BUILDING

Bethlehem Steel Company, Bethlehem, Pa.  
Steel Joists and Stanchions. Booklet, 72 pp., 4 x 6¾ ins. Data for steel for dwellings, apartment houses, etc.

Bethlehem Structural Shapes Bound Volume, 368 pp., 4¼ x 6¾ ins. Illustrated.

Steel Frame House Company, Pittsburgh, Pa. (Subsidiary of McClintic-Marshall Corp.)

Steel Framing for Dwellings. Booklet, 16 pp., 8½ x 11 ins. Illustrated.

Steel Framing for Gasoline Service Stations. Brochure, 8 pp., 8½ x 11 ins. Illustrated.

Steel Frame Standard Gasoline Service Stations. Booklet, 8 pp., 8½ x 11 ins. Illustrated. Three standard designs of stations.

Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa.  
The Arc Welding of Structural Steel. Brochure, 32 pp., 8½ x 11 ins. Illustrated. Deals with an important structural process.

The Kawneer Company, Niles, Mich.  
Folder with A.I.A. File No. featuring new Shower Door, furnished in Solid Bronze, Chromium Plated or Solid Nickel-silver.

## STONE, BUILDING

Indiana Limestone Company, Bedford, Ind.  
Volume 3, Series A-3. Standard Specifications for Cut Indiana Limestone work, 8½ x 11 ins., 56 pp. Containing specifications and supplementary data relating to the best methods of specifying and using this stone for all building purposes.

Volume 1. Series B. Indiana Limestone Library, 6 x 9 ins., 36 pp. Illustrated. Giving general information regarding Indiana Limestone, its physical characteristics, etc.

Volume 4. Series B. Booklet. New Edition, 8½ x 11 ins., 64 pp. Illustrated. Indiana Limestone as used in Banks.

Volume 5. Series B. Indiana Limestone Library. Portfolio, 11½ x 8¾ ins. Illustrated. Describes and illustrates the use of stone for small houses with floor plans of each.

Volume 6. Series B. Indiana Limestone School and College Buildings. 8½ x 11 ins., 80 pp. Illustrated.

Volume 12. Series B. Distinctive Homes of Indiana Limestone. 8½ x 11 ins., 48 pp. Illustrated.

Old Gothic Random Ashlar. 8½ x 11 ins., 16 pp. Illustrated.

## STORE FRONTS

Brasco Manufacturing Co., 5025-35 South Wabash Ave., Chicago, Ill.  
Catalog No. 33. Series 500. All-Metal Construction. Brochure, 20 pp., 8½ x 11 ins. Illustrated. Deals with store fronts of a high class.

Catalog No. 34. Series 202. Standard construction. Booklet, 16 pp., 8½ x 11 ins. Illustrated, complete data on an important type of building.

Detail Sheets. Set of seven sheets, 8½ x 11 ins., printed on tracing paper, giving full-sized details and suggestions for store front designs.

Davis Solid Architectural Bronze Sash. Set of six sheets, 8½ x 11 ins., printed on tracing paper. Full-sized details and suggestions for designs of special bronze store front construction.

The Kawneer Company, Niles, Mich.  
Catalog M, 1929 Edition, 64 pages, 8½ x 11 ins., with the A.I.A. File No., profusely illustrated. General Catalog.

Detail Sheet and descriptive folder, 8½ x 11 ins., with A.I.A. File No. featuring "B" Store Front Construction, designed along modernistic lines.

Book of Installations featuring modern fronts. Booklet, 32 pp., 8½ x 11 ins.

Detail Sheets. Set of seven sheets in Portfolio, 8½ x 11 inches. A.I.A. File No.

Detail Sheet and descriptive folder, 8½ x 11 inches, with A.I.A. File No., featuring "B" Store Front Construction, designed along modernistic lines.

National Terra Cotta Society, 230 Park Avenue, New York, N. Y.  
Terra Cotta Stores and Store Fronts. Booklet, 15 pp., 8½ x 11 ins. Illustrated.

## TELEPHONE SERVICE ARRANGEMENTS

All Bell Telephone Companies. Apply nearest Business Office, or American Telephone and Telegraph Company, 195 Broadway, New York.

Planning for Home Telephone Conveniences. Booklet, 52 pp., 8½ x 11 ins. Illustrated.

Planning for Telephones in Building. Brochure, 74 pp., 8½ x 11 ins. Illustrated.

## TERRA COTTA

National Terra Cotta Society, 19 West 44th St., New York, N. Y.  
Standard Specifications for the Manufacture, Furnishing and Setting of Terra Cotta. Brochure, 8½ x 11 ins., 12 pp. Complete Specification, Glossary of Terms Relating to Terra Cotta and Short Form Specification for incorporating in Architects' Specification.

## TIMBREL TILE VAULTS

R. Guastavino Co., 40 Court Street, Boston.  
Timbrel Arch Construction. Booklet, 8 pp., 8½ x 11 ins.

## TILE, STRUCTURAL CLAY

National Fireproofing Corporation, Fulton Building, Pittsburgh, Pa.  
Natco. The Complete Line of Structural Clay Tile. Booklet, 48 pp., 8½ x 11 ins. Illustrated. A General Catalog.

Natco Vitritile Bulletin No. 164. 40 pp., 8½ x 11 ins. Illustrated. Shows color charts, sizes and shapes, actual installations, etc.

Natco Header Backer Tile Bulletin. 8½ x 11 ins. 4 pp. Illustrated.

Natco Unibacker Tile Bulletin. 8½ x 11 ins. 4 pp. Illustrated.

Natcoflor Bulletin. 8½ x 11 ins., 6 pp. Illustrated.

Natco Double Shell Load Bearing Tile Bulletin, 8½ x 11 ins., 6 pp. Illustrated.

## TILES

Flint Faience & Tile Co., Flint, Mich.

Vitocraft Tiles, Unglazed. Folder, 4 pp., 8½ x 11 ins. Illustrated. Details of patterns in full color. Ask for Form A-322.

Faience Tiles for Bathrooms. Folder, 4pp., 8½ x 11 ins. Illustrated. Ask for Form A-303.

Faience and Vitocraft, Unglazed. Folder, 4 pp., 8½ x 11 ins. Illustrated. Views of installations. Ask for Form A-304.

Flintcraft Tiles. Folder, 4 pp., 8½ x 11 ins. Illustrated. Machine-made floor or wall tile. Ask for Form A-363.

Hanley Company, Bradford, Pa.

Hanley Quarry Tile. Folder. 4 pp., 5 x 8 ins. Illustrated.

C. Pardee Works, 101 Park Ave., New York, N. Y., and 1600 Walnut St., Philadelphia, Pa.

Pardee Tiles. Bound volume, 48 pp., 8½ x 11 ins. Illustrated.

## TRUSSES

McKeown Bros. Company, 523 South Keeler Avenue, Chicago.

Truth in Architecture. Folder, 4 pp., 8½ x 11 ins. Illustrated. Deals with use of trusses of wood.

Factory Built Bowstring Trusses. Folder, 4 pp., 8½ x 11 ins. Illustrated.

Timber Trusses. Folder, 4 pp., 8½ x 11 ins. Illustrated.

## VALVES

Crane Co., 836 S. Michigan Ave., Chicago, Ill.

No. 51. General Catalog. Illustrated. Describes the complete line of the Crane Co.

C. A. Dunham Co., 450 East Ohio St., Chicago, Ill.

The Dunham Packless Radiator Valve. Brochure, 12 pp., 8 x 11 ins. Illustrated. Data on an important type of valve.

Jenkins Brothers, 80 White Street, New York.

Office Buildings Yesterday and Today. Folder, 8½ x 11 ins. Illustrated. Valves for use in office buildings.

Walworth Company, Statler Office Building, Boston, Mass.

Walworth Valves, Fittings and Tools, Catalog 88. Bound Volume giving data on a wide variety of details.

## VENETIAN BLINDS

Columbia Mills, 225 Fifth Avenue, New York.

A Manual for Architects. Booklet, 6 pp., 8½ x 11 ins. Illustrated.

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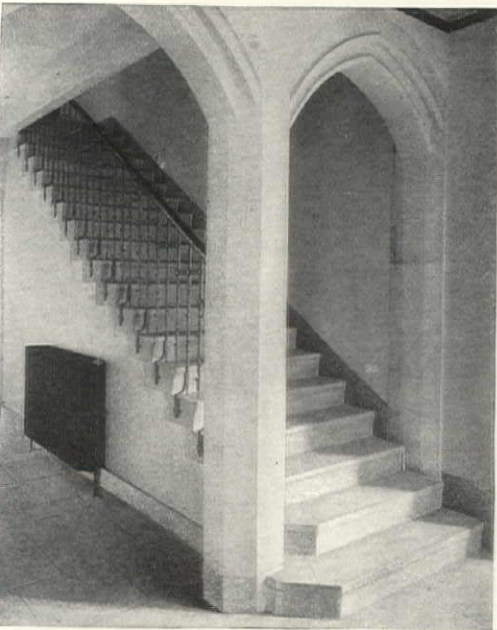
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## SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 54

## VENTILATION

- American Blower Co.**, Detroit, Mich.  
American H. S. Fans. Brochure, 28 pp., 8½ x 11 ins. Data on an important line of blowers.
- Duriron Company**, Dayton, Ohio.  
Acid-proof Exhaust Fans. Folder, 8 x 10½ ins., 8 pp. Data regarding fans for ventilation of laboratory fume hoods.  
Specification Form for Acid-proof Exhaust Fans. Folder, 8 x 10½ ins.
- Orange Screen Company**, Maplewood, N. J.  
Window Ventilator, Filters the air. Folder 4 pp., 8½ x 11 ins. Illustrated.

## WATERPROOFING

- Medusa Portland Cement Co.**, 1002 Engineers' Building, Cleveland.  
Medusa Waterproofed Gray Portland Cement. Booklet, 30 pp., 8½ x 11 ins. Illustrated.
- Minwax Company, Inc.**, 11 West 42nd St., New York.  
Waterproofing Stadia. Folder, 4 pp., 8½ x 11 ins. Illustrated.  
Transparent Waterproofings for All Masonry Walls and Surfaces. Folder, 4 pp., 8½ x 11 ins. Illustrated.  
Data Sheet on Membrane Waterproofing. Folder, 4 pp., 8½ x 11 ins. Illustrated.
- Toch Brothers**, New York, Chicago, Los Angeles.  
Architects' Specification Data. Sheets in loose leaf binder, 8½ x 11 ins., dealing with an important line of materials.

## WEATHER STRIPS

- Athey Company**, 6035 West 65th St., Chicago, Ill.  
The Only Weatherstrip with a Cloth to Metal Contact. Booklet, 16 pp., 8½ x 11 ins. Illustrated. Data on an important type of weather stripping.

## WINDOW GLASS

- Pittsburgh Plate Glass Company**, Grant Building, Pittsburgh, Pa.  
Pennvernon Window Glass With the New Flatter Surface. Booklet, 16 pp., 8½ x 11 ins. Illustrated.

## WINDOWS

- William Bayley Co.**, 147 North Street, Springfield, Ohio.  
Bayley Pivoted Windows. Booklet, 24 pp., 8½ x 11 ins. Illustrated. Sections, hardware, and other details, and illustrations of installations.
- Detroit Steel Products Co.**, 2250 E. Grand Boulevard, Detroit.  
Fenestra Blue Book. Brochure, 75 pp., 8½ x 11 ins. Illustrated. Data on steel windows.
- The Kawneer Company**, Niles, Mich.  
Circular, 8½ x 11 ins., with A.I.A. File No. featuring full size details and specifications of Sealair In-swinging windows. The above to be furnished in non-ferrous metals and steel.
- David Lupton's Sons Company**, Philadelphia, Pa.  
Lupton Pivoted Sash. Catalog 12-A. Booklet, 48 pp., 8½ x 11 ins. Illustrates and describes windows suitable for manufacturing buildings.
- Lupton Commercial Projected Windows. Brochure. 24 pp., 8½ x 11 ins. Illustrated. Details and specifications.

## WINDOWS, CASEMENT

- Detroit Steel Products Co.**, 2250 E. Grand Boulevard, Detroit.  
Fenestra Casements. Booklet, 14 pp., 8½ x 11 ins. Illustrated. Discusses casements, particularly for residences.
- Fenestra Screen Casements. Brochure, 16 pp., 8½ x 11 ins. Illustrated.
- Decorating With Casements. Booklet, 18 pp., with inserts in color 6 x 8½ ins. Deals with use of decorations, particularly draperies, with casement windows.
- David Lupton's Sons Company**, Philadelphia, Pa.  
Lupton Casement of Copper Steel. Catalog C-217. Booklet, 24 pp., 8½ x 11 ins. Illustrated brochure on casements, particularly for residences.

## WINDOWS, CASEMENT—Continued

- Lupton Creates a Complete Casement. Folder, 8½ x 11 ins. Illustrated data on a casement providing for screens, shades and draperies.
- Lupton Heavy Casements. Detail Sheet No. 101, 4 pp., 8½ x 11 ins. Details and specifications only.
- Richards-Wilcox Mfg. Co.**, Aurora, Ill.  
Casement Window Hardware. Booklet, 24 pp., 8½ x 11 ins. Illustrated. Shows typical installations, detail drawings, construction details, blue-prints if desired. Describes AIR-way Multifold Window Hardware.
- Architectural Details. Booklet, 8½ x 11 ins., 16 pp. Tables of specifications and typical details of different types of construction.
- List of Parts for Assembly. Booklet, 8½ x 11 ins., 16 pp. Full lists of parts for different units.

## WINDOW SCREENS

- Detroit Steel Products Co.**, 2250 E. Grand Boulevard, Detroit.  
Fenestra Screen Casements. Brochure, 16 pp., 8½ x 11 ins. Illustrated.
- William Bayley Co.**, 147 North Street, Springfield, Ohio.  
Bayley Pivoted Windows Screened. Booklet, 8 pp., 8½ x 11 ins. Data on screening and window ventilation.

## WINDOWS, STEEL AND BRONZE

- William Bayley Co.**, 147 North Street, Springfield, Ohio.  
Bayley Steel Window Inserts. Brochure, 8 pp., 8½ x 11 ins. Illustrated Suggestions on correct use of inserts.
- David Lupton's Sons Company**, Philadelphia, Pa.  
A Rain-shed and Ventilator of Glass and Steel. Pamphlet, 4 pp., 8½ x 11 ins. Deals with Pond Continuous Sash. Sawtooth Roofs, etc.
- How Windows Can Make Better Homes. Booklet, 3¾ x 7 ins., 12 pp. An attractive and helpful illustrated publication on use of steel casements for domestic buildings.
- Truscon Steel Company**, Youngstown, Ohio.  
Drafting Room Standards. Book, 8½ x 11 ins., 120 pages of mechanical drawings showing drafting room standards, specifications and construction details of Truscon Steel Windows, Steel Lintels, Steel Doors and Mechanical Operators.
- Truscon Solid Steel Double-Hung Windows. 24 pp. Booklet, 8½ x 11 ins. Containing illustrations of buildings using this type of window. Designs and drawings of mechanical details.
- Continuous Steel Windows and Mechanical Operators. Catalog 126. Booklet, 32 pp., 8½ x 11 ins. Illustrated.

## WOOD—See also Millwork

- American Walnut Mfrs. Association**, 618 So. Michigan Boulevard, Chicago, Ill.  
American Walnut. Booklet, 7 x 9 ins., 46 pp. Illustrated. A very useful and interesting little book on the use of walnut in Fine Furniture with illustrations of pieces by the most notable furniture makers from the time of the Renaissance down to the present.
- American Walnut for Interior Woodwork and Paneling. 7 x 9 ins. Illustrated. Discusses interior woodwork, giving costs, specifications of a specimen room, the different figures in Walnut wood, Walnut floors, finishes, comparative tests of physical properties and the advantages of American Walnut for woodwork.
- Wood Conversion Company**, Cloquet, Minn.  
Nu-Wood Insulating Board and Insulating Lath. Booklet, 23 pp. 4 x 6 ins. Illustrated.
- True Insulation for Your Present House. Brochure, 12 pp. 5 x 7 ins. Illustrated.
- Evidence of the Economy of Heating with Gas. Booklet, 11 pp. 5 x 7 ins. Illustrated.
- House Comfort that Pays for Itself. Brochure, 32 pp. 5¼ x 7¾ ins. Illustrated.

## WOOD FINISH

- Minwax Company**, 11 West 42nd St., New York.  
Color card and specification for Minwax Flat Finish. Folder, 4 pp., 8½ x 11 ins. Illustrated. Deals with a penetrative, preservative stain finish giving stain and soft wax effect.

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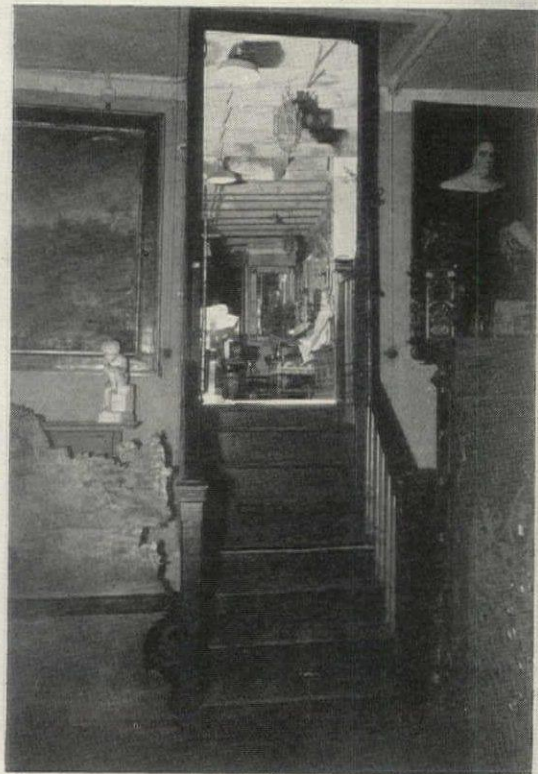
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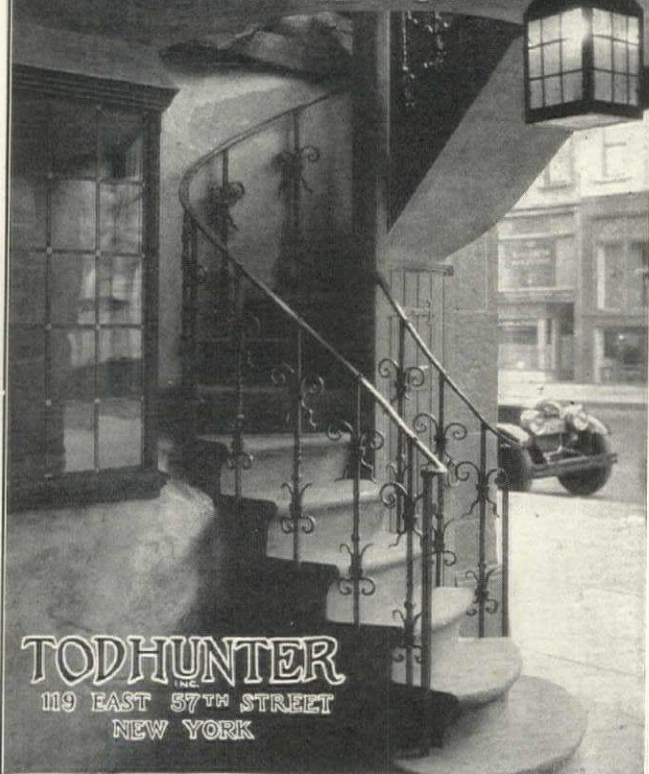
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## REVIEWS OF MANUFACTURERS' PUBLICATIONS

NATIONAL TERRA COTTA SOCIETY, 230 Park Avenue, New York. "Terra Cotta for Public Buildings."

The wide use of terra cotta may be said to be due to the excellence of the material itself, its comparatively moderate cost, and the low cost of its upkeep, since whether it be used without or within, a simple washing with soap and water will restore terra cotta to its pristine freshness. Then again, this material is extremely useful for buildings which are to be floodlighted, and some manufacturers of floodlighting equipment maintain that it is considerably more economical to light a structure of terra cotta than a similar building of other materials light in color. This brochure deals with the extensive use of terra cotta for public buildings of different kinds,—state capitols, court houses, office structures, public libraries, post offices, city halls, and school buildings of many kinds. One of the most interesting illustrations in the brochure shows the highly architectural use of terra cotta for the interior of the Pan-American Union building in Washington, where the material is much used for facing walls.

GOODYEAR TIRE & RUBBER CO., Akron, O. "*Rubber Flooring News*; Vol. II, No. 6."

Probably with a view to stimulating the imagination of architects and interior decorators, this widely known firm of manufacturers of rubber flooring materials publishes a monthly journal which in addition to giving valuable data and suggestions on the use of rubber flooring includes illustrations of new patterns or designs in which the material is to be had, and also illustrations of interiors for which the flooring has been used. The particular issue of the *Rubber Flooring News* under consideration contains several pages of diagrams and views of many interiors, among them the lobby of the American Furniture Mart, Chicago; entrance hall of the Hollywood Terminal Building; auditoriums of the Hartman Furniture Co., Chicago; corridor of the Lakeview Building, Chicago; offices of the Cotter Warehouse Co., Akron, O.; smoking room of the S. S. President Adams, as recently remodeled and reconditioned by the Bethlehem Shipbuilding Corporation; and a number of other interiors of various types. This useful little publication, which can probably be had for the asking, is valuable to architects and interior decorators because it keeps them informed as to the latest designs or patterns in which these excellent flooring materials are to be had and different ways of using them.

LUDOWICI-CELADON COMPANY, New York, Chicago, Washington. "*The Tuileries Brochures*."

Several times mention has been made in THE FORUM of these booklets being issued by the Ludowici-Celadon Company, "a series of monographs on European architecture with special reference to roofs of tile." Of course tiles have been used for ages in many countries for roofs of buildings of all types, and there exists a vast wealth of architecture to serve as a basis for illustration; and when selection is to be made by a distinguished architect of certain items from this wealth, the result is sure to be interesting and helpful to architects and students of architecture. The particular issue of *The Tuileries Brochures* to prompt these sentences is that for September, 1930, which deals with "Rural Architecture in Buckinghamshire." Text by Francis Bendall is illustrated from photographs by F. R. Yerbury, of many charming old houses and groups of buildings in this English county. Some of the buildings are of brick, while others are of a half-timber construction, in which brick plays a highly important part. One page gives an illustration of a beautiful although extremely simple "door and bay window," the composition suggesting that the grouping is or may have been that of a shop front, with the bay used as a show window. The opposite page gives measured drawings from which it would be easy to reproduce the arrangement for present-day use. *The Brochures* are produced, the title page says, "for distribution among the members of the architectural profession," and the various issues of a year bound in book form would make an addition valuable indeed to the library of an architect or anyone else interested in architectural design.

COMMON BRICK MANUFACTURERS' ASSOCIATION, Cleveland. "Specifications for Brickwork."

The appearance of a wall built of brick depends largely upon the use of an attractive "bond" and that of an appropriate joint, and it is astonishing what an excellent architectural effect can be had with common brick when such work has been carefully designed and use made perhaps of color in the joints, which gives the entire wall life and vitality. The actual utility of such a wall,—its wearing qualities,—of course depends upon its being laid or built up in the proper way. This useful brochure, to begin with, illustrates quite a number of bonds and joints, and it then illustrates the correct method of building walls in which these different bonds and joints are used. It also deals with what is known as "skintled" brickwork and illustrates seven different effects which may be had. The booklet also gives data likely to be useful when estimate is being made of the number of bricks required for a given project, and the amount of labor needed for laying the brick up into a wall.

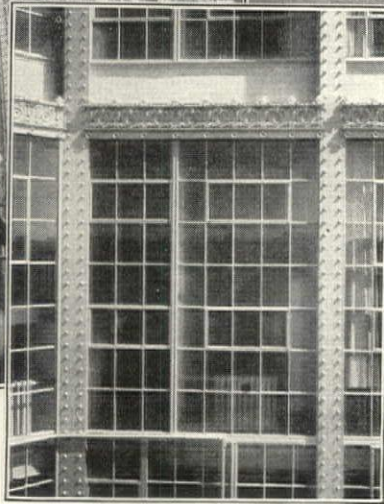
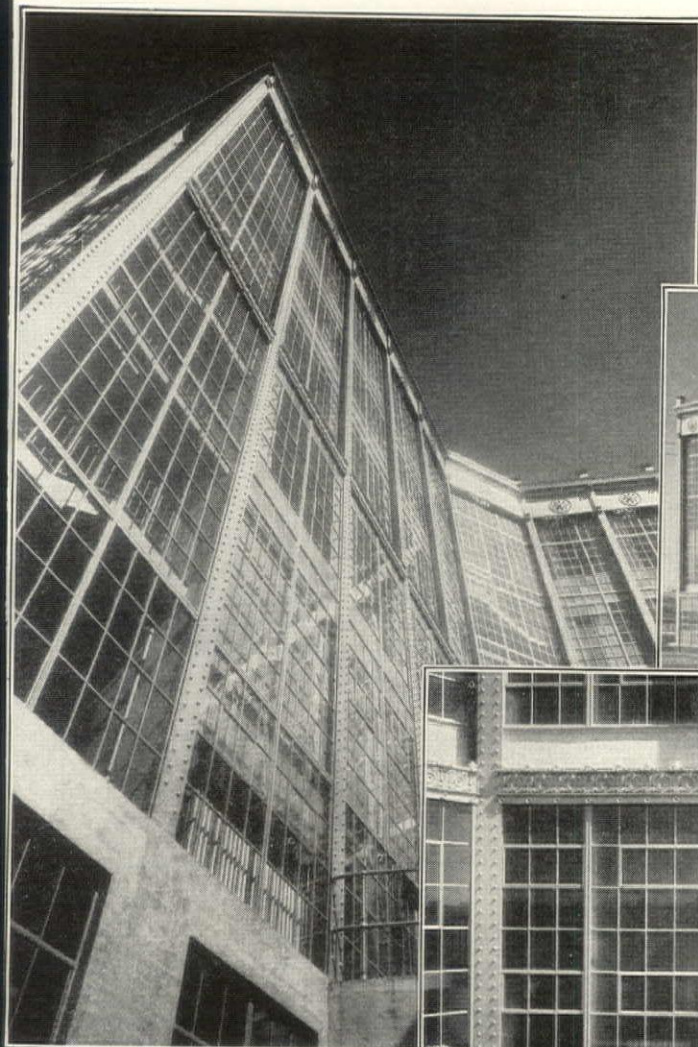
STEDMAN RUBBER FLOORING COMPANY, South Braintree, Mass. "Ray-Proof Rubber."

Architects who plan and design hospitals as well as the physicians and surgeons who operate them know the value of the X-ray and the necessity of providing most carefully for its proper use. Scarcely any discovery in the sphere of medicine or surgery has had greater effect upon the practice of either than the discovery of the X-ray during the latter part of the nineteenth century. It revolutionized the methods of diagnosis by making possible the examination of the internal organs and anatomy of a patient without exploratory surgical procedure. "The discovery of the penetrative power of X-rays has also led to the realization that it is necessary to protect occupants of rooms adjoining the X-ray department from their deleterious effects. To afford such protection, the method at first principally used was to cover the walls, floors, and ceilings of the X-ray room with sheet lead. Later, the coating of the walls and ceilings with a mixture of barium sulphate and ordinary wall plaster or cement was advocated. Each of these methods of protection is, however, dependent for its efficiency on the care with which the protecting material is applied, for, as a leading authority has well said: 'The average workman does not realize what the protection is for, and is likely to be careless in applying it.' In the use of sheet lead, leakage of X-rays has often occurred through the nails used in affixing it to the walls, and from carelessness in joining the sheets and in fitting the lead around wall openings, such as doors." It must also be borne in mind that an ideal sheet lead installation requires a double wall construction, which is expensive and involves a loss of space. In addition, the paint or other finish on the exposed plaster surface must be renewed at intervals.

"The Stedman Rubber Flooring Company, long known in the hospital field as makers of Stedman Reinforced Rubber Floors, made many experiments in their laboratory with the view of finding a solution to this difficult problem. As a result of widespread inquiries made of X-ray specialists in various countries, the Company determined that any protective material against the penetration of X-rays must fulfill these requirements: (1) It must be 'ray-proof.' (2) It must be a factory-finished product, so that the possibility of there being defective installation will be reduced to the minimum. (3) It must be of such a nature and surface finish that it will not require painting or other expense for up-keep. (4) It must be sanitary and easy to clean. (5) It must be quiet under footfall and other contact noises, and also be of value in absorbing the noise of the machine. (6) It must have a good appearance. (7) It must afford protection from the electrical dangers attendant on the use of high-tension currents of electricity, such as are required for modern high-power X-ray apparatus. After prolonged and costly experiments, the Company's laboratory succeeded in producing a material which fulfills every one of the requirements, and named it 'Ray-Proof Rubber.'" Stedman Ray-Proof Rubber is composed of crude rubber and essential compounds, thoroughly impregnated with oxide of lead by a scientific process of vulcanization, insuring homogeneity.



**“We give you full credit  
for the window success  
of our building”**



Worcester Pressed Steel Company,  
Worcester, Mass. J. D. Leland & Com-  
pany, Architects and Engineers, Boston.  
Harty & Brown, Construction Man-  
agers, Boston.

SO writes John W. Higgins, presi-  
dent of the Worcester Pressed  
Steel Company, in a letter stating  
how well pleased he is with Bayley  
Steel Windows. His experience is typi-  
cal of other Bayley users. It speaks  
a satisfaction that is as gratifying to  
us as it must be to the growing num-  
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that the flat T bar construction lent itself so well to the architec-  
tural harmony of the building, were important considerations in  
choosing Bayley windows. Incidentally, in all door openings Bayley  
Tubular Steel Doors, noted for their efficiency, durability and  
good appearance, are used.

Bayley engineering cooperation, thorough and helpful, is always  
an added assurance of entire satisfaction. It is available in following  
through to the final completion of every job, and not only in pre-  
paring plans and in writing specifications. It is a service that ap-  
peals strongly to architects and construction managers as well as  
to owners. . . . The William Bayley Company, Springfield, Ohio.

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include the following**

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- Prison Windows
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## REVIEWS OF MANUFACTURERS' PUBLICATIONS

**FEDERAL CEMENT TILE COMPANY, 608 South Dearborn Street, Chicago. "Featherweight Nailing Concrete Slabs."**

The advantages to be had by using pre-cast concrete have long been widely recognized by architects, engineers and builders, but it presented certain difficulties which it required skill and ingenuity to overcome. When slabs of pre-cast concrete were used for building floors or roofs, it was necessary to insert strips of wood to which to nail finished flooring in one case and roofing materials, such as shingles or slates, in the other. With the invention of "Nailing Concrete," dealt with in this folder as far as it applies to roofing, this difficulty has been overcome. "With the ability to take and firmly hold nails, the concrete deck may be covered directly with slate, ornamental tile, copper or other covering. There are no wood nailing strips to rot out; the covering cannot work loose; the original beauty of the roof is always preserved. This construction is permanent, fireproof and free from all maintenance expense,—painting, repairing or replacement. For public buildings particularly, these advantages are important and the prominence and size of buildings roofed with these slabs afford ample evidence of their worth. The slabs are of standard Federal design, with bottom sections of reinforced concrete and top sections of nailing concrete cast integrally with the bottom. This nailing material is of a special formula developed by years of research and has proved worthy in service. The concrete is of Haydite aggregate (trapped air cells), giving both light weight and an insulating value new to concrete. Being laid directly on the steel roof purlins, the nailing slabs are speedily erected in any weather and are ready at once for the roofing felt and ornamental covering. Our engineers are glad to provide suggestions for the most economical layout of both structural steel and slabs, along with sketches and estimates."

**THE WHEELER, OSGOOD COMPANY, Tacoma. "The Doors that Stand the Famous Water Test."**

The "sticking" of doors, which annoys so many housekeepers, is due of course to the action on the wood of the doors of the heat or the moisture (or lack of moisture) which prevails in the atmosphere. Because of its very nature, wood contracts when brought into contact with the dry heat, such as usually prevails in American homes, and it expands with moisture; and when the door is made of solid wood this contraction or expansion affects the entire door. These conditions account for the widespread use of "built-up" or "laminated" doors, constructed of several thicknesses or "plys" of wood so arranged and cemented together that contraction, expansion, or warping is impossible. This brochure is issued in the interests of the well known "Laminex" doors. It says: "This inherent property of wood is now scientifically neutralized. Laminex construction, developed after many years of research by the largest manufacturer of doors in the world, has solved the problem. Now you can obtain doors that are genuinely trouble-proof, regardless of climate conditions. So successful is Laminex construction that Laminex doors may be soaked in water for days at a time without warping, splitting or coming apart. In fact, the soaking of Laminex doors in water is a test that is frequently made by distributors and retail dealers to prove that Laminex construction makes them immune to any condition of dampness. In Laminex doors, we offer the best stock soft-wood doors made, whose superiority can be proved in a spectacular manner. Progressive lumber and millwork dealers carry stocks of Laminex doors in popular designs at moderate prices. These dealers will welcome a personal visit from architects who wish to examine the construction and appearance of Laminex doors. Laminex stiles and rails are built up on cores of blocks with grain so crossed that expansion and contraction are neutralized. Flawless layers of wood, face veneers, are cemented permanently to the cores with special formula Laminex cement which is absolutely waterproof and actually stronger than wood. Laminex door panels with the adjacent layers running crosswise are waterproof cemented also. There are four 5/8-inch dowels in each end of Laminex bottom rails instead of the usual 1/2-inch dowels. These oversized dowels give 50 per cent more strength and 30 per cent greater holding surface." These doors are to be had in a variety of designs, illustrated and described here.

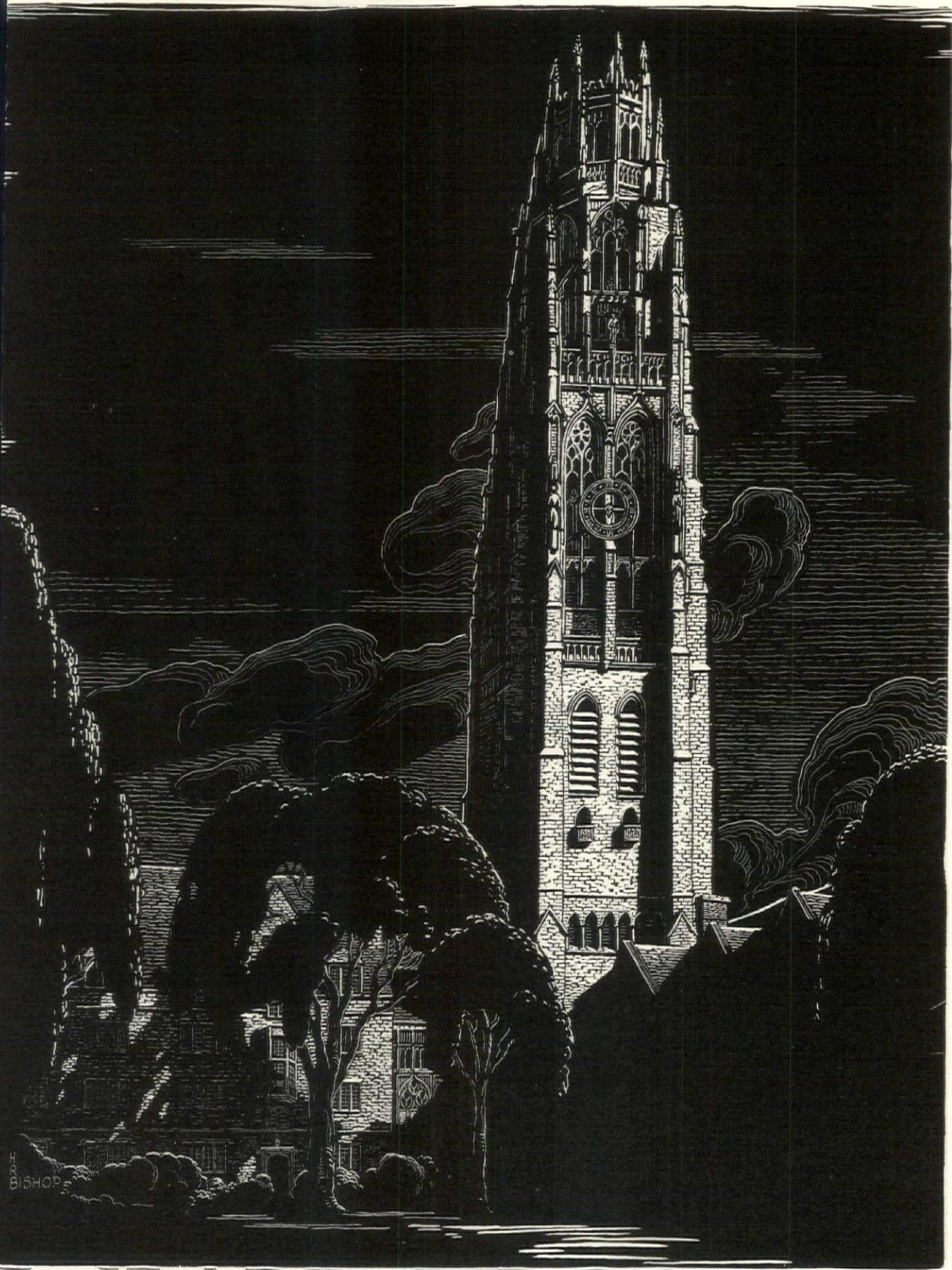
**YORK ICE MACHINERY CORPORATION, York, Pa. "York Self-Contained Refrigerating Units."**

"Refrigerating requirements vary in many particulars, but they divide themselves automatically into two general classes,—commercial and domestic. In the domestic field the requirements are relatively simple, and the penalty for partial or complete failure of the equipment is comparatively small. But commercial refrigeration, even in the small meat market, restaurant, florist shop or fur storage vault, involves the protection of considerable quantities of valuable merchandise, and the only safe refrigerating unit to use in such cases is that designed and built for the specific purpose of operating under the severe conditions sure to exist in the busy commercial establishment, where loads vary widely, and carelessness or indifference of many different people may subject the equipment to abnormal abuse or strain.

"York Ice Machinery Corporation has been manufacturing commercial refrigerating equipment for 50 years,—units for the large meat packers, cold storage plants and ice manufacturers, as well as for hotels, meat markets and retail establishments of all kinds and sizes. The York Self-Contained Refrigerating Units described in this booklet have been developed from this broad experience in meeting commercial refrigerating problems and requirements. They represent the last word in efficient and economical equipment. Among the users of mechanical refrigerating equipment who will find in the York Self-Contained Refrigerating Unit the safe, dependable and economical answer to their refrigerating problems are: meat markets, restaurants, hotels, clubs, bakeries, delicatessen stores, florists, bottlers, small dairies, and stores and factories for cooling drinking water."

**INDIANA LIMESTONE COMPANY, Bedford, Ind. "ILCO Spandrels." Their design and manner of building them.**

Members of an architect's designing staff as well as those concerned with structure will be interested in a series of sheets suggesting designs for various parts of buildings and then showing by sections and other drawings their actual construction. One set of these sheets deals chiefly with the design and construction of spandrels, particularly those of limestone. "The accentuation of vertical lines in the present-day architecture of tall buildings has been gained in part by the suppression of horizontals. This type of design expresses logically the underlying structure, and it is, therefore, reasonable to expect this development to continue. The submergence of horizontals can be gained in several ways, one of which is the introduction of pattern in detail contrasting with the plainness of the surrounding ashlar. Up to the present time, the use of stone in this manner in spandrel sections has not been broadly developed because of the amount of handwork involved in creating designs. After much experimentation, the Indiana Limestone Company has evolved a process of machining stone in extremely interesting geometrical patterns. The examples of spandrel design in this booklet show only suggestions of what can be done to meet the architect's requirements. This kind of ornament is distinctly practical even though it is a radical departure from the flowing decorations of previous periods. In the first place, it is a very honest expression of today's motif. In addition to that, its cost is decidedly favorable when the architect stops to consider the economy of setting stone of this size compared with the cost of setting smaller units of other materials. Aside from the point of architectural propriety, the day has passed when the 'set-up' for a commercial building will stand the expense of over-ornamentation. This is rather a fortunate situation, because the best use of ornament is in concentrated sections where it has a chance to be seen in contrast with the broader areas of plain surface about it. The patterns of these spandrels give interesting effects which will be accentuated by the weathering of the stone as time goes on. Some architects have said that they felt that this process which we have worked out is the coming method of handling horizontals, because it does not completely submerge them, but rather differentiates the horizontal from the vertical. Many architects have questioned the validity of designs entirely submerging horizontals, because every building has both columns and beams." The sheets illustrate many spandrels of striking design individually, besides showing them in their places in built-up walls. A booklet full of valuable data.



HARKNESS MEMORIAL QUADRANGLE • YALE UNIVERSITY • JAMES GAMBLE ROGERS • ARCHITECT

Minwax is the name of a complete service for waterproofing, preserving and beautifying wood and masonry. See Sweet's.



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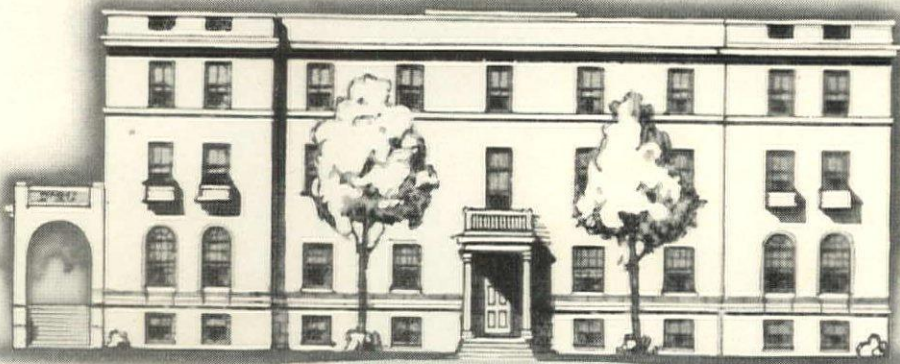
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STUDIES IN TECHNICAL CO-OPERATION



MODERN LIGHTING *and* ADEQUATE  
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*in* NURSES' HOME

by EMIL R. JOHNSON  
*Registered Architect*  
*Uniontown, Pa.*

Their recommendations on the use of light, both for decorative and utilitarian purposes, were based on a sound understanding of the part light can play in providing welcome comfort and convenience. Their knowledge of trends in the ever widening applications of electricity suggested standards for a wiring installation that would be adequate for both present and future requirements.

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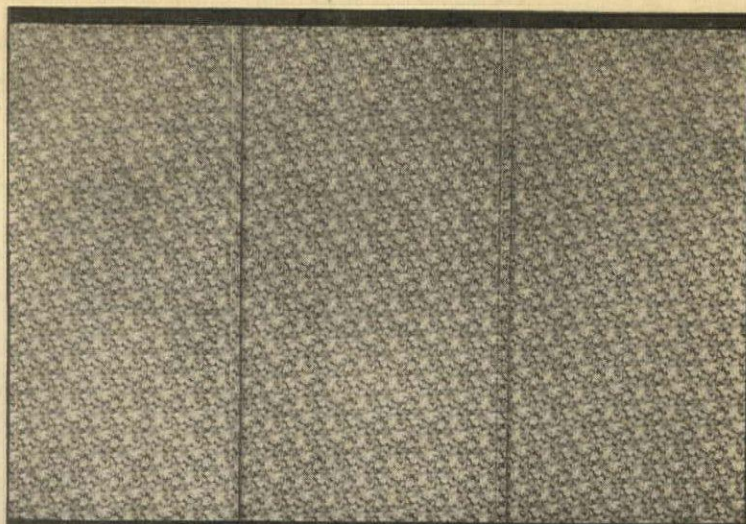
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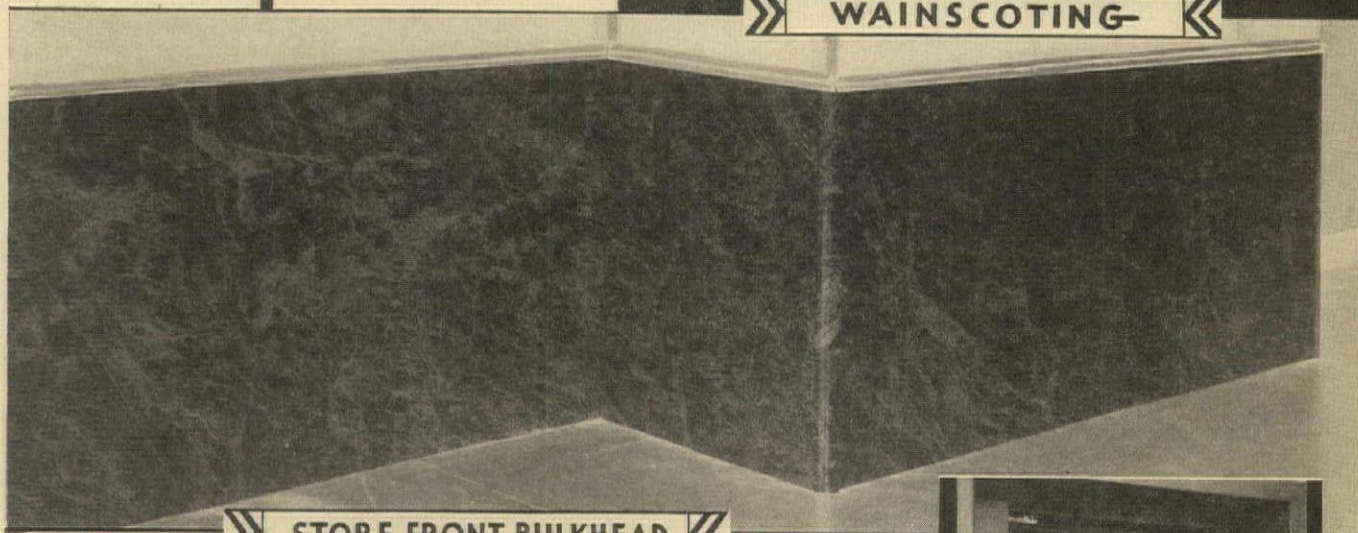
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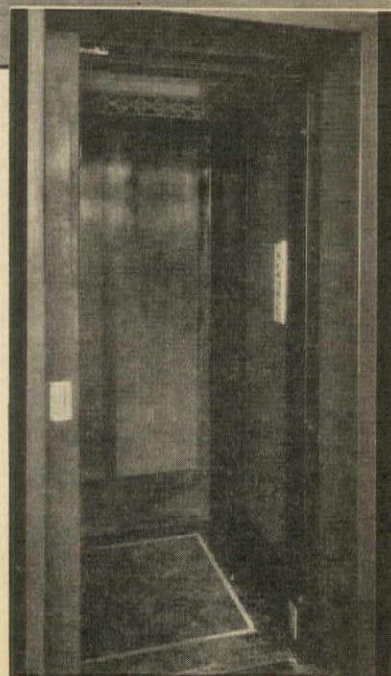
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[ *The above quotations are taken from an article by Mr. Stuart Chase, appearing in the November issue of FORTUNE* ]

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