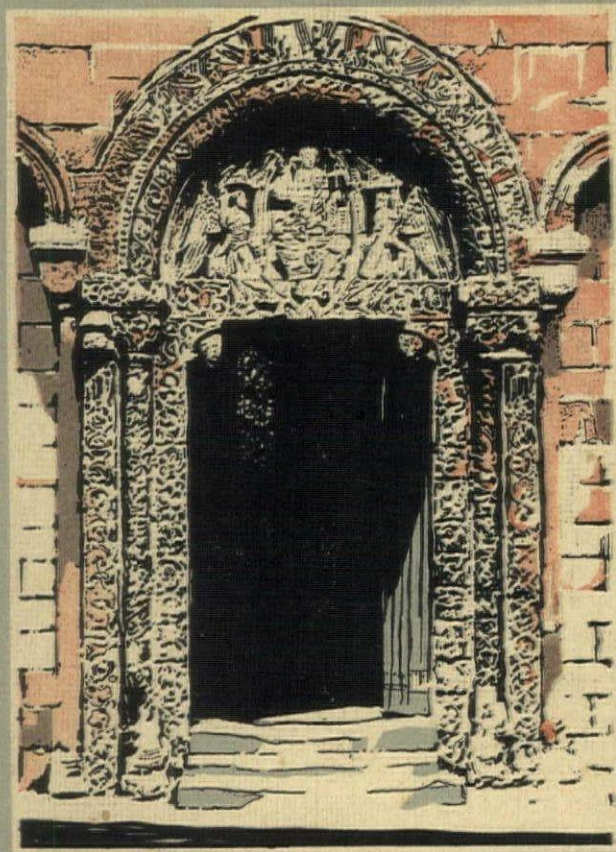
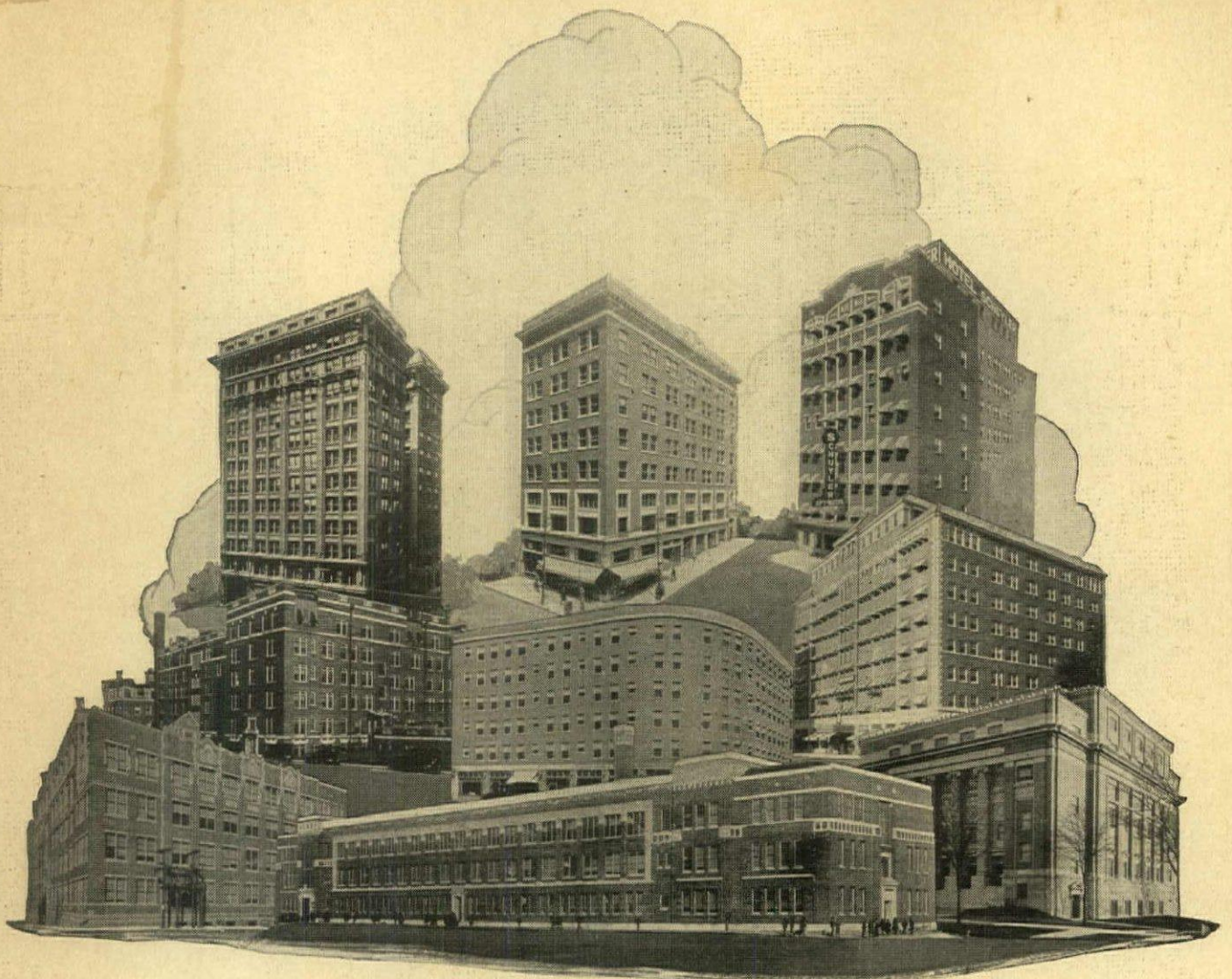


THE
ARCHITECTURAL
FORUM



AUGUST
1926



A group of Kansas City buildings that are equipped with *Ideal*

Standardize on *Ideal* for Elevator Door Efficiency

Perfect operation and control are guaranteed when *Ideal* Elevator Door Hardware is installed. For while hangers, closers, checking devices and safety interlocks are distinctly separate mechanisms, they all synchronize perfectly when installed together. *Complete Unit Control* under a single responsibility is assured. Door weight is evenly distributed; doors glide on steel ball bearings along heavy, dirt-proof track, smoothly and noiselessly. Speed and quiet are important *Ideal* features. Either mechanical or electric inter-locks can, like all other *Ideal* elevator door hardware, be added without changing present controller mechanism. If, in addition to speed and freedom from trouble, you want real elevator door safety, write us for complete information. Our engineers are at your service.

Richards-Wilcox Mfg. Co.
"A Hanger for any Door that Slides."

AURORA, ILLINOIS, U. S. A.

New York Boston Philadelphia Cleveland Cincinnati Indianapolis St. Louis New Orleans
 Chicago Minneapolis Kansas City Los Angeles San Francisco Omaha Seattle Detroit
 Montreal • RICHARDS-WILCOX CANADIAN CO., LTD., LONDON, ONT. • Winnipeg

(626)

Largest and most complete line of door hardware made



True Economy in Home Building

IN the first group of a series of model homes now being constructed throughout the country by the Home Owners' Service Institute, Natco Hollow Building Tile is being used for the walls of many of the homes. These homes, ideal in design, construction and equipment, will have Natco walls because Natco Hollow Building Tile best meets the need of the Institute for an economical wall material which will give permanent satisfaction.

WALLS of NATCO TILE ARE DRY

The double shell construction eliminates through mortar joints. This, combined with the still air spaces in the tile walls, between the inner and outer shells, prevents heat, cold and moisture from penetrating. Stucco and plaster applied to firesafe Natco walls will not crack, scale, craze or come off. The large units, being light and easily handled, save in time, labor and mortar.

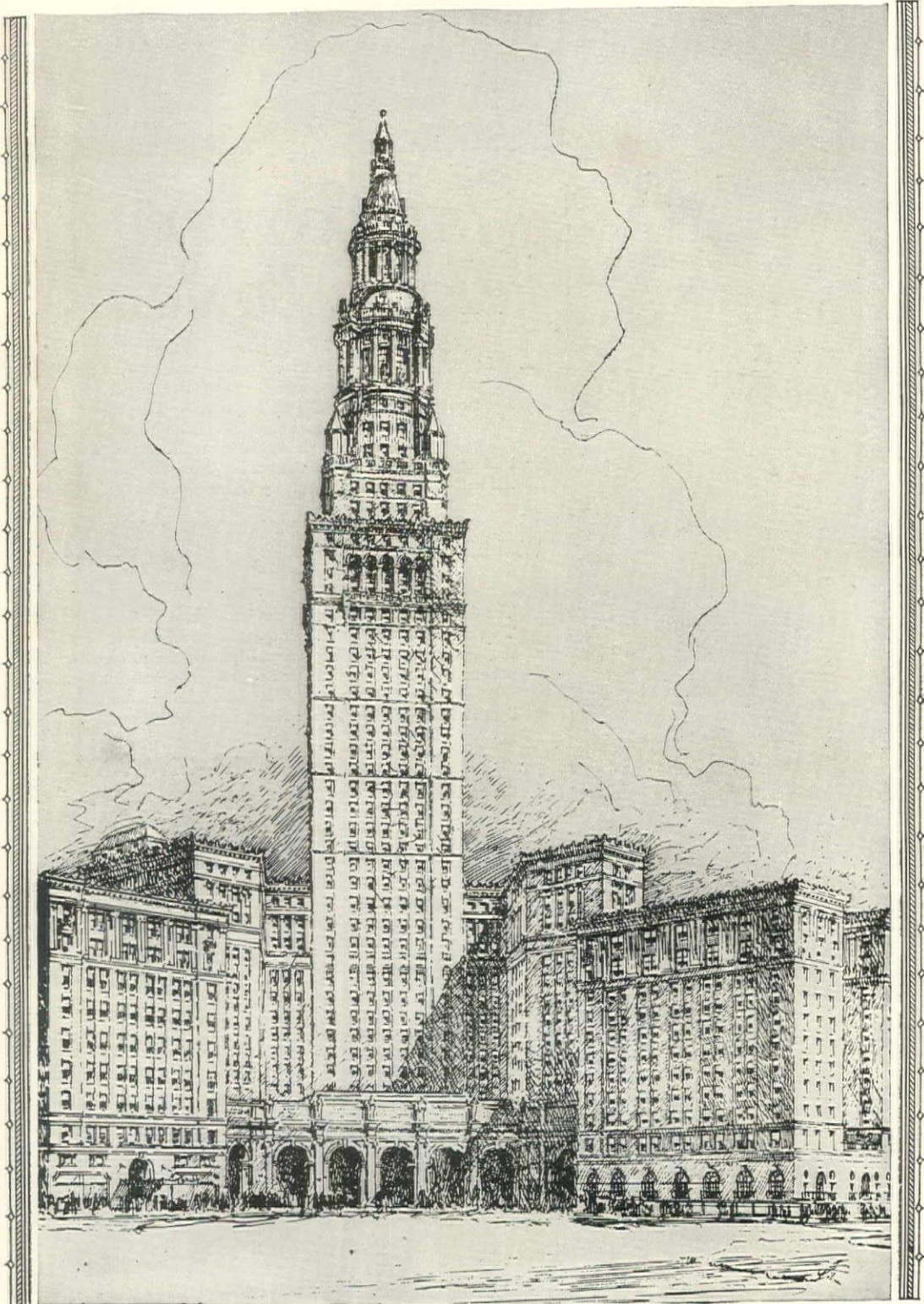
NATIONAL FIRE PROOFING COMPANY

General Offices: 609 Fulton Building, Pittsburgh, Pa.

IN CANADA:
National Fire Proofing Company of Canada, Ltd.
Dominion Bank Building, Toronto, Ont.



EVERYONE allied with the building industry should make it a point to secure a copy of the new Natco Tex-Tile book. It tells an authoritative story of true economy in home building. Write for it today.

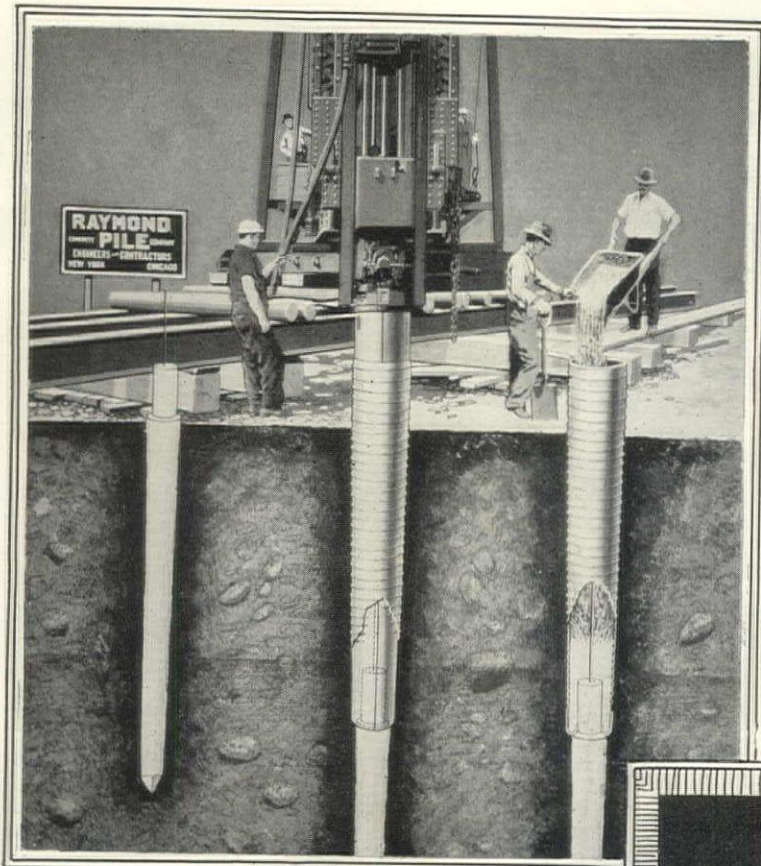


The Tower Building, Cleveland Union Terminals Company, Cleveland, Ohio
 Engineer, Mr. H. D. Jouett; Architects, Graham, Anderson, Probst & White of Chicago
 General Contractors, The John Gill & Sons, Cleveland, Ohio

TRUSCON
 SOLID STEEL
DOUBLE-HUNG WINDOWS
 COUNTER WEIGHTED

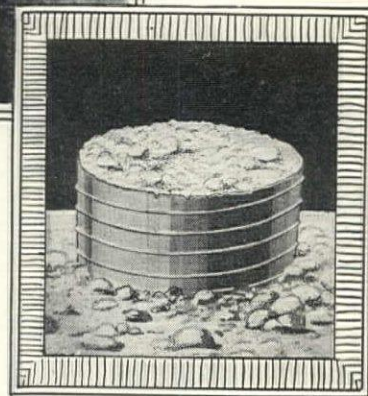
QUALITY WINDOWS FOR GOOD BUILDINGS

TRUSCON STEEL COMPANY, YOUNGSTOWN, OHIO
 Warehouses and Offices in All Principal Cities



See the strong,
simple bond
of timber to concrete

See how the concrete
is poured in the shell
that is left in the ground



When you specify Raymond
Composite Piles,
you can be certain of absolute
satisfaction—for the strength of
the Joint and the accuracy of
alignment are guaranteed by the
Raymond reputation.

*A Form
for Every Pile—
A Pile
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RAYMOND

KEWANEE

Towers above them all



The
Tower Theatre
SEATING CAPACITY
4000 SEATS
63rd and Harper Avenue
CHICAGO

TOWER THEATRE BLDG CORPORATION—Owners
LUBLINER & TRINZ—Lessee
FREIDSTEIN & CO.
Architects
E. J. CLAFFEY CO
Heating Contractors

HEATING INSTALLATION
Two No. 323
One No. 324
KEWANEE
Smokeless Firebox Boilers
19000 Square Feet KEWANEE
Direct Radiation
8050 Square Feet Blast (*vento*)
One No. 45 Type "H"
KEWANEE
Water Heating Garbage Burner



Whether it's in a fine theatre heated well and dependably for the evening's entertainment, or whether it's in an apartment kept cozy for your return home, there you will find KEWANEE Steel-riveted Boilers excelling in heating service.

KEWANEE BOILER COMPANY — KEWANEE, ILLINOIS BRANCHES IN ALL PRINCIPAL CITIES
STEEL HEATING BOILERS • RADIATORS • WATER HEATERS • TANKS AND WATER HEATING GARBAGE BURNERS



Steelhart

*A New
And Better
Stucco Mesh*

HEARTILY endorsed by builders as a scientifically correct, practical and moderately priced stucco base and reinforcing.

STEELHART Expanded Metal Stucco Mesh provides a rigid, continuous strengthening steel framework or "skeleton" for either hand applied or "gunited" stucco, checking cracking tendencies and giving permanence to the work.

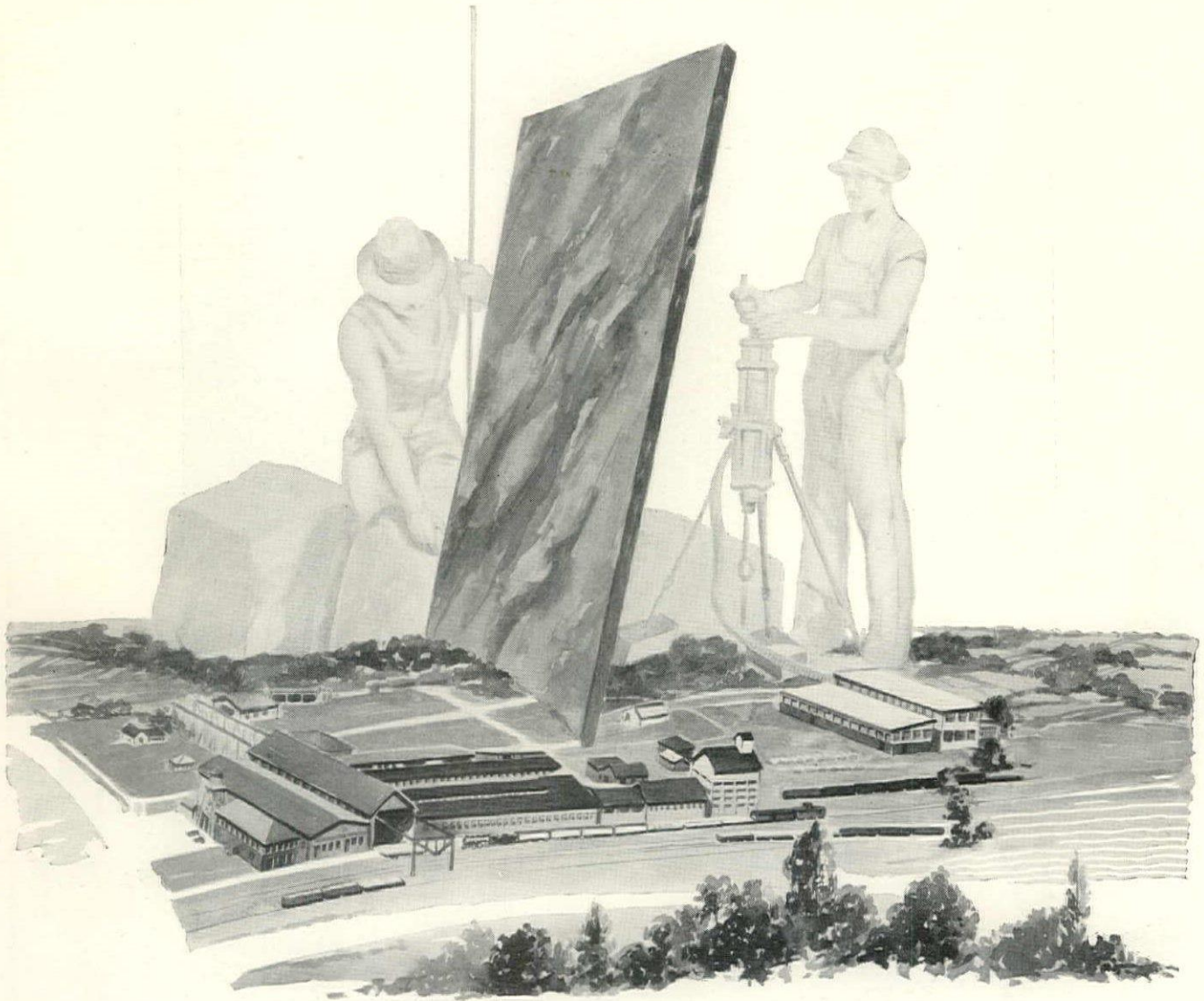
No stretching is needed. And with the use of the self-furring nails shown above, the need for separate furring is eliminated.

The "diamonds" are correctly shaped and sized to give free access to the mortar so that it completely fills the space back of the mesh, properly imbedding the steel, thus placing the reinforcement where it belongs—in the very heart of the cement slab.



*Samples of STEELHART and descriptive circular gladly sent.
We suggest a trial of this very satisfactory stucco base.*

NORTH WESTERN EXPANDED METAL COMPANY
1234 Old Colony Bldg., CHICAGO



Best interior marbles are inexpensive

Interior marble, whether for ashlar work, floors or the complete interior of an especially large project is not only inexpensive in comparison to its great beauty but its maintenance cost, where our own Appalachian Tennessee Marble is used, is nil.

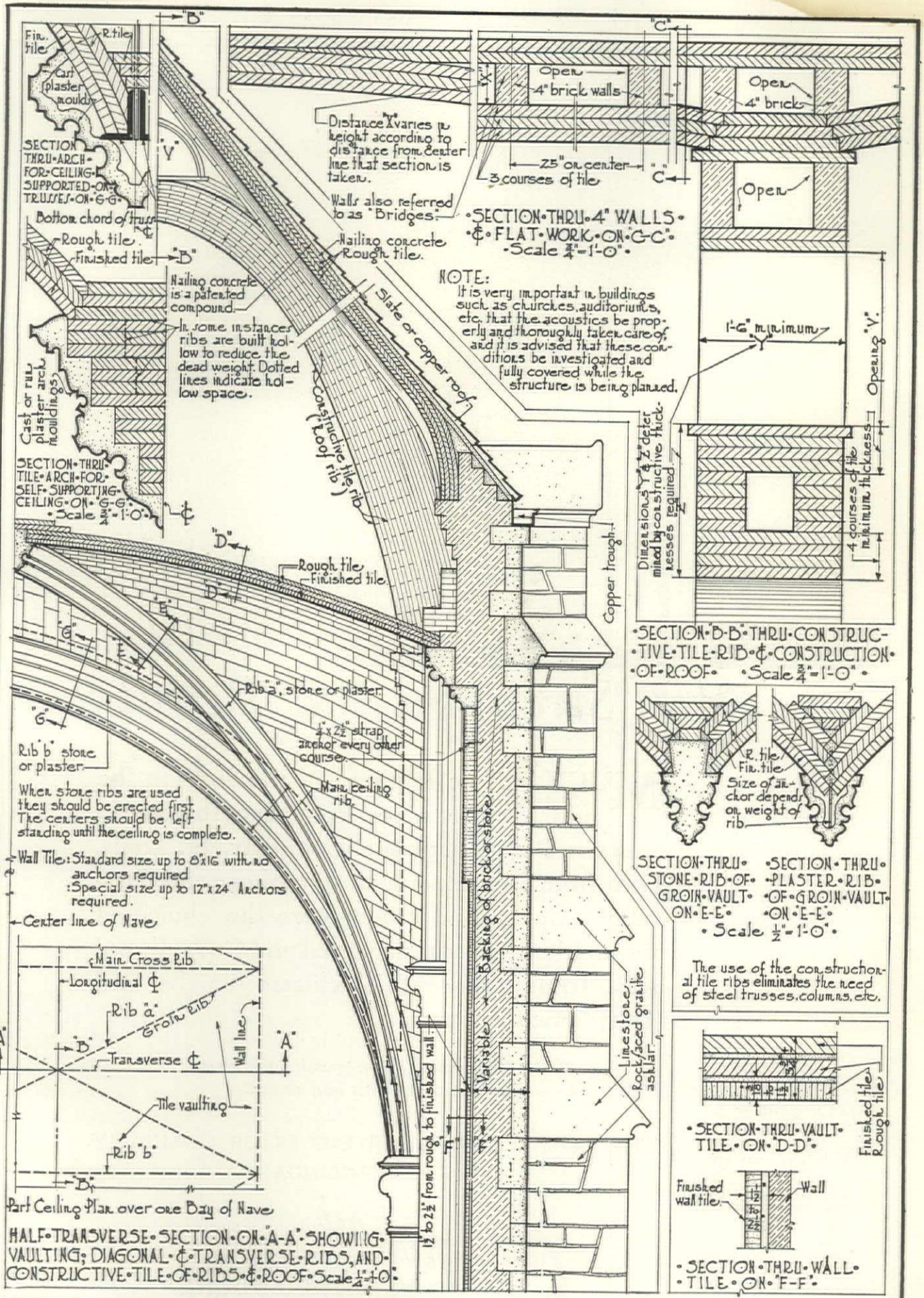
Our great quarrying and mill facilities, modern, efficient methods and machinery and our utilization of all waste enable us to furnish marble at a price that makes it available for even those projects where cost must be kept low.

Furthermore, we can quote on foreign marbles advantageously to the buyer because of our import relations with the leading foreign quarries.

Our Service Department, composed of experienced interior marble engineers, will gladly advise with you on any project you think might well include interior marble; or will promptly furnish you with exact cost estimates on any project, specifying interior marble, in which you are interested.

PRODUCERS
Exclusively
of
SINCERE
MARBLE

APPALACHIAN MARBLE COMPANY
Knoxville
Tennessee,



R - Gustavino & Company
 FACTORY WOBURN, MASS. - New York - Boston - DETAIL SHEET



Administration Building of The
Southwestern Bell Telephone Com-
pany, St. Louis. Westlake Con-
struction Co., Builders

Inseparably Bonded for Strength and Beauty

MMUCH will be required of the doors in the new Administration Building of the Southwestern Bell Telephone Company, St. Louis, both from a standpoint of appearance and durability. Compound Doors were the choice of the architects, Mauran, Russell and Crowell, and I. R. Timlin, Associate Architect for the Bell Telephone Company.



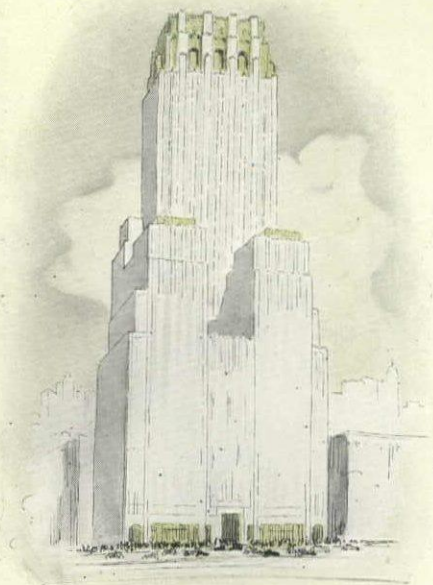
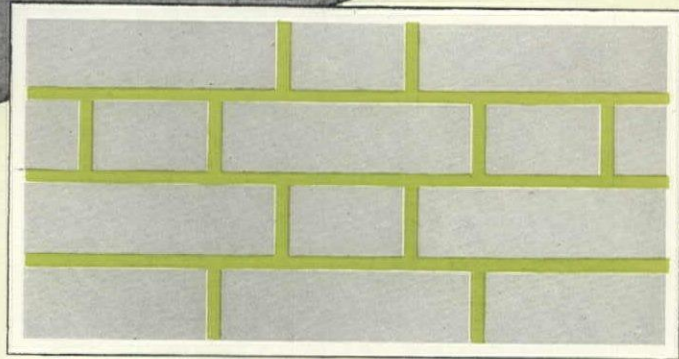
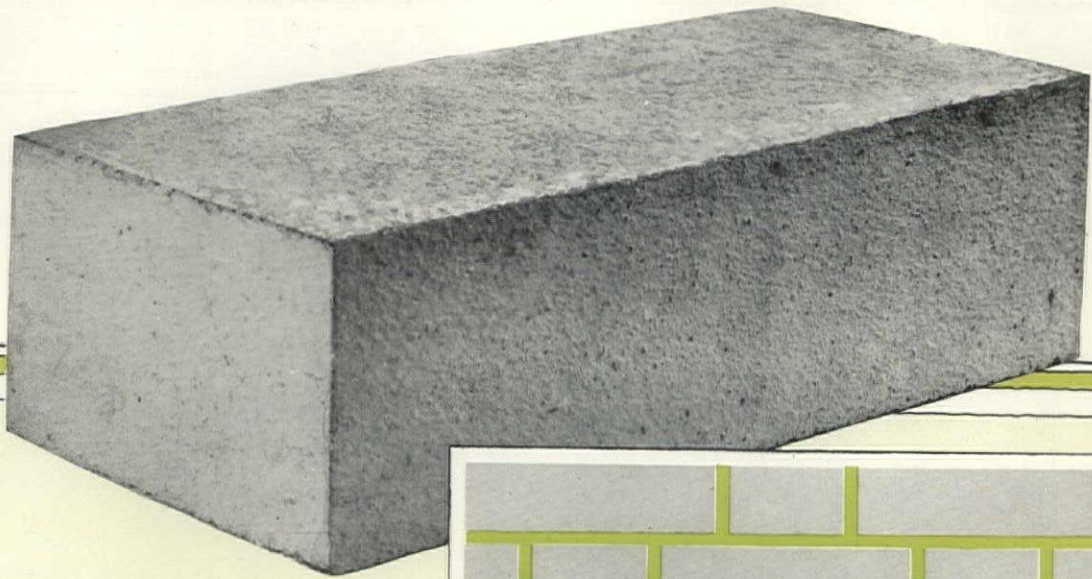
The cross-sectional view above shows why COMPOUND VENEERED DOORS outlive the building. Panels are five ply. $\frac{3}{4}$ " laminated, soft wood core. Sawed stile and rail veneers. $\frac{1}{8}$ " in thickness—tongued and grooved, doubling the gluing surface and locking veneer and core in an inseparable bond.

Write for sample of Compound construction,
and data on cost and design.

THE COMPOUND & PYRONO DOOR COMPANY
ST. JOSEPH, MICHIGAN

Compound
VENEERED DOORS

MADE BY AMERICA'S OLDEST VENEERED DOOR SPECIALISTS



The setback is an architectural asset because it breaks up the monotony of huge wall areas. The heavy horizontal lines which the setback involves, create shadows which emphasize the value of brick textures and bring out, in a wall built of "SUMMER GREYS", the brick's vitality, individuality and architectural character.

When used in this fashion the rich coloring and textures of "SUMMER GREYS" add strong emphasis to the structural dignity of the building.

Dry Press and Wirecut in all shades and textures

SUMMER-GREYS
Worthy to rank with "Bradford Reds"



HANLEY COMPANY, Inc.

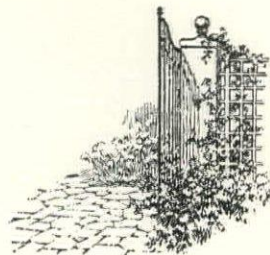
9 East 46th Street, New York City
 Bradford, Pa.

formerly
 BRADFORD BRICK & TILE CO.
 Plants at Bradford, Lewis Run, Summerville, Pa.

Olde Stonesfield Flagging



Cut to pattern Olde Stonesfield Flagging on grounds of Ernest E. Rogers, Pequot, New London, Conn., Dwight James Baum, Architect, A. Graham Creighton, Associate, Olmstead Bros., Landscape Architects



Answering Your Seekings For Flagging Variants

If you could but come with us to our Extensive Collecting Field, in Vermont, you would at once see how it is we can supply on such short notice, Flagging in all shapes, thicknesses and wide gamut of colorings.

Natural breaks and cleavages are there on every hand. Men are at work shaping the random rectangular. Others are cutting the flagging to fit certain patterns, as they did for the subject above.

Everywhere, you would see vast piles of sorted Olde Stonesfield, which have come direct from Vermont's finest quarries. Quarries, either owned outright or fully controlled by Emack.

Flat stones are one thing. Olde Stonesfield Flagging is quite another. Let's not confuse the two.

23A—Graduated Olde Stonesfield Roofs.

23B—Thatchslate Roofs.

23C—Olde Stonesfield Flagging.

THE JOHN D. EMACK CO.

Roof and Flagging Displays at Our Offices

Home Office: 112 South 16th Street, Philadelphia

New York Office: 17 East 49th Street

THE JOHN D. EMACK CO.

America Needs More Garages in Her Cities

This very important opportunity for the creation of architectural commissions should engage the attention of architects in every city of over 25,000 population. In the recent past over 100 modern, multi-floor buildings have been erected. That they are exceptionally profitable is a matter of record. To aid you in formulating ideas on this subject we urge you to read "Planning Garages for Profitable Operation." It will be sent, gratis, on request. Ask for the latest "F" edition.



RAMP BUILDINGS CORPORATION

21 East 40th Street

New York, N. Y.

GARAGE ENGINEERS

CONSULTANTS ON PROMOTION AND GARAGE OPERATION



The Barry Apartments, Chicago, Ill., Robert S. DeGolyer & Co., Architects

Delicate Tints in Face Brick

THE Barry Apartments are a striking example of the use of delicate tints in beautiful brickwork. The Face Brick is in light buff. Its color and texture is emphasized by the terra cotta trim.

You will find many splendid examples of the modern use of Face Brick in "Architectural Detail in Brickwork," a portfolio of many halftone plates, showing various treatments of the brick wall surface, ready for filing. It will be sent postpaid to any architect making request on his office stationery.

"English Precedent for Modern Brickwork," a

100-page book, beautifully illustrated with halftones and measured drawings of Tudor and Georgian types and American adaptations, sent postpaid for two dollars.

"Brickwork in Italy," 298 pages, an attractive and useful volume, especially for the architect, profusely illustrated with 69 line drawings, 300 halftones, and 20 colored plates with a map of modern and XII century Italy. Bound in linen, will be sent postpaid upon receipt of six dollars. Half morocco, seven dollars.

AMERICAN FACE BRICK ASSOCIATION

1751 Peoples Life Building • Chicago, Illinois



HEGGIE-SIMPLEX

ELECTRIC-WELDED STEEL BOILERS



JAMES G. HEGGIE

who in 1892 founded the Heggie Organization and today is President of the Heggie-Simplex Boiler Co.

For 34 years Heggie has justified public confidence

THROUGHOUT a third of a century, the organization headed by James G. Heggie has so consistently maintained high quality in the fabrication of boilers and steel plate work of all kinds, and has dealt with such unflinching, unvarying integrity, that it is frequently said in the trade, "If Heggie makes it, it must be right!"

To justify the Heggie name, the Heggie-Simplex boiler had to be outstanding. A boiler whose design throughout is based upon scientific heating principles, free from tradition. A boiler that combines in one portable steel unit the recognized advantages of all earlier types. A boiler built to Heggie standards in every detail, so as to be "The Quality Boiler of the Market."

HEGGIE-SIMPLEX BOILER COMPANY, Joliet, Illinois

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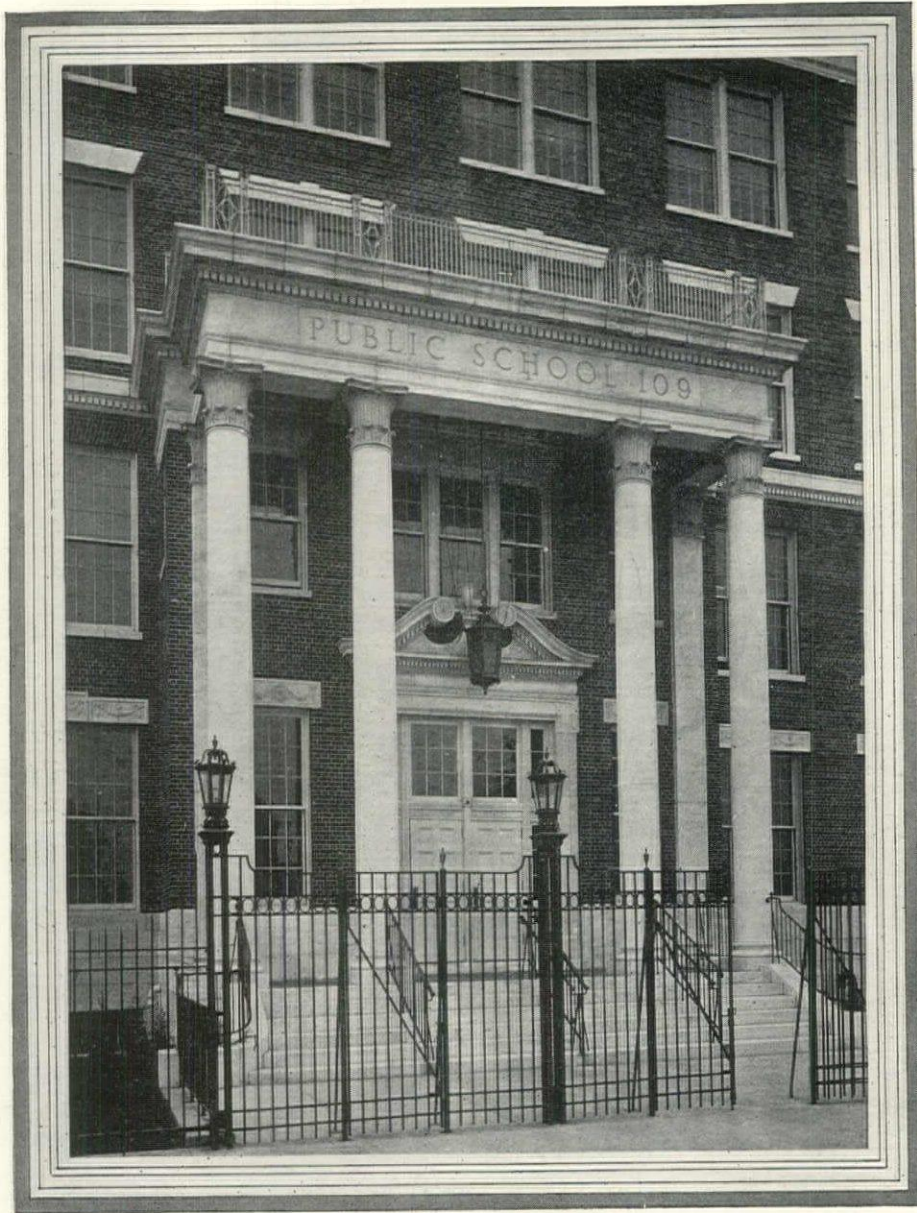
Akron	Chicago	El Paso
Albuquerque	Cincinnati	Evansville, Ind.
Amarillo	Cleveland	Fort Wayne
Atlanta	Columbus	Harrisburg
Baltimore	Dallas	Houston
Birmingham	Davenport, Ia.	Indianapolis
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Just look up "Heggie-Simplex Boiler Co." in the phone book in any of the above cities for representative's number and address



A NEW YORK PUBLIC SCHOOL ENTRANCE PORTICO
WM. H. GOMPERT, ARCHT., SUPT. OF SCHOOL BUILDINGS

PUBLIC SCHOOLS

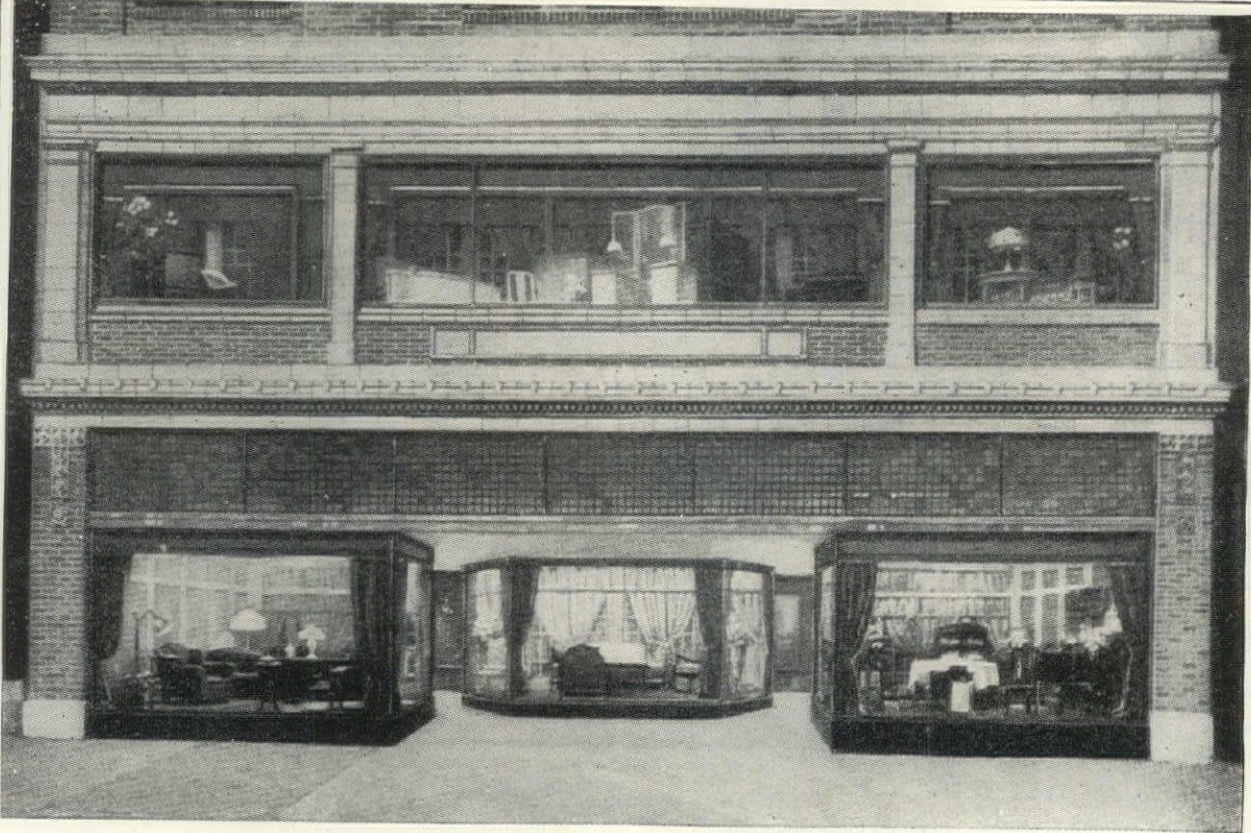
GEORGIA MARBLE was selected as exterior trim for about thirty-five New York City public schools only after a most careful investigation as to its merits, especially its wearing and weathering qualities.

The portico motive, all trim, and even the steps and door sills are White Georgia Marble. This marble for steps is no experiment; it is recognized as having the wearing qualities necessary for this use.

The Georgia Marble Company, Tate, Georgia; New York, 1328 Broadway; Atlanta, 511 Bona Allen Building; Chicago, 456 Monadnock Building.

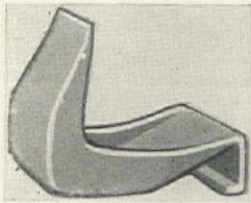
GEORGIA MARBLE

Zouri key-set store front construction



An ideal arrangement for the front of a furniture store, offering first and second floor display

Zouri Key-Set Store Front Construction



The Zouri Drawplate, which moves gently forward as the screw, revolved by the setter's key, descends on its sloping inner surface. This pressure is distributed indirectly along the copper gutter.

—offers in addition to uncommon beauty of design, important structural advantages.

Zouri's many distinguishing features, planned to hold plate glass gently and firmly against shocks and wind pressure, prevents breakage and the start of ugly cracks. Interruptions of display are thus avoided, a fact that more than pays the architect, contractor and retailer for Zouri's choice.

Distributors of glass who dominate their markets have, during 14 years, selected Zouri as a factor of safety in installations.

Useful detail sheets and data book sent on request

Zouri Drawn Metals Company

Factory and General Offices

1608 East End Avenue, Chicago Heights, Illinois

DISTRIBUTORS IN PRINCIPAL CITIES—NAMES ON REQUEST

Zouri key-set store front construction

Announcement of An Architectural Competition

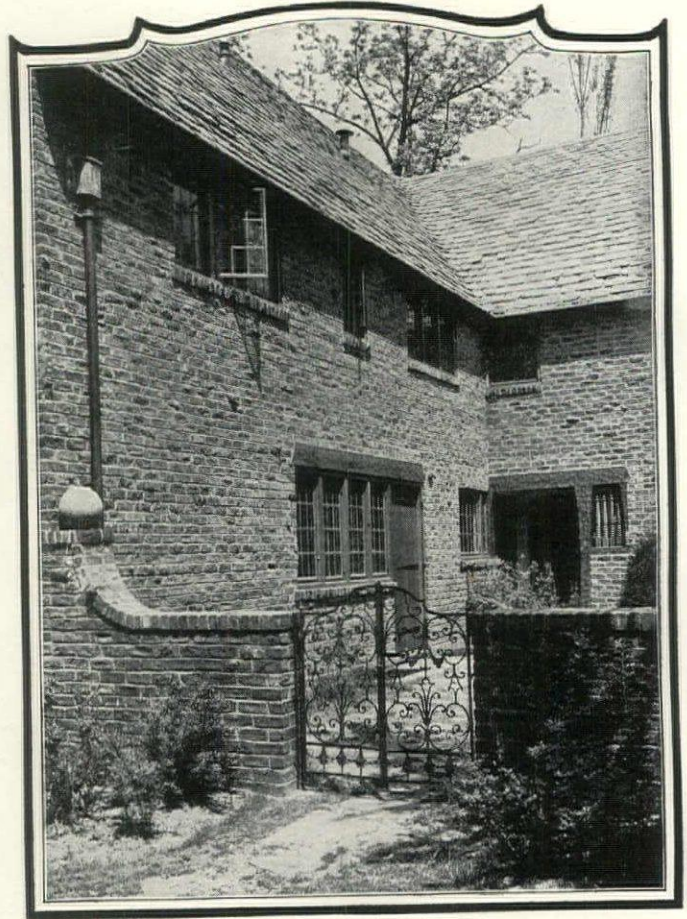
Photographs and Plans of Common Brick Houses

THIS competition has been simplified to an unusual degree. It is open to any architect, architectural firm or designer. It requires no sketch plans. It calls only for photographs and plans of houses or bungalows already constructed—or completed before the contest closes November 16, 1926.

Thus the contest requires very little time on the part of the architect, yet substantial rewards are offered. The jury will consist of three architects of national reputation in residential design.

The purpose of this competition is to bring together a collection of the best among the many houses being built with Common Brick exteriors. Whenever these photographs are published, the name and location of the architect will be given.

Full details of this competition may be secured by writing the COMMON BRICK HOUSE COMPETITION, care of The Architectural Forum, 383 Madison Avenue, New York.



Award List

- First Prize \$1,000
- Second Prize 500
- Third Prize 300
- Fourth Prize 100
- 10 Honorable Mentions
at \$50 each

THE COMMON BRICK MANUFACTURERS' ASSOCIATION of AMERICA

At Your Service
These District Association Offices and
Brick Manufacturers Everywhere

- Chicago . . . 614 Chamber of Commerce Bldg.
- Denver 1735 Stout St.
- Detroit, Mich. 400 U. S. Mortgage Trust Bldg.
- Hartford, Conn. 226 Pearl St.
- Los Angeles 342 Douglas Bldg.
- New York City, 1710 Gr'd Cen. Term'l Bldg.
- Norfolk, Va. 112 West Plume St.
- Philadelphia 303 City Centre Bldg.
- Portland, Ore. 906 Lewis Bldg.
- Salt Lake City 301 Atlas Bldg.
- San Francisco 932 Monadnock Bldg.
- Seattle, Wash. 913 Arctic Bldg.
- Springfield, Mass., 301 Tarbell-Watters Bldg.

2134 Guarantee Title Bldg.
Cleveland, Ohio

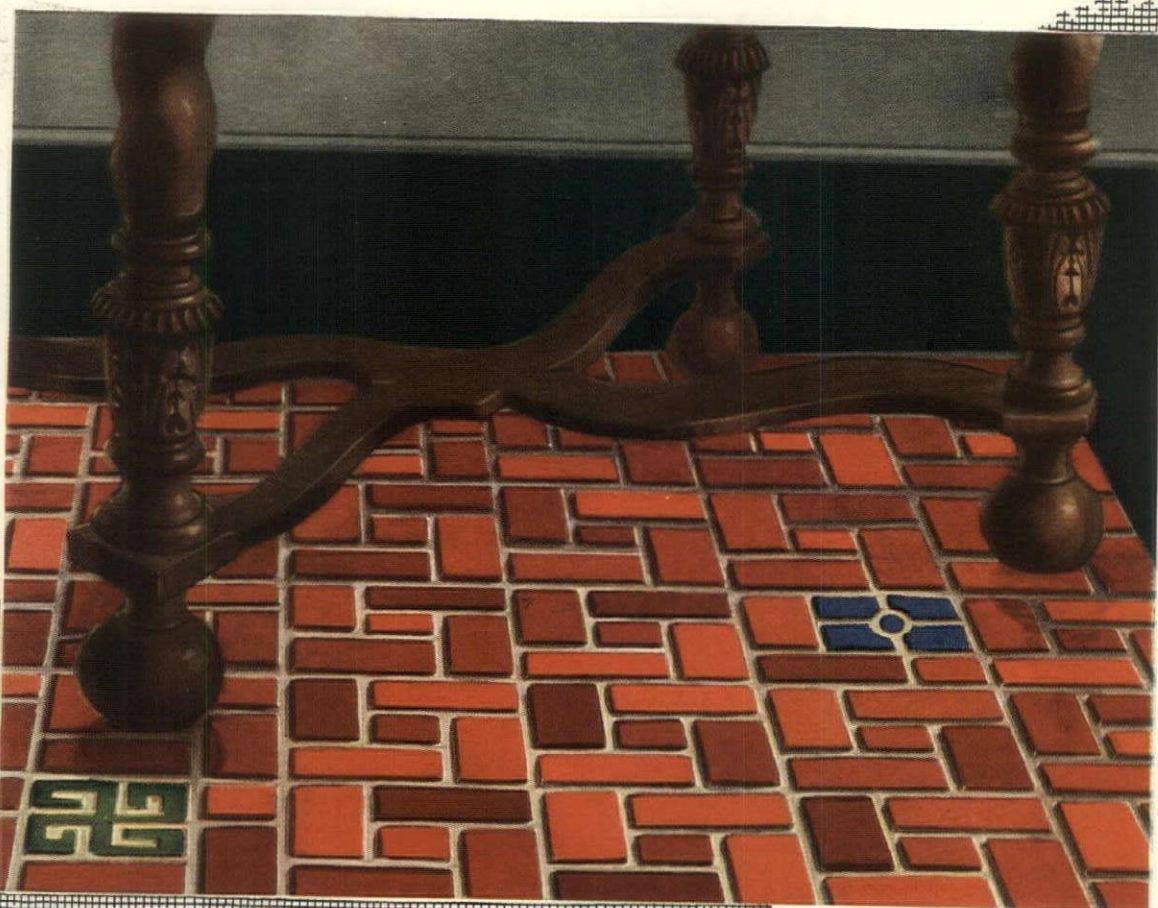


Brick Books for Your Use

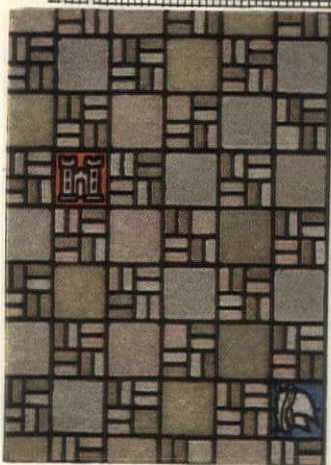
- "Skintled Brickwork" (15c)
- "Brick, How to Build and Estimate" (25c)
- "Hollow Walls of Brick"—FREE

Check above, and send for any or all of these books.

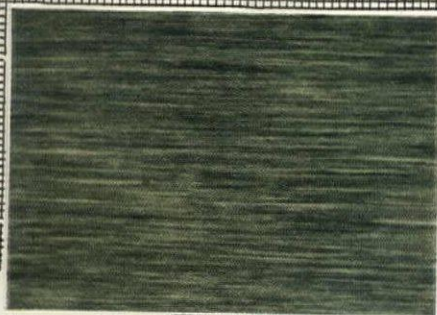
Armstrong's Linoleum for every floor in the house



A close-up of one of the fine Embossed Inlaid floor designs in Armstrong's Linoleum—Pattern No. 6028 (Patented). Note the hit-and-miss arrangement of the colors, the irregular dropping into the pattern of vari-colored figured blocks, the raised effect of the tiles.



ARMSTRONG'S EMBOSSED HANDCRAFT
TILE INLAID No. 6005 (PATENTED)
A 4½-inch block design



ARMSTRONG'S GREEN
JASPE No. 19
Jaspé is made in five
additional colorings

Embossed Tile Inlaid Linoleum— Different from Any Floor You Know

HERE IS LINOLEUM that has not only color, pattern, luster—but more. It has actual *texture*—a rich embossed effect of old hand-set ceramics. Each unit in the design is actually *raised* above the surface. It is an entirely new Armstrong achievement in linoleum manufacture.

The colors include soft, pastel shadings of heather browns, dusk blue-greens, tapestry tans, and rugged brick reds. The designs are not repeated regularly, but are varied in a pleasing handcraft manner. Heraldic and

figured emblems inserted here and there complete the Old-World effects in this modern floor material.

Here is a real achievement in floor beauty that merits your consideration when you plan your next home or business project. Our Bureau of Interior Decoration will gladly send you, by return mail, generous-size quality samples and colorplates of these new Embossed Tile Inlaid Linoleum designs, as well as other linoleum floor suggestions for interiors you may be planning.

Look for the
CIRCLE A
trade-mark on
the burlap back

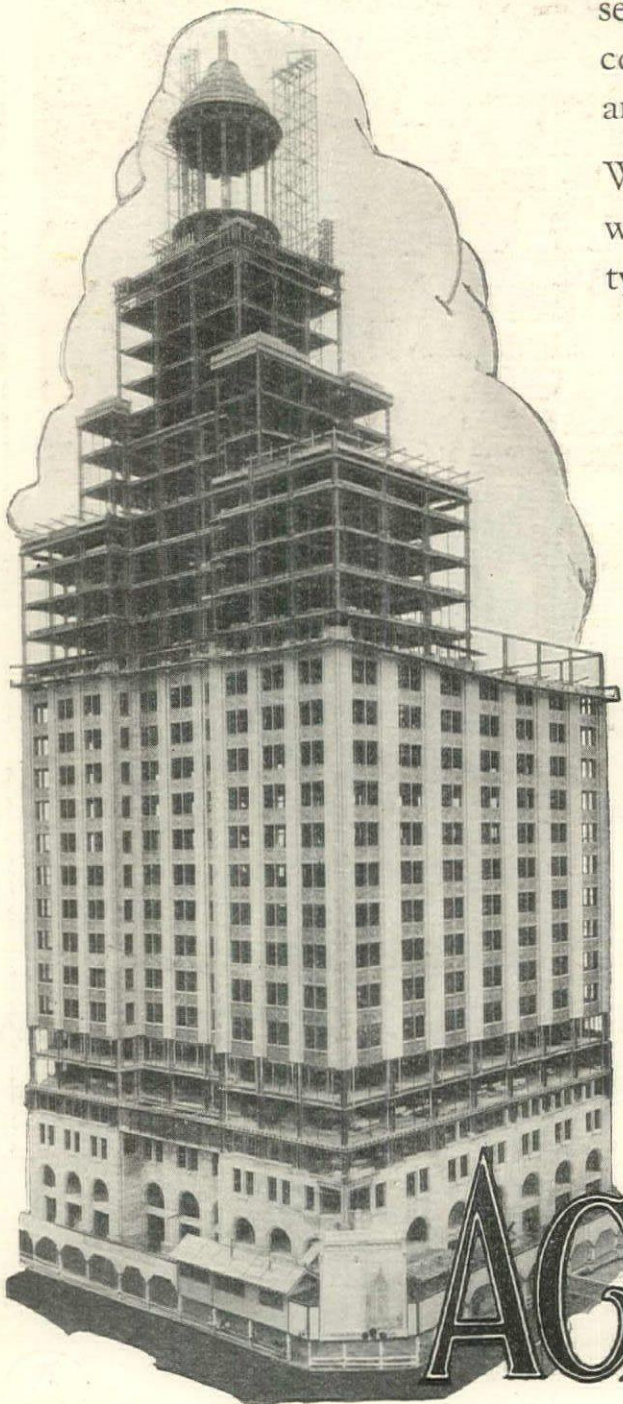


Armstrong Cork Company, Linoleum Division, Lancaster, Pennsylvania

Grand Spires of Commerce in Weatherproof Face Brick

The Esperson Building
Houston, Texas

JOHN EBERSON, Architect
AMERICAN CONSTRUCTION
COMPANY, Builders



No material is more adaptable nor expressive of subtle texture and mellow colorings than Face Brick.

The Esperson Building is faced with Acme Perla Weatherproof Brick—selected by architect and owner for color, texture, durability, simplicity and strength.

We are manufacturers of the products we sell and make "a brick for every type—a color for every color scheme."

Acme Brick Company *Manufacturers*

Plants—Owned and Operated
Bennetts and Denton, Texas
Fort Smith, Little Rock, Malvern, Perla
and Pine Bluff, Arkansas
Cleveland, Oklahoma City and Tulsa,
Oklahoma

Capacity 170 Million Brick Annually

Offices and Display Rooms
(Where Your Color Schemes Can Be Solved)

Abilene, Texas	Lake Charles, La.
Alexandria, La.	Little Rock, Arkansas
Amarillo, Texas	Memphis, Tennessee
Beaumont, Texas	New Orleans, La.
Corsicana, Texas	Oklahoma City, Okla.
Dallas, Texas	Port Arthur, Texas
Ferris, Texas	San Antonio, Texas
Ft. Smith, Arkansas	Shreveport, La.
Fort Worth, Texas	Tulsa, Oklahoma
Galveston, Texas	Waco, Texas
Houston, Texas	Wichita Falls, Texas

ACME BRICK

yes, insulation now pays for ITSELF!

THE cost of insulating material and the cost of putting it up need no longer be "extra expense," even though the added comfort and security are worth it.

Our new product is *all wood*, not a substitute. A new process now produces *perfected manufactured lumber* for *structural insulation*.

It goes up with greater rapidity and efficiency than old-fashioned sheathing—insulates and deadens sound at the same time. *And there is no waste*. It is a perfect plaster base, eliminating lath—or interior finish ready to receive decoration, no plaster required.

What's Its Name?

What is the name of this new product? Its name is destined to be one of the most important in the building field. The men behind it () will announce the name in an early issue of this publication.*

STRUCTURAL INSULATION

USED FOR SHEATHING, the new all-wood product adds to the strength and permanence of any structure. It insulates and deadens at the same time, and to an unexcelled degree. This we are prepared to prove by test and example.

WE GUARANTEE IT for superior insulating qualities. We would like to send you a sample.

SEND FOR DETAILS concerning this all-wood *manufactured lumber*—its discovery, its manufacture, its many profitable uses, the men behind it. We will send you complete information, including sample, if you will send us your name and address.

MASON FIBRE COMPANY

Dept. 608 111 W. Washington St.
CHICAGO, ILL.

The men behind it

These are the officers, directors and executives of the Mason Fibre Company. You know them. They endorse the new product with enthusiasm.

* * *

S. B. BISSELL, Treas. Wausau Southern Lumber Co., Treas. Marathon Lumber Co.; W. H. MASON, inventor of the process; BEN ALEXANDER, Vice-Pres. Silver Falls Timber Co.; AYTCH P. WOODSON, Sec. Yawkey-Bissell Lumber Co., Sec. B. C. Spruce Mills, Sec. Wausau Southern Lumber Co., Sec. Marathon Lumber Co.; BROWN KATZENBACH, C.P.A.; CHARLES GREEN, Pres. Eastman, Gardiner & Co.; M. P. McCULLOUGH, Vice-Pres. Brooks & Ross Lumber Co., Vice-Pres. B. C. Spruce Mills; A. J. GLASSOW, Mgr. Wausau Southern Lumber Co.; D. C. EVEREST, Sec. and Gen. Mgr. Marathon Paper Mills Co.; R. G. WALLACE, Gen. Sales Mgr., formerly Vice-Pres. and Gen. Sales Mgr. Natco Hollow Tile.



60 apartments

get perfect electric refrigeration from *three* Coldak machines in the basement

THE building shown above is the Lexington and Concord Apartments, in Somerville, Mass. It was designed by Arthur H. Bowditch, the well-known Boston architect.

This building contains *sixty* apartments. These apartments all get perfect refrigeration from only *three* Coldak machines, installed as a unit in the basement.

No other system is like it. Coldak was developed especially for apartment houses. It is a system that supplies refrigeration to as many as 25 apartments from *one* machine—just as one heater supplies many radiators. And the Coldak System can be expanded indefinitely—two machines for 50 apartments, three machines for 75 apartments, etc.

The advantages of the Coldak System are apparent when compared with other refrigerating systems.

No similar system can supply more than 6 apartments from *one* machine located in the basement.

Brine circulating systems are vastly more expensive. The cost of installing the Coldak System is only a fraction of the usual cost of a brine installation. The life of Coldak is infinitely longer, because the refrigerant used will not eat away the pipes.

Individual installations in each apartment cannot be compared with Coldak. They make it necessary to install all the machinery in the kitchen. With Coldak all the machinery is installed in the basement, out of the

way. No machinery in the living quarters. No noise or service calls to annoy the tenants. They get perfect refrigeration as conveniently as they get light, water and heat.

If the smaller Coldak, however, were installed individually in each apartment, they would still have the advantage of *quiet*. And the older a Coldak grows, the quieter it becomes.

The operating cost of the Coldak System is much less than that of individual installations. Coldak's cost is more than offset by the increased rental value of the apartments.

Few parts—low service cost

The simplicity of the Coldak machine has reduced the service cost to less than *half* that of other machines. Coldak has no belts, pulleys, pistons, crankshafts, reduction gears or reciprocating valves. A simple, two-stage helical gear compressor, directly driven by the motor at motor speed, does the job.

Coldak costs less to install

With Coldak, the refrigeration takes place *only* inside the ice boxes. The pipes are small and require no insulation. That makes installing easier. The initial cost is lower. The current consumed is less. And once Coldak is installed, it requires little attention other than an

occasional oiling of the motor. The oil in the compressor requires changing only about once every two years.

Coldak is the *one* ideal system of electric refrigeration for apartment houses. It is the last word in making the new apartment house completely modern—and an easy means of bringing old apartment houses up to date.

**Coldak for private homes—
and commercial uses**

The Coldak Household System offers advantages that are equally outstanding. The first Coldaks installed over six years ago are still giving satisfactory service. There is a Coldak model for every size home.

For stores dealing in perishable goods, the Coldak Commercial System offers revolutionary economies and conveniences. The one system makes possible different degrees of temperature in different compartments.

**Coldak managed by
J. G. White Management Corporation**

The Coldak Corporation secured the services of the J. G. White Management Corporation after the Coldak System had demonstrated its superiority over other types of electric refrigeration.

The services of the Coldak engineers are available to any architect. Suggestions will gladly be given about installing the Coldak System in any building, proposed or already completed.

**Note these
Specifications**

These specifications apply to the Coldak Electric Refrigerating System for apartment houses:

CAPACITY PER COMPRESSOR—At 12° F. boiling temperature of the refrigerant, and with the cooling water at 70° F., the refrigerating effect is equivalent to the melting of 1100 pounds of ice per day.

REFRIGERATION—Direct expansion. Float valve controlled chilling units, connected in multiple. Unoccupied apartments may be cut off.

COMPRESSOR—Two-stage helical gear—straight line.

MOTOR—2 H.P., 1200 R.P.M.

CONTROL—Automatic back-pressure control.

REFRIGERANT—No unpleasant odor, harmless and non-corrosive.

DISTRIBUTION—Refrigerant distributed through 3/8-inch liquid food lines and 1-inch gas return lines. No insulated pipe lines.

SAFETY DEVICES—Automatic safety valve, out-door purge, automatic overload cutout switch, high-pressure stop switch, water failure stop switch, shut-off valves on all main lines and to each apartment.

COLDKAK
CORPORATION

Eight West Fortieth Street, New York City

**You should have
this Coldak booklet**

A Coldak booklet, containing more detail information about the Coldak System for apartment houses, will be sent to you if you desire a copy. Just fill out the coupon or attach it to your letterhead.

© 1926, C. C.

A. F. 8-26

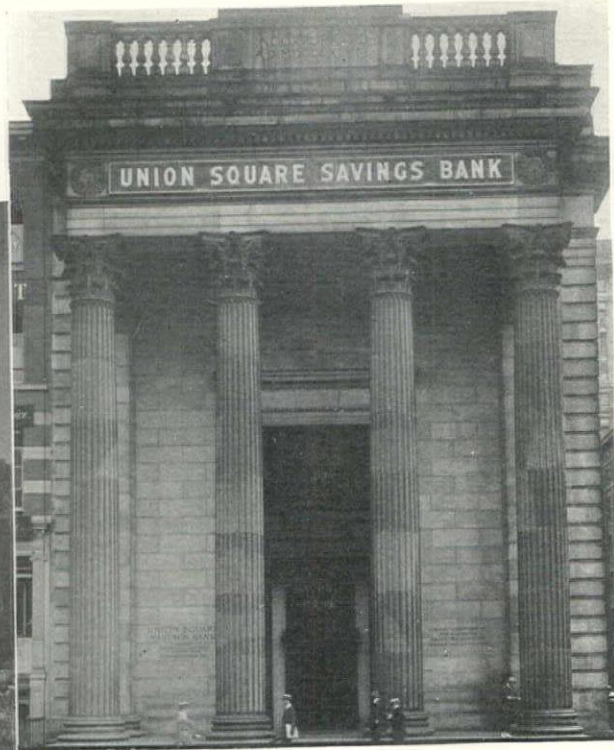
COLDKAK CORPORATION,
Eight West Fortieth Street,
New York City.

Please send me a copy of your booklet on the Coldak Electric Refrigerating System for apartment houses.

Name.....

Address.....

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

The Arch of Titus, Rome*The Modern Flexlume Electric Sign*

The Function of the Sign was Recognized Even in the Early Ages of Architecture

IN the early ages buildings, arches and market places were deemed incomplete without the actual incorporation of ideographic or lettered legends to render their purpose more definite.

Because of commercial activity the sign today is a recognized essential of modern architecture. Designers realize the importance of including in their original plans definite provision for the public message, written in clean-cut letters of translucent white by day and glowing beauty by night.

In the moulded glass letter and

variety of background the Flexlume Electric Day-and-Night Sign has a sufficient degree of flexibility to render it easily adaptable to the architect's pencil—to be made an attractive component of the building's exterior.

"Signs and Inscriptions in Architecture" is a 40-page authoritative book that gives suggestions for correct architectural lettering of signs and inscriptions on modern buildings. If you have not received a copy, have your secretary write us today.

Communicate with our Department of Design for intelligent cooperation whenever you have a sign problem to solve.

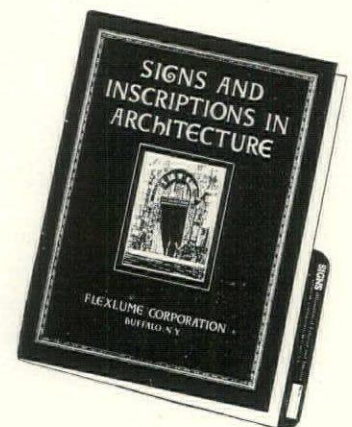


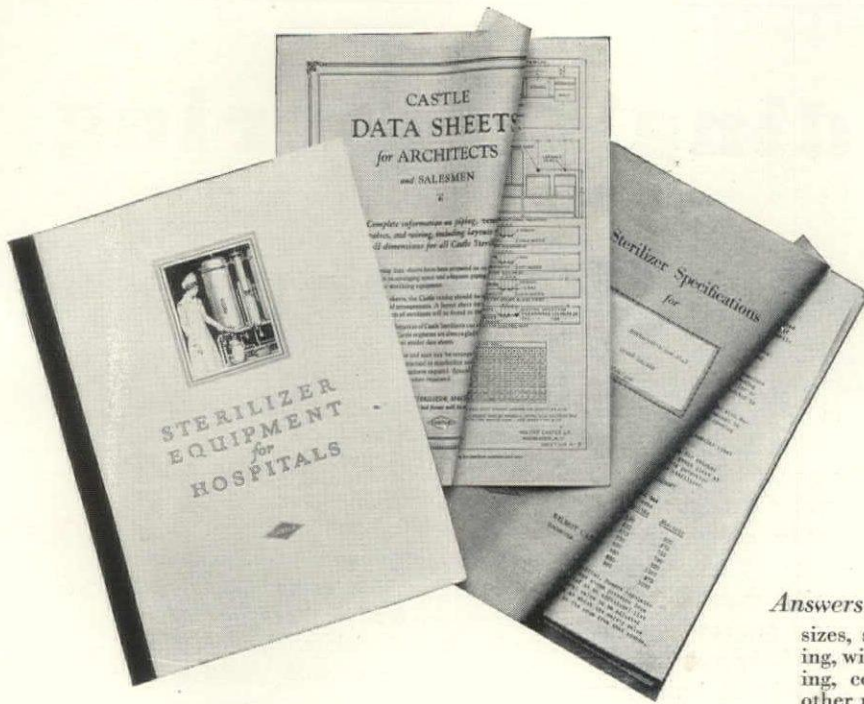
FLEXLUME CORPORATION

1420 Military Road

Buffalo, N. Y.

Flexlume Offices in All Principal Cities





Answers to questions on---
 sizes, space, layout, piping plumbing,
 wiring, venting, pressure, draining,
 condensation, and a score of
 other problems.

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A complete set of Data Sheets, Full Specifications, and the most comprehensive and detailed catalog comprise this new set.

They have been arranged by CASTLE engineers for your especial help in all hospital sterilizer installations. They answer the hundred and

one questions on piping and space requirements that heretofore have been everywhere except in your own office.

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Please send your set of Hospital Sterilizer Data to

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Mail this to Wilmot Castle Co., 1209 University Ave., Rochester, N. Y.

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CHEMICAL and engineering research in our laboratory have made Moulding's Floors not only the best for general foot traffic and hard wear, but the very floors to specify for many exacting and special requirements. These floors are all scientifically manufactured and laid in the most approved manner. Every floor is fully guaranteed by us. In thousands of buildings Moulding's Flooring is giving satisfactory service.

T-M-B Flooring

A permanent quiet flooring with a durable, rubber-like texture. It is applied over cement or wood, forming a seamless sanitary surface easy to clean. It gives distinctive beauty at a cost often less than for other floorings. Made in red, brown, green and black. Used in all kinds of buildings.

T-M-B Acid Resisting Flooring

A special compound of T-M-B flooring where protection is desired from acids, alkalis and water. In laboratories of schools, colleges and industrial plants T-M-B Acid Resisting Flooring has proved its ability to give long service under severely adverse conditions.

T-M-B Electrical Insulating Flooring

Specially compounded to serve as a flooring that guarantees perfect electrical

insulation. It is also waterproof and seamless. Extensively used by public utilities and in electrical laboratories of schools and colleges.

Dance Floor

Applied over any cement or wood surface, resulting in a smooth floor easily waxed to the desired slipperiness. Available in several colors. Unaffected by rain, snow, heat or cold. Used as outdoor dance floor in many leading amusement parks throughout the country.

Outdoor Floor

Composed of imperishable minerals that successfully defy frost, heat, rain and snow. Ideal for roof gardens, porches, roofs used for recreation, etc.

Moulstone

A permanent fireproof floor for stores, lobbies, reception rooms, toilets and offices. An ideal flooring for making new floors over old ones. In variety of colors, permitting border, panel and inlay design. Can be scored to resemble tile. Applied over cement, wood sub-floors or old wood floors.

Moultyle

A resilient tile floor of unusually durable texture. Green, red, brown and green tiles afford almost any combination desired.

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Moulding's **T-M-B** *Flooring*
FLOORING

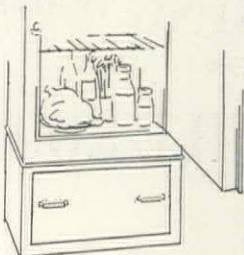
MADE, LAID AND GUARANTEED BY US—60 YEARS OF RESPONSIBILITY

*Announcing a new model
apartment size electric
refrigerator. Revolutionary
in design in service and
cost*



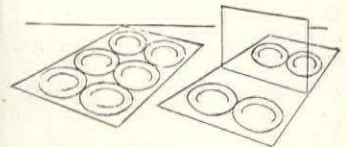
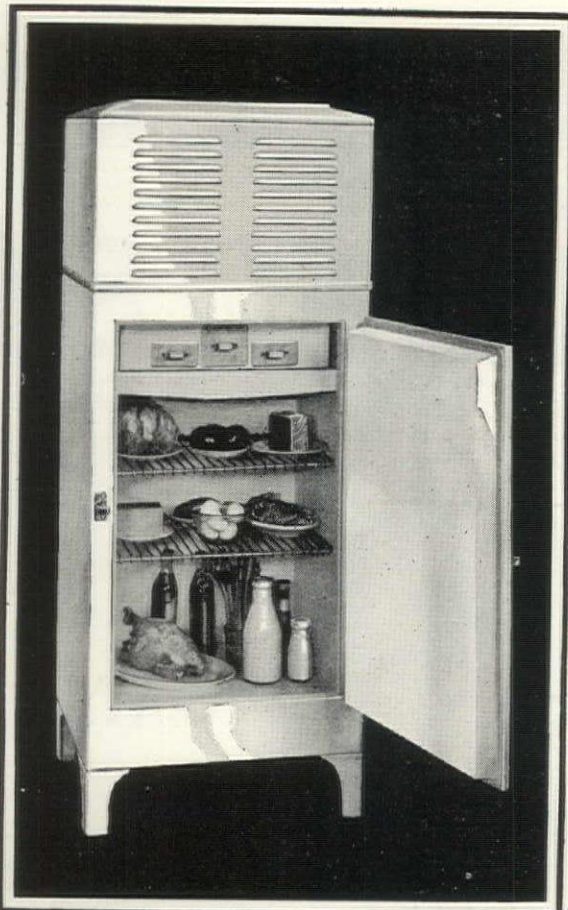
FIVE MINUTE SERVICE

Should attention be required the Copeland service man or the janitor merely lifts the unit out and substitutes a loaned unit in almost the same length of time that it takes to fill the average refrigerator with ice.



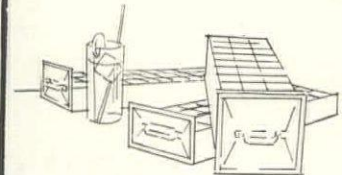
STORAGE DRAWER

The large vegetable or storage drawer is a convenient accessory. When in position, under the refrigerator, the food compartment is raised twelve inches.



MORE ROOM for DISHES

On the left, the wide, unobstructed Copeland shelf, holding six dishes. On the right, two narrow shelves of an ordinary refrigerator which, because of the partition, hold only four dishes.



MORE ICE CUBES

More ice — 108 cubes can be frozen at one time. The double depth drawer is also used for delicious frozen desserts, salads and bouillon.

COPELAND
ELECTRIC REFRIGERATION

The radically different design of the new model Copeland Electric Refrigerator, with both machine and cooling compartment forming a single removable unit at the top of the box, makes possible better refrigeration, greatly increased food space, a larger number of ice cubes, simple installation and "five-minute" service.

Measuring only 26 1/4 inches in width, 21 inches in depth and 62 1/2 inches in height, the new model Copeland requires very little floor space. Yet the commodious, unpartitioned food chamber with wide,

unobstructed shelves affords ample storage space for the average-size family.

Built of the finest sheet steel, insulated with solid corkboard and finished in white Pyroxylin, it maintains throughout, the same high standard of quality that characterizes thousands of other Copeland models giving satisfactory service in American homes today.

The retail price of the new model Copeland is lower than that of any other complete electric refrigerator. We shall be pleased to quote quantity prices and to furnish detailed specifications.

COPELAND PRODUCTS • INC...630 LYCASTE STREET • DETROIT • MICHIGAN

ACID - ALKALI - AND - FLAME - RESISTANT NON - ABSORBENT NON - CONDUCTING

For The Laboratory

IN SPECIFYING Alberene Stone for the table tops, shelving, sinks, drain boards, fume hoods, etc., the designers of the Baker Chemistry Laboratory of Cornell University (pictured to the right) chose the one pre-eminent material for laboratory use—the material used, because of its unique qualities, in 90% of the laboratories built in the past 20 years. As a matter of fact, there is no substitute for Alberene Stone as a laboratory material, whether on grounds of durability, workability or economy.

Write for the Catalog, describing the advantages of Alberene Stone for laboratory use and also for stair treads, sanitary work and electrical uses.



The Alberene Stone Laboratory Equipment here pictured in the Baker Chemistry Laboratory is in keeping with the high architectural and technical standards maintained throughout

ALBERENE STONE COMPANY
 153 WEST 23rd STREET, NEW YORK
 Baltimore Boston Buffalo Chicago Cleveland Newark
 Philadelphia Pittsburgh Richmond St. Louis

ALBERENE STONE

QUARRIED FOR OVER 40 YEARS
 THE INDESTRUCTIBLE MATERIAL FOR LABORATORY USE
 STANDARD ALSO FOR TOILET, URINAL AND SHOWER PARTITIONS, STAIR TREADS, ELECTRICAL CONSTRUCTION

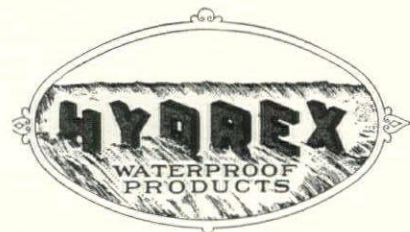
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FOR NEARLY THREE QUARTERS OF A CENTURY
 THE WORLD'S WORD
 FOR
 ELEVATOR SAFETY

OTIS ELEVATOR COMPANY
 OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD



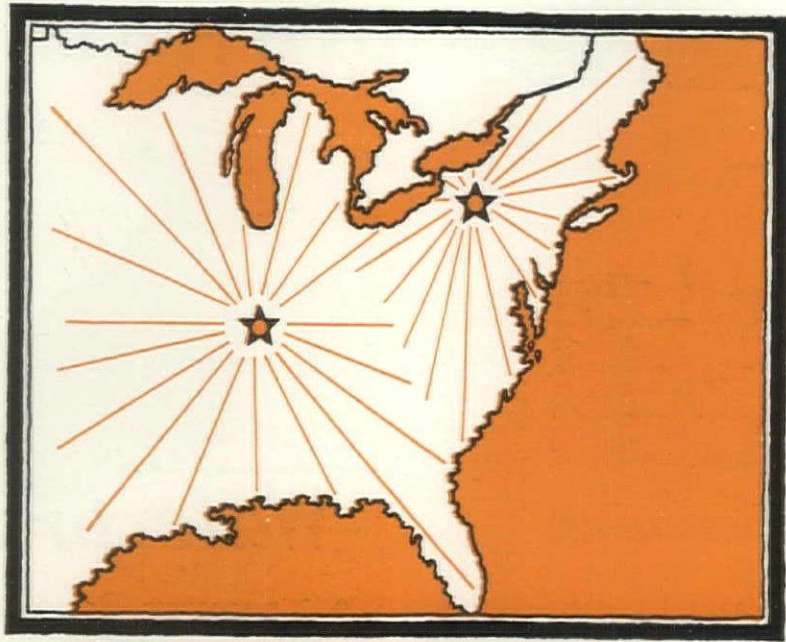
NEWEST LINING TIGHTEST
 FOR
 SLATE AND TILE ROOFS



HYDREX DOUBLE-LAYER ROOFING FELT

PROVIDES insulation and waterproofness. Consists of two sheets of coated felt and between the two felt sheets a layer of Asphaltic Compound to make the nail holes tight—especially in the valleys. Used on the highest class structures. Samples and data on request.

HYDREX ASPHALT PRODUCTS CORPORATION
 Waterproof Cloth, Canvas, Burlap, Insulating and Building Papers, Roofing, Sound-Deadening Felt, Paints, Asphalts, Etc.
 120 Liberty Street, New York

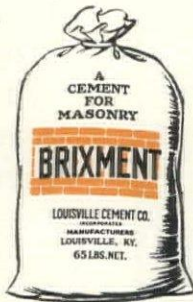


All the East can now have **BRIXMENT**

THE use of BRIXMENT has grown to such proportions that we have had to build another large-capacity mill to supply the increasing demand. This new mill, located at Brixment, N. Y. (formerly Akron Falls), now puts BRIXMENT within easy reach of every city in the east Architects in charge of operations there who know, by experience, the architectural, structural and economic advantages of BRIXMENT will appreciate the importance of this announcement To those who are not yet acquainted with BRIXMENT we shall be glad to send a copy of our architect's handbook (8½ x 11 inches with filing tab) containing specifications, data and tests and telling how BRIXMENT insures masonry of unusual strength, permanence, beauty and economy.

Advantages of BRIXMENT

BRIXMENT is a mason's cement of a uniform strength equal to that of the brick it binds Spreads fast, smooth and buttery and insures better, more accurate joints in less time and at less cost Repels moisture. Does not fade mortar colors No lime. No slaking. Can be used as soon as mixed Its approval by prominent and exacting architects is evidence that BRIXMENT is filling the need of an improved, economical mortar material. LOUISVILLE CEMENT CO., Incorporated, General Offices, Louisville, Ky.



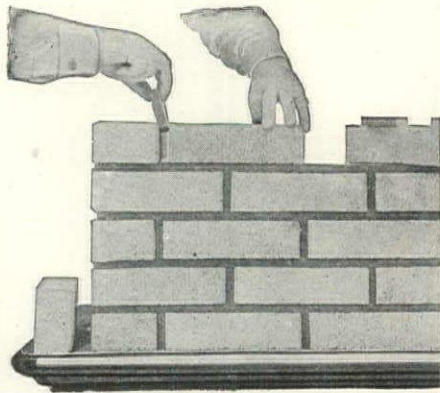
Some BRIXMENT Buildings

New York Times Annex, New York City. Ludlow & Peabody, Architects; George A. Fuller Company, General Contractors.
 United States Railway Terminal Post Office, Chicago. Graham, Anderson, Probst & White, Architects; R. C. Wieboldt Co., Contractors.
 Biltmore Hotel, Miami. Schultze & Weaver, Architects; Thompson-Starret Co., General Contractors.
 Gates Circle Apartments, Buffalo. H. L. Stevens Co., Architects and Contractors.

Cement Manufacturers for Nearly a Century

BRIXMENT *for Perfect Mortar*

Natures Permanent Mineral Colors



Test Your Brickwork Color Schemes !

Made Since 1887

You first imagine the effect brick of a certain color and texture will produce when laid with mortar. The Clinton Mortar Color Experimentor will permit you to test this color scheme by laying up a panel in a few seconds. The color of the mortar joints may be easily changed to permit the study of other effects.

Leading architects all over America are using this ingenious device. Scores of them have written commending its utility.

We will gladly ship a Mortar Color Experimentor to any architect free upon request. Write for it today.

Clinton Metallic Paint Co.
40 CLINTON ROAD
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Made Since 1887

Clinton Mortar Colors

CLINTON METALLIC

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BIRD'S NEPONSET BLACK BUILDING PAPER



Waterproof!

NEPONSET BLACK is a tough, heavy Waterproof Building Paper that keeps out dampness and drafts. Its glistening, asphalt-coated surface sheds water like a duck's back.

For a permanent barrier against the elements, specify Bird's Neponset Black. Over roof boards and under slate, tile, metal or asphalt shingles it makes a watertight covering. When placed back of stucco and under clapboards or shingles it keeps out drafts and dampness and makes the heating of the house more economical.

Your contractor or builder can get Neponset Black at a moment's notice. It is standard stock with dealers in Bird's Building Products. Refer to Sweet's or write to us for complete specifications.

BIRD & SON, inc.

Established 1795

EAST WALPOLE, MASS.

Chicago Office and Plant:
1472 West 76 Street

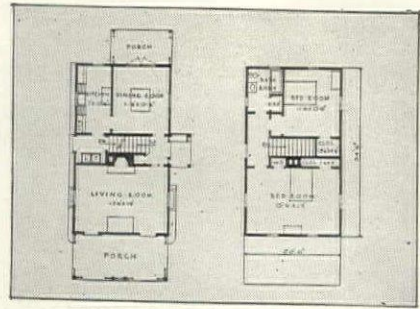
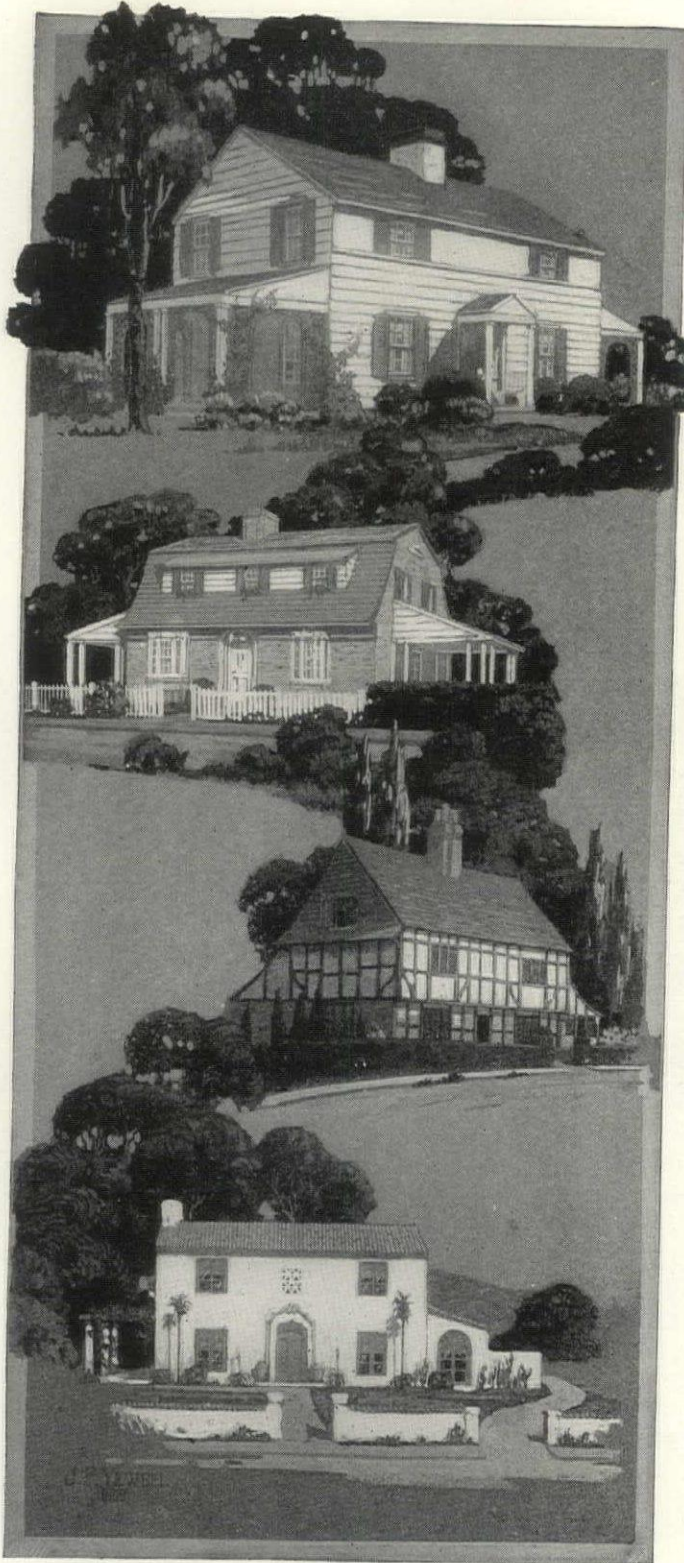
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These Model Homes built and equipped with—

- Blue Star Installation Domestic Gas Appliances**
AMERICAN GAS ASSOCIATION
- Anaconda Brass Pipe and Bronze Screen Wire**
THE AMERICAN BRASS COMPANY
- Corto Radiators—Ideal Arco Boiler—Arco Hot Water Tank**
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Every Architect should have
this manual on file:

It contains 48 pages of perspectives and floor plans of these model homes and other helpful advice to home builders on how to make the home a model in every way. It is free on request to every registered Architect. Simply fill in the coupon below.



HOME OWNERS' SERVICE INSTITUTE, INC.
441 Lexington Ave., New York City
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Please send me, without cost or obligation—
"A MANUAL OF HOME BUILDING."

Name _____

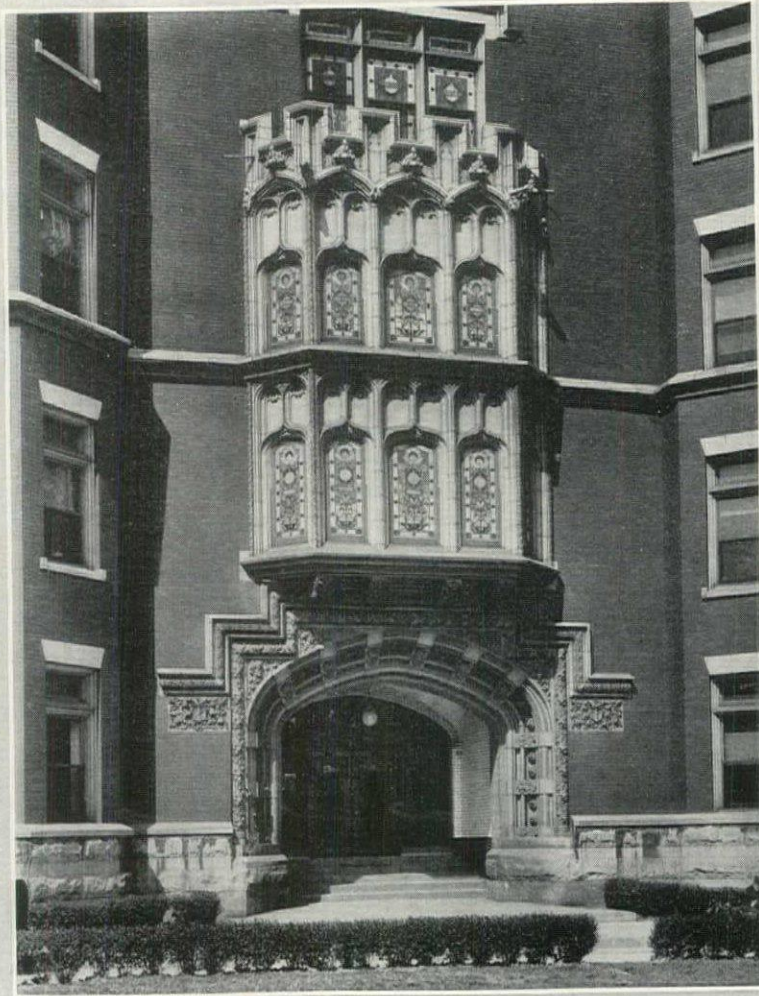
Address _____

A nation-wide movement for better homes

In the July issue we illustrated the first of the model homes being built with the co-operation of these leading building and equipment manufacturers under our supervision. Additional homes are shown above; each has been designed by a registered Architect.

A total of thirty-six of these model homes will be demonstrated to the public in approximately twenty-eight cities this year, thus educating the home-seeker toward better architectural planning and better building as well as fostering an appreciation of the permanent investment value of good equipment.

Under the supervision of
HOME OWNERS' SERVICE INSTITUTE · INC.
L. PORTER MOORE, President



Entrance, St. Ann's Asylum, St. Louis, Mo.,
Barnett, Haynes & Barnett, Architects. Entrance
and window trim of unglazed buff Terra Cotta.

TERRA COTTA

For Effective Entrances

*F*OR institutional buildings whose funds do not admit costly architectural treatment, Terra Cotta will provide handsome enrichment at a moderate expense.

The Terra Cotta entrance and surmounting bay windows of the building

shown above illustrate the possibility of effectively dignifying institutional buildings in this way.

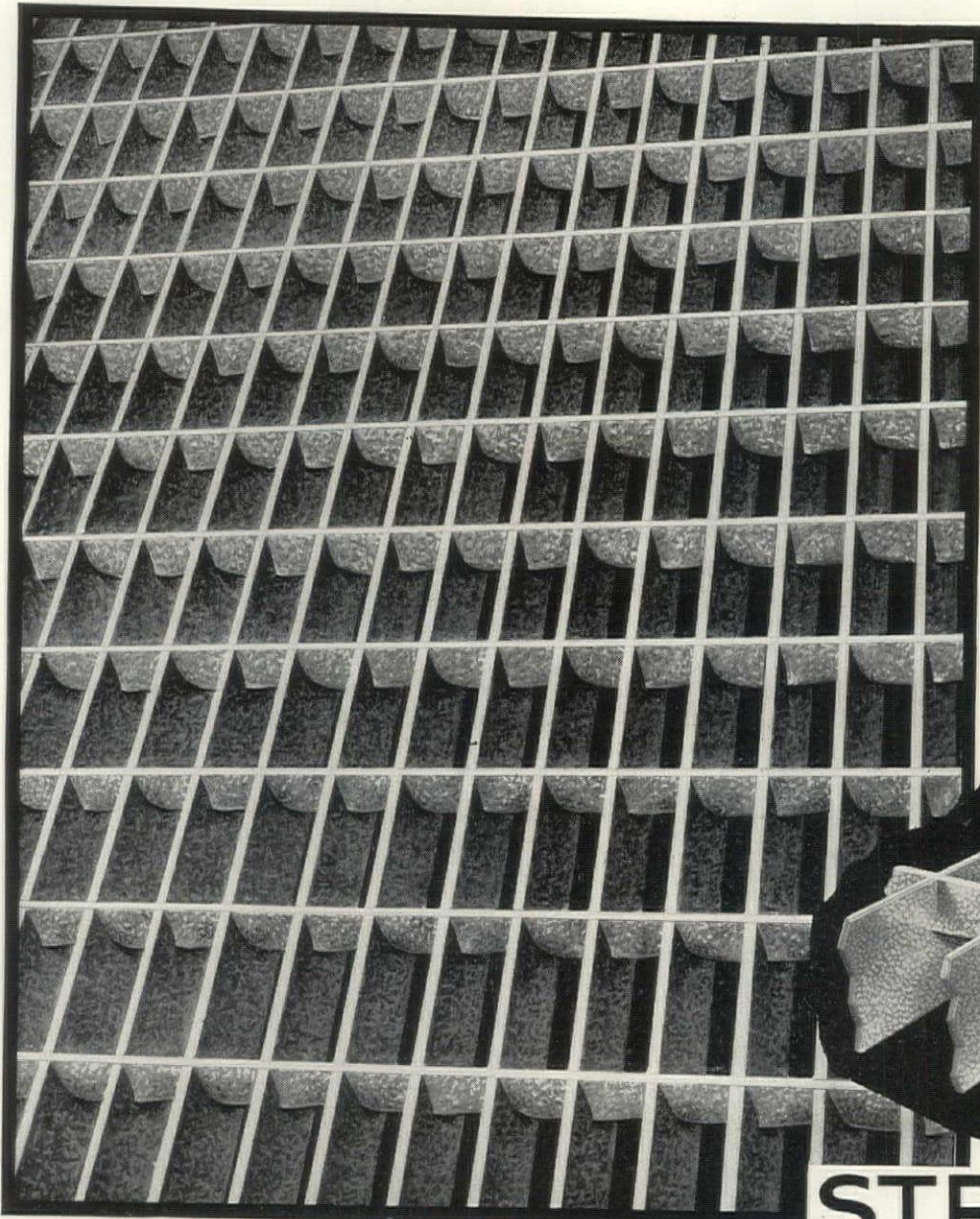
Beautiful motifs will be found in our volume "Terra Cotta of the Italian Renaissance" containing 200 plates, \$3.00 per copy.

NATIONAL TERRA COTTA SOCIETY

19 West 44th Street

New York, N. Y.

GRATING AND TREAD



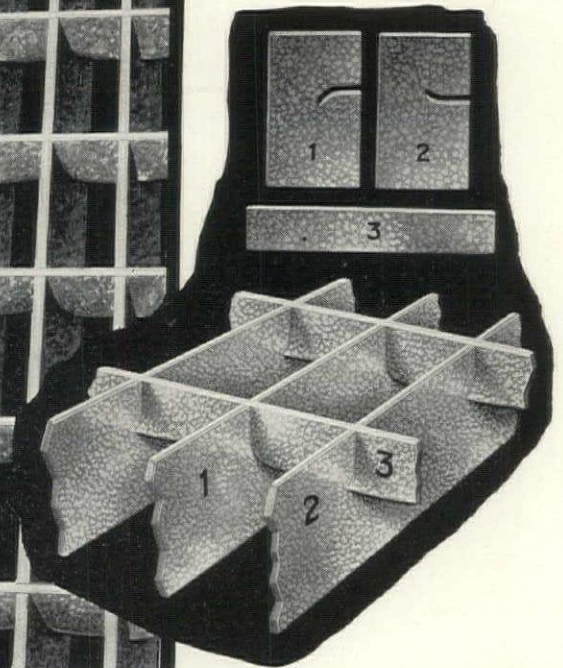
What a difference *three locks* make!

First, there is a right-twist lock in every other bar.

Second, there is a left-twist lock in alternate bars.

Third, there is the 1600-ton hydraulic pressure-lock, which is affected by *pressing* the cross bars into the two twist-locks.

Neither time nor wear can open the three locks of TRI-LOK.



STRENGTH

Take STRENGTH, For Instance.

The main bars are not cut, punched, or otherwise deformed *below the neutral axis*, and therefore can resist up to the yield point for the full cross-section of the bars. The curved slots in the upper part of the main bars are filled solidly by the cross bars; hence, the compressive resistance of the main or load-carrying members is not altered or changed in any manner.

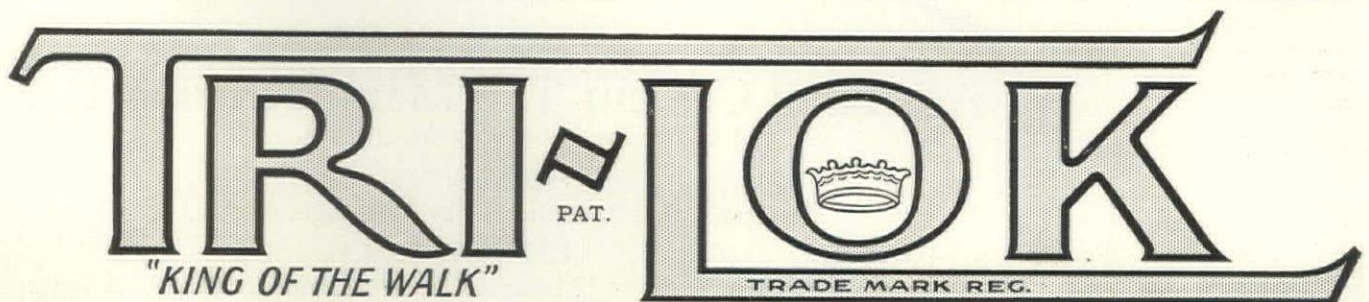
The cross bars reduce the deflection of the grating to a minimum. Tests in Columbia University, University of Pennsylvania, and

Pittsburgh Testing Laboratory have proven that the joints of Tri-Lok are not affected in any way even after the yield point. Hence the joints are stronger than the steel itself.

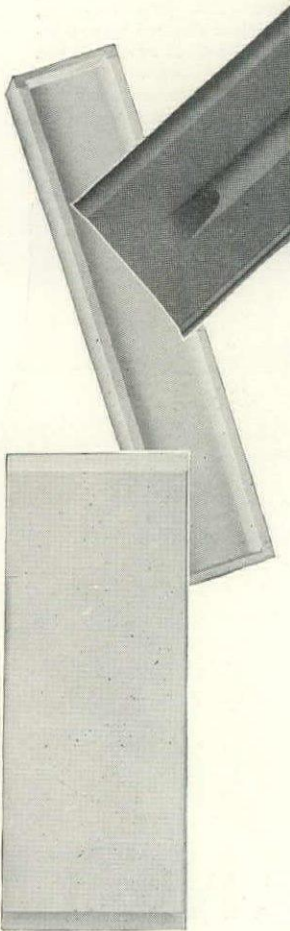
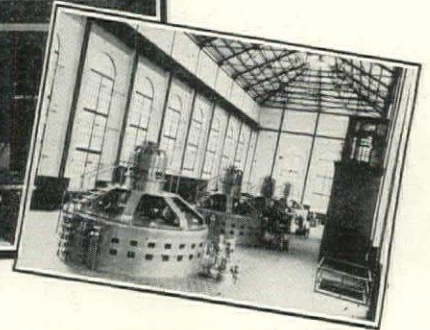
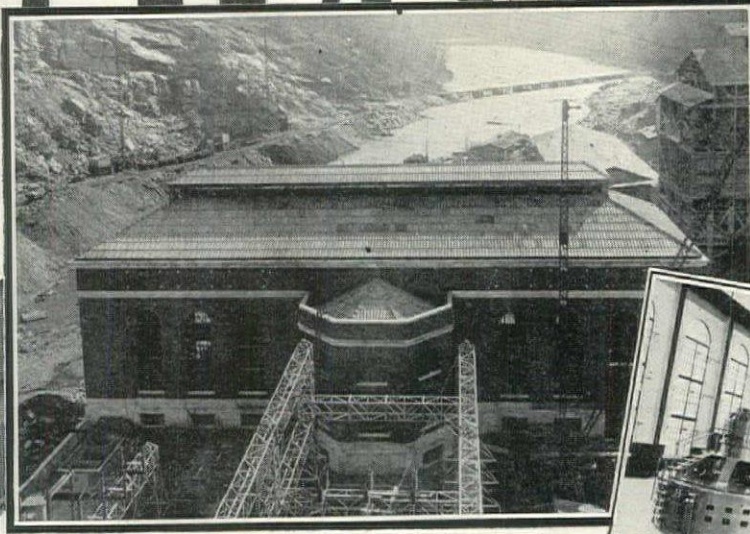
Can you say so much for the grating you have been using? Certainly not, because never has there been another grating such as Tri-Lok.

Write for our Bulletin which tells the complete story of Tri-Lok's greater *economy, durability, and strength.*

THE TRI-LOK COMPANY • 5517 BUTLER STREET • PITTSBURGH, PENNA



CEMENTILE



CEMENTILE On Your Building Takes Roofing Off Your Mind

YOU can forget about your roof after Cementile is laid on the purlins. An assuring situation, especially when your building houses valuable equipment or machinery, which demands Absolute Protection.

The Power House pictured above—Georgia Railway and Power Co., Tugalo, Georgia—containing important electrical equipment, the value of which runs into seven figures—is roofed with Interlocking Red Cementile. Because of previous satisfactory roof service over a period of 12 years on their Tallulah Falls Power House, this company again chose a Cementile roof, fire-proof, weather-proof, free from maintenance, permanent; the most economical roof from any point of view.

“Bonanza” Cementile is proving its efficiency and permanency on hundreds of Industrial Buildings—mills, factories, etc.—and on garages, piers, schools, theatres, banks, etc.

“CEMENTILE” comes in three types: Red Interlocking for pitched roofs; Flat and Channel for flat or pitched roofs where it is desired to waterproof with a composition covering.
“CEMENTILE” is laid directly on the roof purlins.

Send the coupon for Important Roofing Data

American Cement Tile Mfg. Co.
801 Oliver Bldg., Pittsburgh, Pa.

Please send me “Cementile” Literature containing Industrial Roofing Engineering Data:

Name

Company

Street

City

State

American Cement Tile Manufacturing Co.
801 Oliver Building, Pittsburgh, Pa.

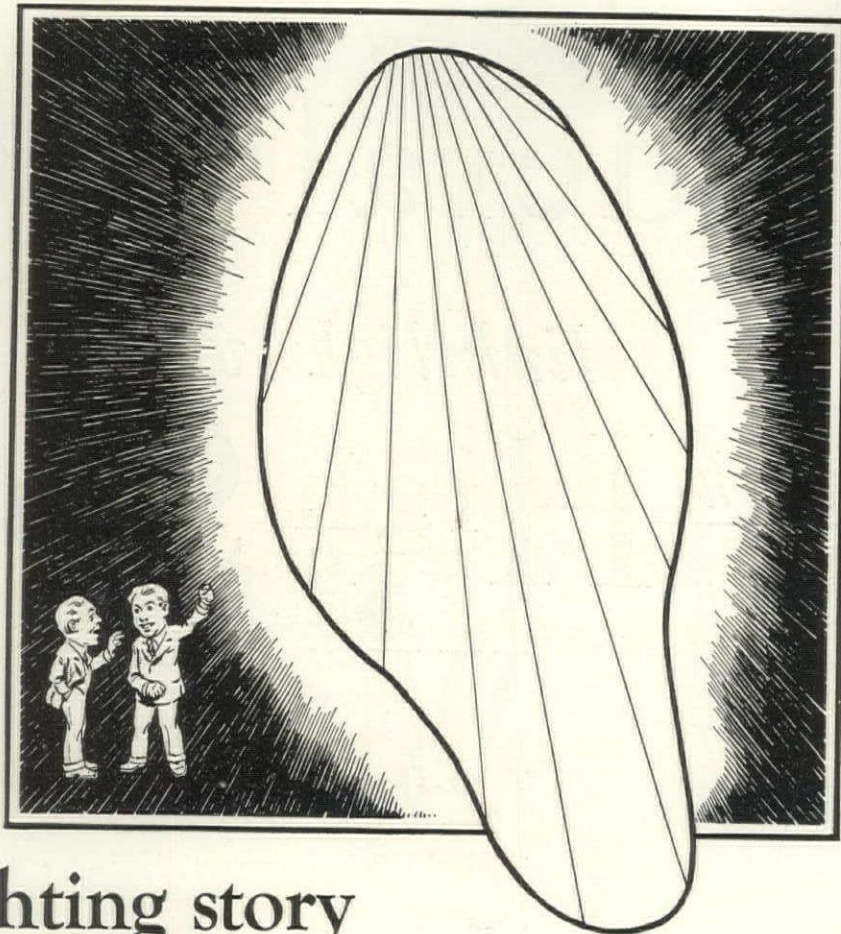
PLANTS:

Wampum, Pa., Lincoln, N. J., Birmingham, Ala.

OFFICES:

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A distribution curve like this is no joke to the man working in misapplied light. The Graybar Electric Lighting Manual shows you how to correct such lighting conditions.



A lighting story with too much point

SAVE in rare instances, this light distribution curve tells a story painful to the eyes,—a story of concentrated glare from a wrongly selected lighting unit. And industry, aroused to the economic danger in poorly selected fixtures, is demanding authoritative information on lighting.

The architect is particularly well situated to give this information—and the Graybar Electric Lighting Manual to give it to him. For here is shown, in concise form, complete installation data for every type of business, industrial and home lighting. Fixtures for proper light distribution are shown—and the Graybar distributing house nearby has those fixtures in stock.

The Graybar quality tag—under which 60,000 electrical supplies are shipped.



Graybar

ELECTRICAL SUPPLIES

Successor to *Western Electric* Supply Dept.

Offices in 58 Principal Cities. Executive Offices: 100 East 42nd Street, New York

Federal Roofs

link light weight
with High Strength

WHEN you roof with Federal Cement Tile, you effect substantial savings on the steel super-structure or frame.

That is due to Federal Tile's light weight.

Because these pre-cast slabs are quality controlled, accurately reinforced with wire mesh, and thoroughly cured under uniform temperature conditions, they link this light weight with high strength.

And you are sure of the same permanent freedom from repairs that Federal Roofs have been providing on industrial and public buildings of every type for a quarter of a century.

Made of concrete, these roofs are fire-proof and rust-proof. They are also freeze-proof and sun-proof. They are unaffected by gases, by smoke, or by acid fumes.

Let us tell you the full story of Federal Roofs, and of the engineering and erection service that goes with them. Your request will be given prompt, courteous attention without placing you under any obligation.

Federal Interlocking Tile for pitched surfaces have a non-fugitive, red color and require no painting. When used with Federal Glass Insert Tile for top-lighting an ideal "daylight roof" is obtained. Other styles include Flat and Channel Slabs for roof decks

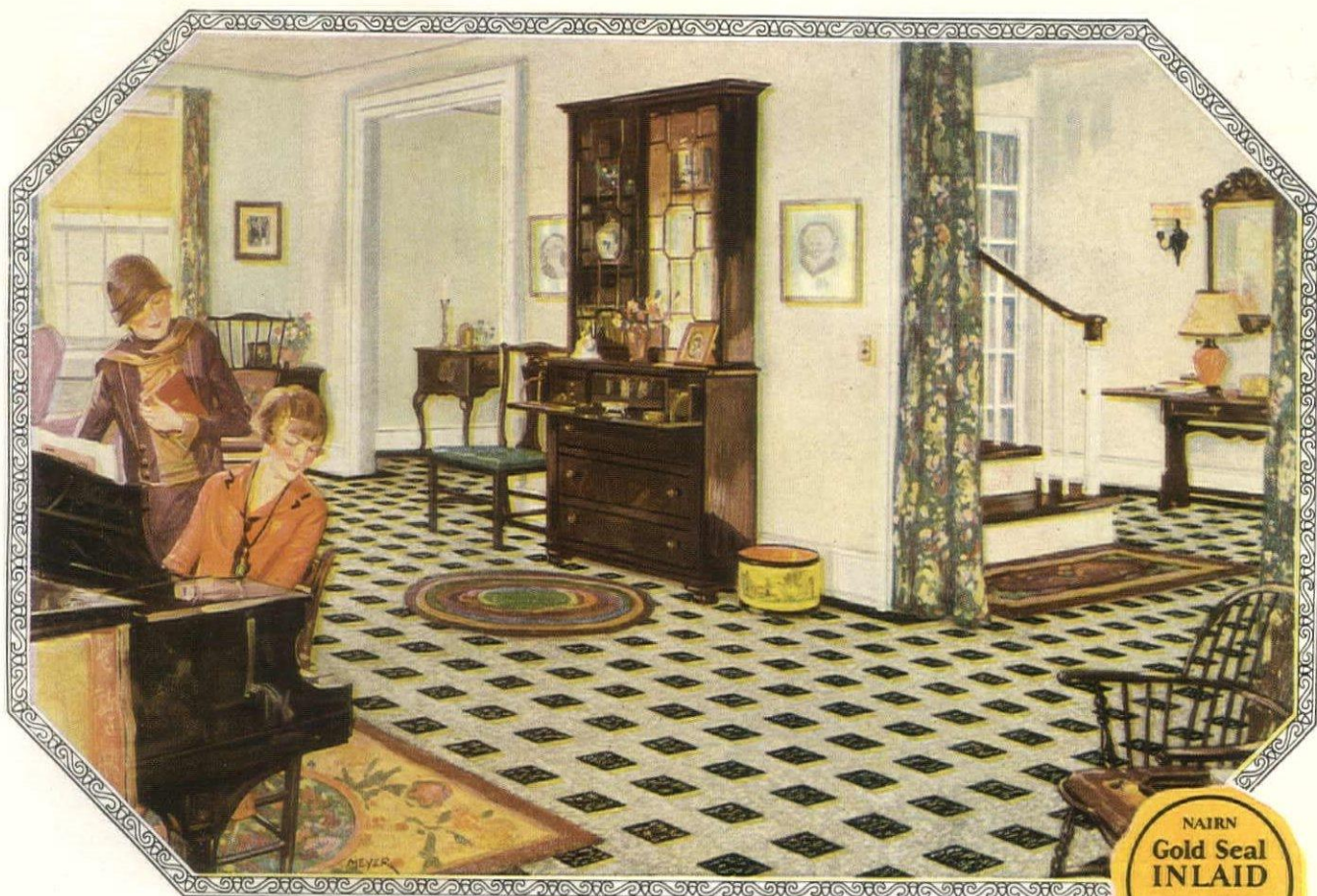
Made, Laid and Guaranteed by the

FEDERAL CEMENT TILE COMPANY

608 South Dearborn Street, Chicago, Illinois

FEDERAL
 CEMENT TILE ROOFS

"For Every Type of Permanent Building"



Spaciousness with unity and homelike charm are secured in these connecting rooms by the use of GOLD SEAL INLAID, Belflor Inset Tile Pattern No. 2152/3



Floors that play an important part in securing decorative unity

Where wide doorways permit an unobstructed vista from room to room, the floor area may be made the connecting decorative link.

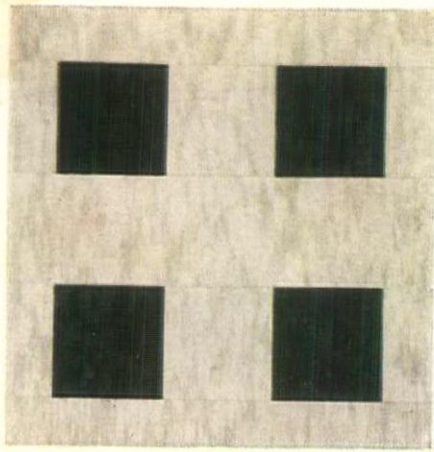
In the interior above, a *Belflor Inset Tile* pattern with grey field and tiles of mottled green and black provides the unifying note. A border of solid black gives the finishing touch and serves to frame the three rooms in one delightfully harmonious picture.

Not only does this floor "tie together" entrance hall, living room and dining room but it is a decorative asset in each room. Nairn GOLD SEAL INLAIDS form a handsome background for furnishings in any type of interior. And in the wide variety of patterns there are many appropriate designs for the modest home as well as for the mansion.

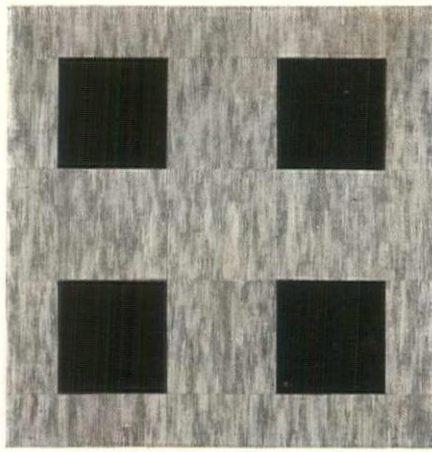
GOLD SEAL INLAIDS have practical advantages that recommend them to architects and home-owners. They can be installed over old as well as over new floors at a moderate cost. They never need expensive refinishing and they can be kept immaculate with minimum care. Their steadfast durability is assured by the Gold Seal guarantee and the name Nairn, which is synonymous with quality.

(See next page)

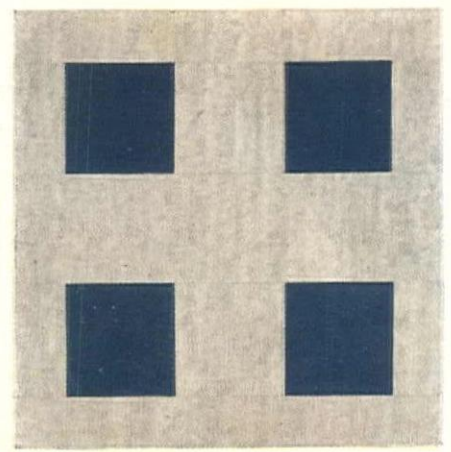
NAIRN
GOLD SEAL INLAIDS



GOLD SEAL INLAID
Belflor 4½" Inset Tile Pattern No. 2152/3



GOLD SEAL INLAID
Belflor 4½" Inset Tile Pattern No. 2152/1



GOLD SEAL INLAID
Belflor 4½" Inset Tile Pattern No. 2152/2

THE *Belflor Inset Tile* patterns of Nairn GOLD SEAL INLAIDS provide resources for giving character and distinction to almost any interior. Home-owners quickly see the artistic possibilities and practical qualities of these permanent floors.

The widespread use of *Belflor Inset Tiles* in living rooms, halls, dining rooms and sun parlors is silent, but convincing testimony that the manifold advantages of inlaid linoleum are no longer confined to the service rooms of the house.

Period furniture which is so much the vogue today lives most amicably in a room with a *Belflor Inset Tile* floor. Colonial and modern furniture, too, fit in with the colorful designs. The decorative value of *Belflor Inset*

Tile Pattern No. 2152/3 (shown above) is illustrated on the reverse of this page.

In durability, finish and flexibility, *Belflor Inset Tiles* set a high standard. Every tile is cut and set with mathematical precision, which insures that lengths can be laid side by side with certainty of a perfect match. Two sizes of tiles are available—4½ inches and 6 inches square. Thus the proportions of the pattern in the floor can harmonize with those of the room.

We will be glad to send you "life size" reproductions of any GOLD SEAL INLAID pattern as well as samples of the actual goods.

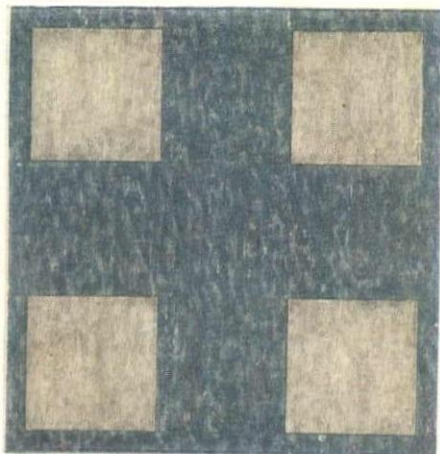
CONGOLEUM-NAIRN INC.

Philadelphia New York Boston Chicago Kansas City
 Atlanta Minneapolis Cleveland Dallas Pittsburgh
 San Francisco New Orleans

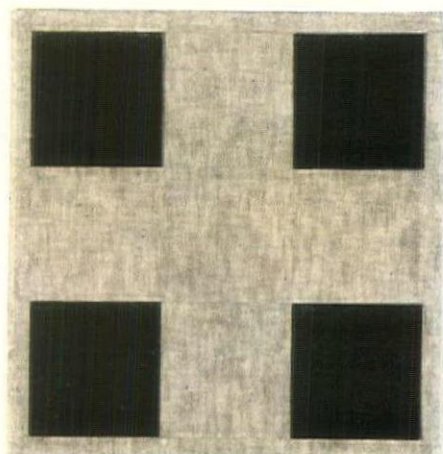
(See preceding page)

NAIRN GOLD SEAL INLAIDS

GOLD SEAL INLAID
Belflor 6" Inset Tile Pattern No. 2155/1

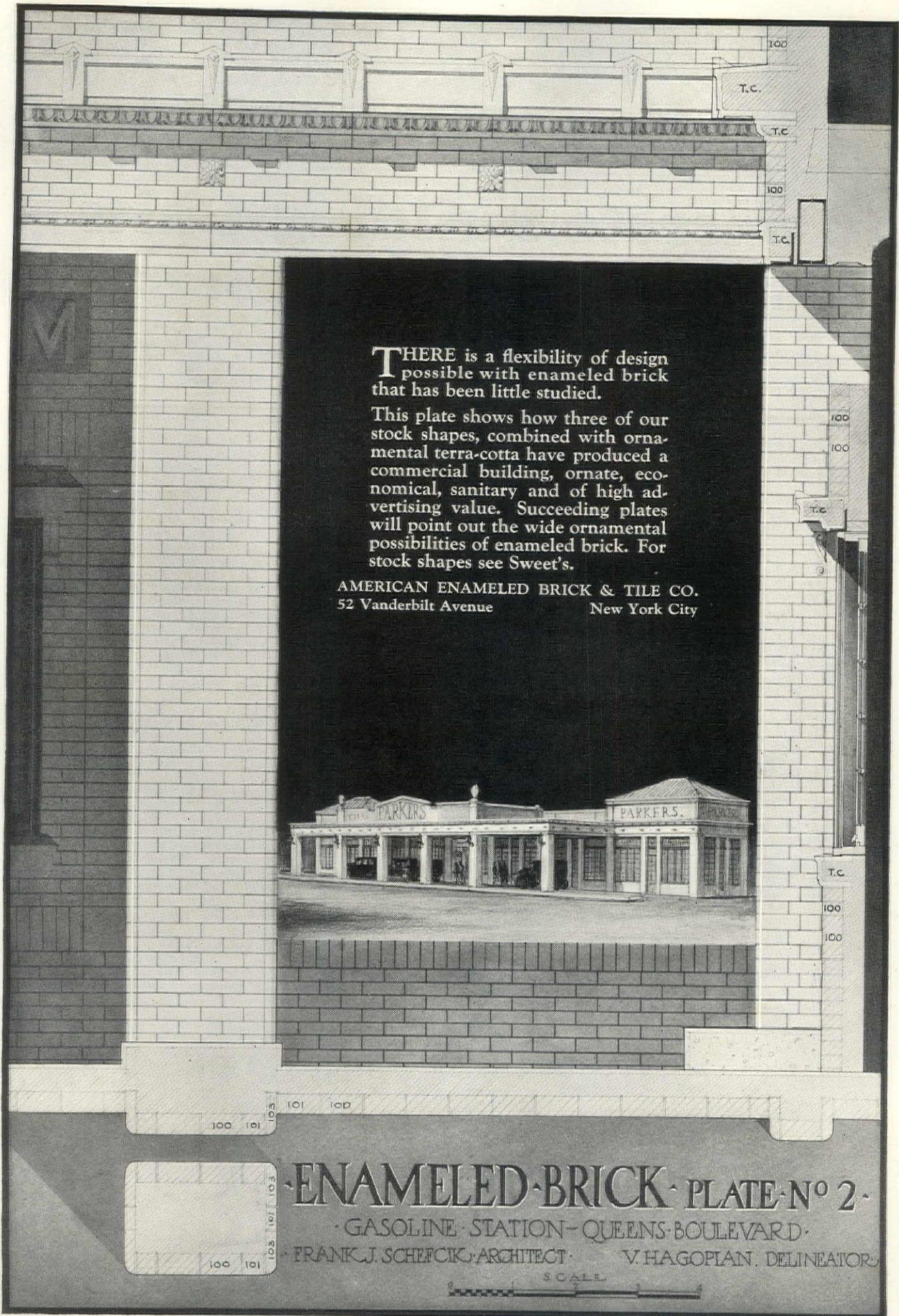


GOLD SEAL INLAID
Belflor 6" Inset Tile Pattern No. 2155/4



GOLD SEAL INLAID
Belflor 6" Inset Tile Pattern No. 2155/3

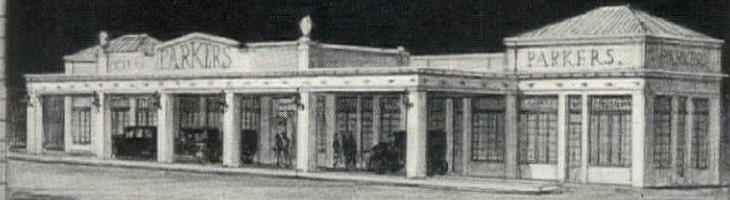




THERE is a flexibility of design possible with enameled brick that has been little studied.

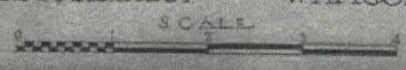
This plate shows how three of our stock shapes, combined with ornamental terra-cotta have produced a commercial building, ornate, economical, sanitary and of high advertising value. Succeeding plates will point out the wide ornamental possibilities of enameled brick. For stock shapes see Sweet's.

AMERICAN ENAMELED BRICK & TILE CO.
52 Vanderbilt Avenue New York City



ENAMELED BRICK PLATE N° 2

GASOLINE STATION - QUEENS BOULEVARD
FRANK J. SCHEFCIK ARCHITECT · V. HAGOPLAN, DELINEATOR



Copies of these plates in folio will be mailed upon request.

*Fire takes 15,000
lives yearly*

Concrete Building Units Establish New Masonry Standards

Once the masonry home was considered beyond the means of the average purse. That is no longer true.

Concrete building units have introduced new economies in masonry construction. Everywhere today you see homes being built with concrete tile or concrete block. These express fully the inbuilt value always recognized as characteristic of masonry.

Concrete building units assure you a home of enduring strength, firesafeness and economy.

With portland cement stucco exterior finish in any one of a wide variety of colors and textures, the beauty of any admired type of architecture is easily secured.

Ask for your free copy of "A Book of Beautiful Homes"

PORTLAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

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Birmingham
Boston
Chicago
Columbus
Dallas

Denver
Des Moines
Detroit
Indianapolis
Jacksonville
Kansas City

Lincoln, Nebr.
Los Angeles
Milwaukee
Minneapolis
Nashville
New Orleans
New York

Oklahoma City
Parkersburg
Philadelphia
Pittsburgh
Portland, Oreg.
Richmond, Va.

Salt Lake City
San Francisco
Seattle
St. Louis
Vancouver, B. C.
Washington, D. C.



Bringing Rust into the House

THIS illustration is used in one of a series of advertisements appearing in magazines of national circulation to impress upon home builders the waste entailed through the use of corrodible metal where Copper, Brass and Bronze serve more economically.

The reader is reminded that if iron and steel are used, rust is, in effect, being brought into his new house; but that if

pure Copper, Brass, and Bronze are used, the house will be rust-proof inside and out, and periodic painting, repairs, and replacements will be entirely unnecessary.

A collateral purpose of this advertising is to help bring into the small house field the appreciation of sound, permanent building materials which the architectural profession has established so generally for more pretentious buildings.

THE AMERICAN BRASS COMPANY

GENERAL OFFICES: WATERBURY, CONNECTICUT

Offices and Agencies in Principal Cities

Canadian Mill: ANACONDA AMERICAN BRASS LIMITED, New Toronto, Ontario

ANACONDA COPPER

BRASS ANACONDA BRONZE



For the Old Remodeling Job

*Caen Stone Cement
is a Life Saver*

WHEN an old client wants you to revive one of his old "vintage of '98 office buildings" so that he may realize some income on the property instead of holding it at a loss, do not despair.

In addition to the obvious heating, plumbing and elevator changes, give him a Caen Stone Entrance Foyer made from Imported French Caen Stone Cement. Because,—if the entrance is archaic, few tenants will have any inclination to inspect the space above offered for rent.

*We are the sole Importers of
French Caen Stone Cement*

PALMER LIME & CEMENT COMPANY

103 Park Avenue
NEW YORK, N. Y.

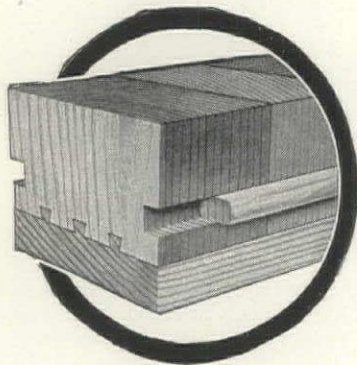
A Statement

THE block floor in Carnegie Institute Gymnasium is not Bloxonend. This statement seems necessary because of erroneous statements coming from the Institute.

Bloxonend is not loose blocks but is a perfectly matched wood flooring strip, composite in its structure—the upper surface with the ends of the fibers meeting the wear.

Bloxonend is exceptionally durable, safe, resilient, non-sliver and non-slip. It stays smooth always.

Prominent architects who specify Bloxonend for Gymnasiums include:



These 8 ft. sections make a tight, smooth floor—no loose blocks.

- Archer & Allen.....Baltimore, Md.
- W. E. Bort.....Clinton, Iowa
- W. J. Brown.....Cedar Rapids, Iowa
- Burrowes & Eurich.....Detroit, Mich.
- Donn Barber Associates.....New York City
- Caldwell, Beckwith & Walker.....Bridgeport, Conn.
- G. Howard Chamberlin.....Yonkers, N. Y.
- J. B. DeReimer.....Grand Forks, N. D.
- A. L. Delehanty.....Albany, N. Y.
- E. S. Gordon.....Rochester, N. Y.
- Howell & Thomas.....Cleveland, Ohio
- T. V. Huggett.....Solon, Ohio
- A. L. Harris.....Washington, D. C.
- Wm. B. Ittner.....St. Louis, Mo.
- Kidd & Kidd.....Buffalo, N. Y.
- Lafferty, Buckler & Fenhagen.....Baltimore, Md.
- H. M. Macklin.....Winston Salem, N. C.
- W. H. Nicklas.....Cleveland, Ohio
- Nicklas & Roderick.....Cleveland, Ohio
- H. G. Perring (Engr.).....Baltimore, Md.
- Edward W. Palmer.....Baltimore, Md.
- Carlton Strong.....Pittsburgh, Pa.
- Starrett & Van Vleck.....New York City
- Shattuck & Layer.....Chicago, Ill.
- Chas. A. Smith.....Kansas City, Mo.
- O. M. Topp.....Pittsburgh, Pa.
- Van Leyen, Schilling & Keough.....Detroit, Mich.
- Lucius K. White, Jr.....Baltimore, Md.
- Wyatt & Notling.....Baltimore, Md.

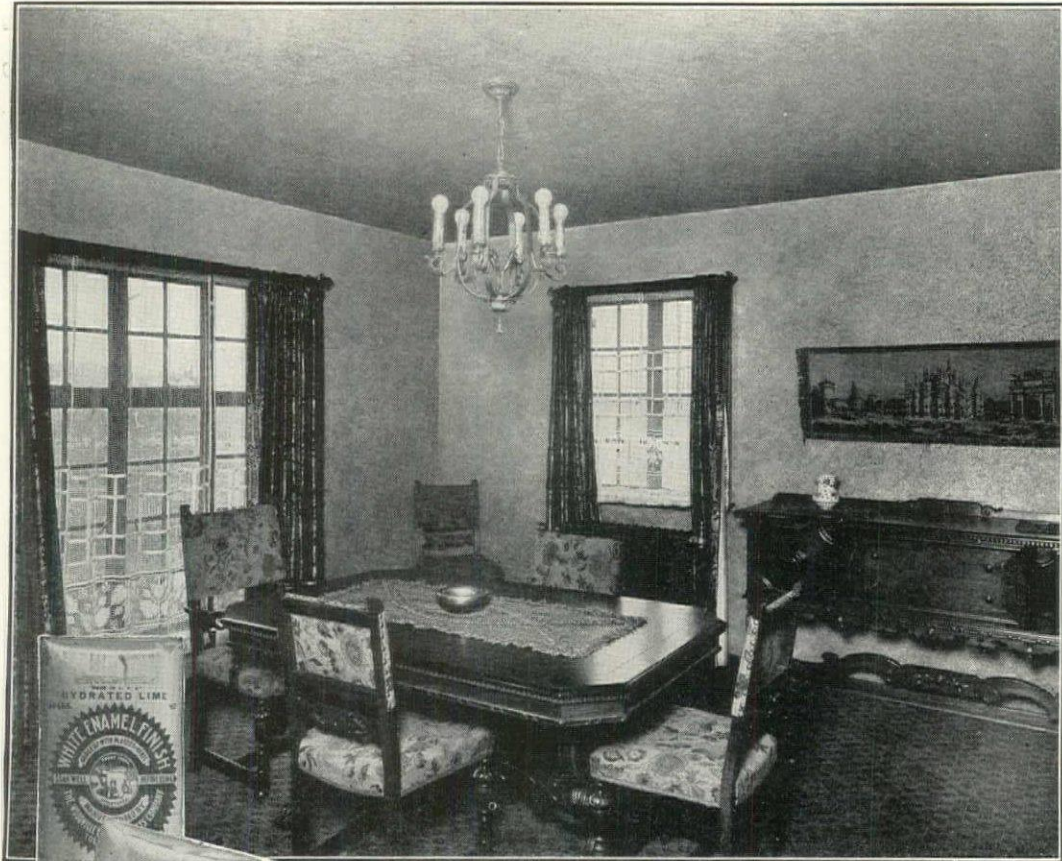
Architectural Specification gladly furnished on request

CARTER BLOXONEND FLOORING COMPANY
KANSAS CITY, MISSOURI

Branch Offices in Principal Cities—See Sweet's

BLOXONEND
Lays Smooth **FLOORING** *Stays Smooth*





*"Quality from
stone to finish"*

A Plea for the Decorator

Painted and tinted walls are now enjoying a wave of popularity. The decorator is adding a touch of charm and elegance to all types of buildings in every section of the country.

And he is having his troubles. Many a wonderful vision of artistic beauty, and many a scheme of delightful color blending have been utterly ruined by chemical reaction from the plastic materials used in the walls.

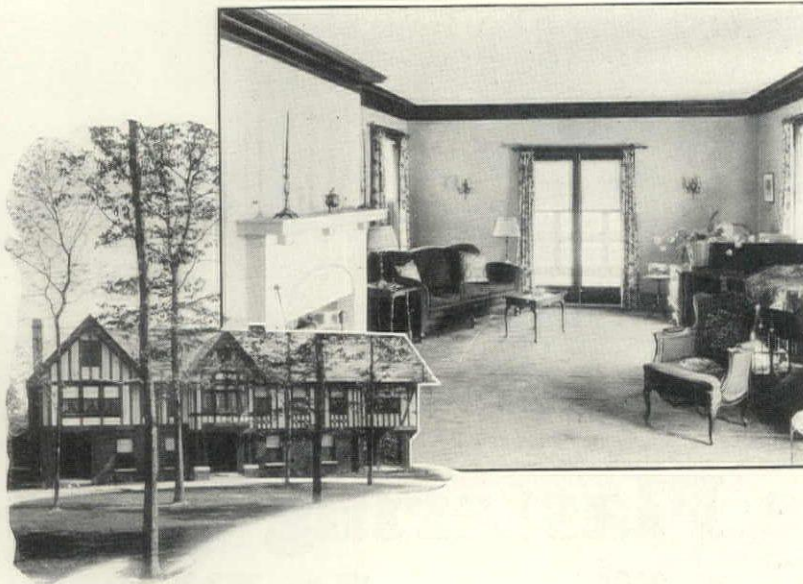
There's a lot of satisfaction in knowing that decorative results will be exactly as planned and specified. Our brands of Finishing Hydrated Lime insure this satisfaction.

There is a building supply dealer in your vicinity who handles one of our brands of pure, snow-white, Finishing Hydrated Lime.

THE WOODVILLE LIME PRODUCTS COMPANY
TOLEDO, OHIO

**WHITE ENAMEL ~ GOLD MEDAL
AND WHITE LILY
FINISHING ~ HYDRATED ~ LIME**

for WALLS



Residence of F. B. Hitchcock in one of Chicago's Lake Shore suburbs. Architect, R. E. Crosby

Harmonizing with the general interior motif and subtly emphasizing interesting effects is the plastering which was done with Beaver American Plaster

The American Privilege

As a nation, the United States is always an interesting and perplexing study to the visitor from other shores. Our residence architecture, for example.

We build our homes to accord with our personal tastes. There is no slavish adherence to a single, monotonous, national pattern. Our cosmopolitan origin accords us the privilege—which we freely take—of adapting the best types of all countries.

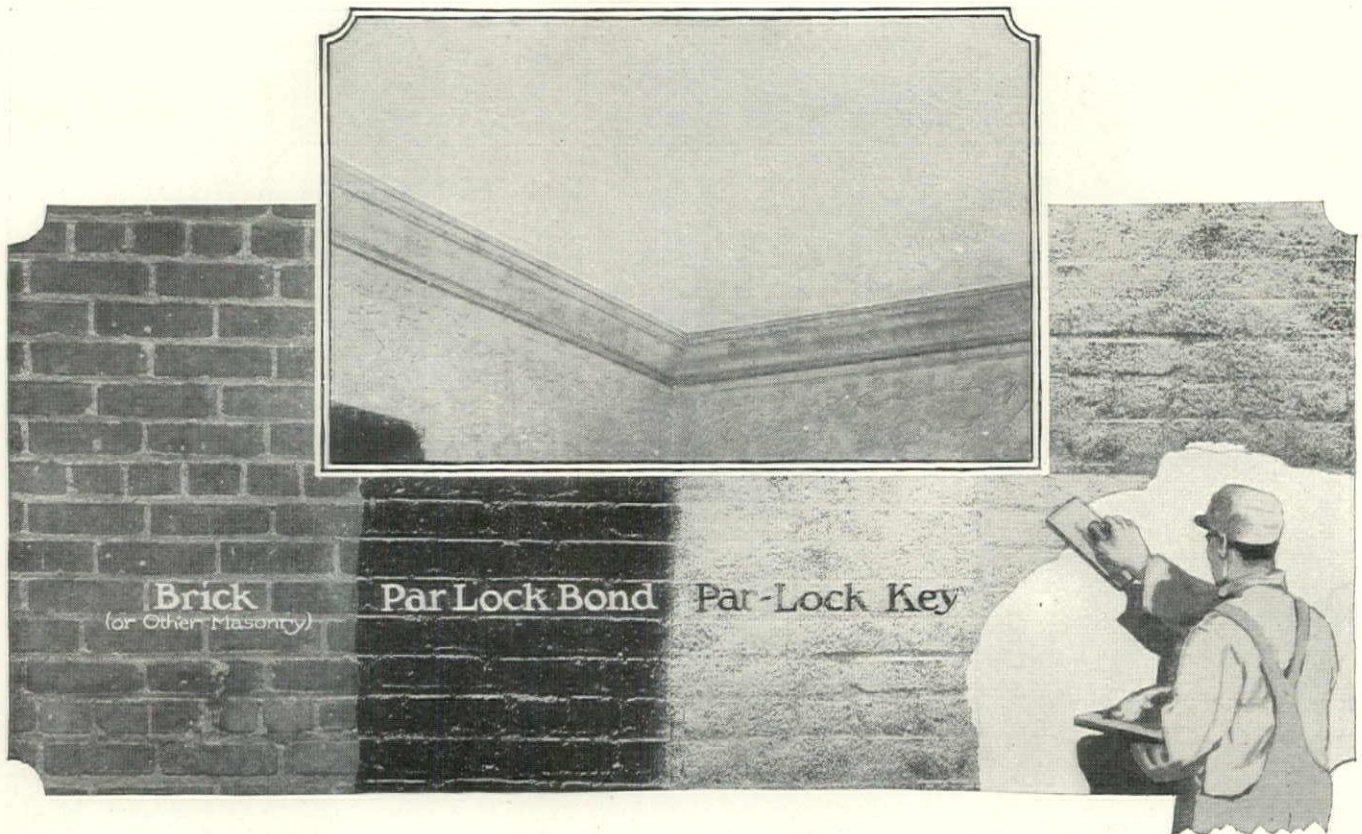
This American tendency toward individuality of home design is in-

creasing; and, as a result, new architectural importance is being attached to the interior effects that can be obtained by the judicious utilization of plastering.

It is interesting, in this connection, to note that the makers of Beaver American Plasters, conscious that good plastering must start at the very source, go to great lengths to produce plaster of real dependability. The reason, no doubt, why the definite specification of particular Beaver American Plasters by the architect is a growing tendency.

THE BEAVER PRODUCTS CO., Inc., Buffalo, N. Y. Dept. 2508

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AMERICAN
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404 Hunkin-Conkey Bldg.
COLUMBUS,
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NEW YORK CITY,
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PHILADELPHIA,
1613 Samson Street.
ST. LOUIS,
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TORONTO,
2258a Bloor Street, West.
TRENTON,
339 Broad St. Bank Bldg.
WASHINGTON, D. C.,
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YOUNGSTOWN,
509 Wick Building.
CORK INSTALLATIONS
United Cork Company
Lyndhurst, N. J.

THIS is an age of fine plastering, with a wealth of textures and color treatments far beyond the dreams of a few years ago. But it is not the quality of the plaster, but what's behind it, that determines lasting satisfaction with walls and ceilings.

Behind fine plaster, Par-Lock prevents stain, sweating and cleavage by (1) waterproofing the wall, (2) sealing against chemical reactions, (3) stopping the chill-bearing air currents that pass through pores of wall and plaster, (4) providing an elastic adjustment for differences of expansion between plaster and its support, (5) improving the bond.

Behind Par-Lock is a national organization of expert, responsible applying firms. Par-Lock is a service, not a mere material. For lasting satisfaction on high quality interiors, rely on the Par-Lock Applier and rely on

Par-Lock

Any Par-Lock Applier will gladly furnish data on Par-Lock and consult as to the character and cost of application required in a given case. See an applier or write to

The Vortex Manufacturing Co.
1984 West 77th Street Cleveland



“You’re Doing a Great Work”

To date, approximately one thousand architects have been interviewed by members of the National Council for Better Plastering in an effort to obtain the suggestions of the profession toward the betterment of the campaign. In each case, the ideals of Better Plastering have been fully explained.

If we could take one phrase to sum up the expressions of the architects interviewed, it would be,—“You’re doing a great work!”

As in past years, the Better Plastering campaign is a direct effort to raise the standards of plastering to a higher level through the use of improved materials and workmanship.

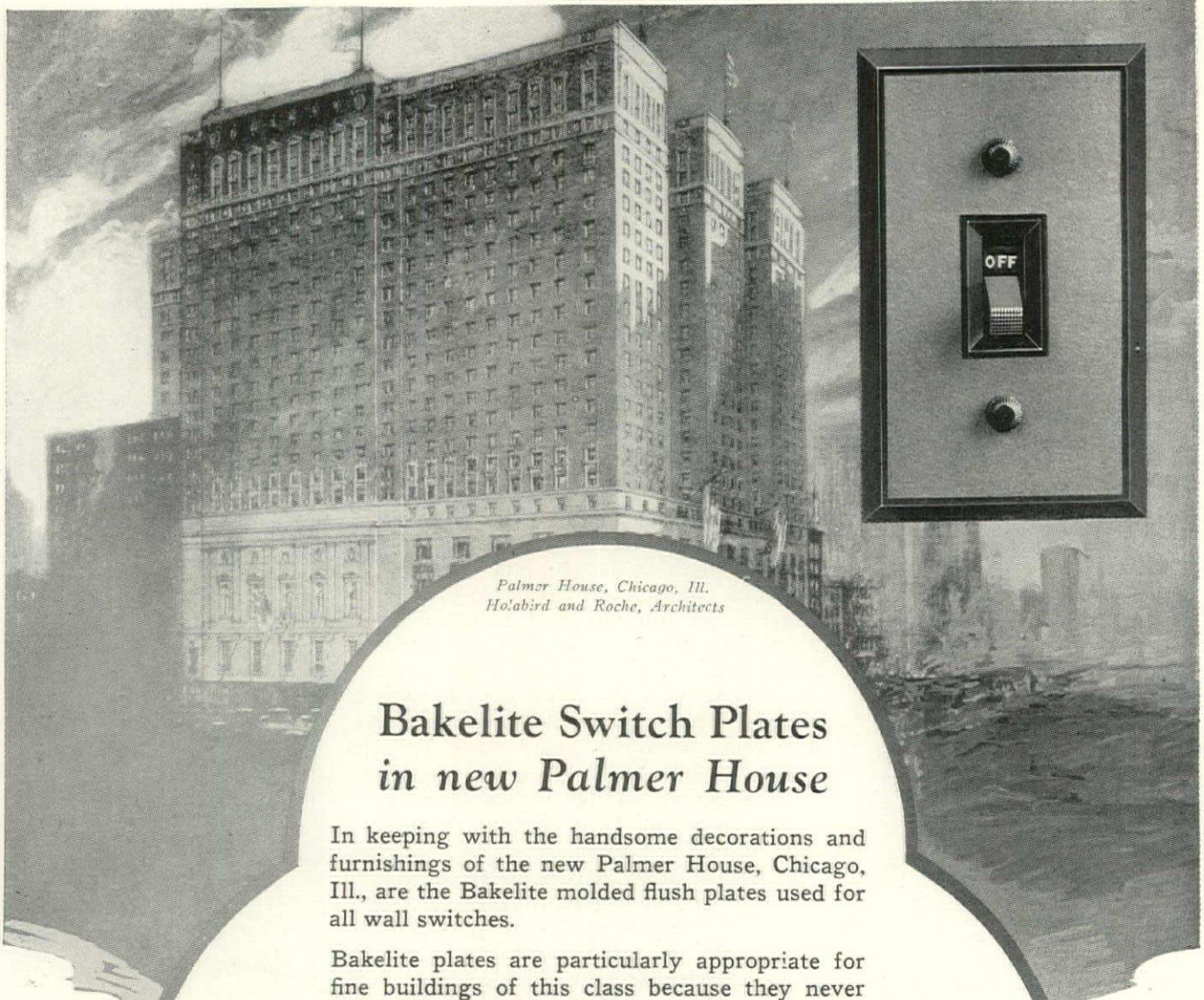
Even the speculative or operation builders are feeling the demands of the public. Today a specification for Better Plastering on metal lath finds greater favor with the owner than ever before. That is one of the evidences of the swing toward better construction.

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THE NATIONAL COUNCIL FOR BETTER PLASTERING
1305 Madison Square Bldg., Chicago, Ill.

BETTER PLASTERING ON METAL LATH





*Palmer House, Chicago, Ill.
Ho'abird and Roche, Architects*

Bakelite Switch Plates in new Palmer House

In keeping with the handsome decorations and furnishings of the new Palmer House, Chicago, Ill., are the Bakelite molded flush plates used for all wall switches.

Bakelite plates are particularly appropriate for fine buildings of this class because they never get shabby, as the original color and finish is permanent.

These plates are made for all standard types of flush switches and outlets, and are obtainable in brown and several other colors to harmonize with practically any decorative treatment.

A number of the leading wiring device manufacturers make Bakelite plates, and we would be glad to have them show you samples and quote prices.

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BAKELITE

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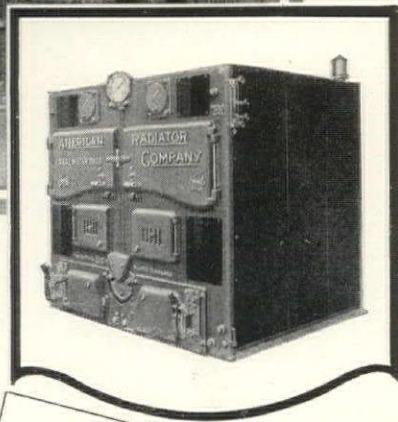


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Oxford Hall, Detroit, Michigan, warmed by an Ideal Water Tube Boiler



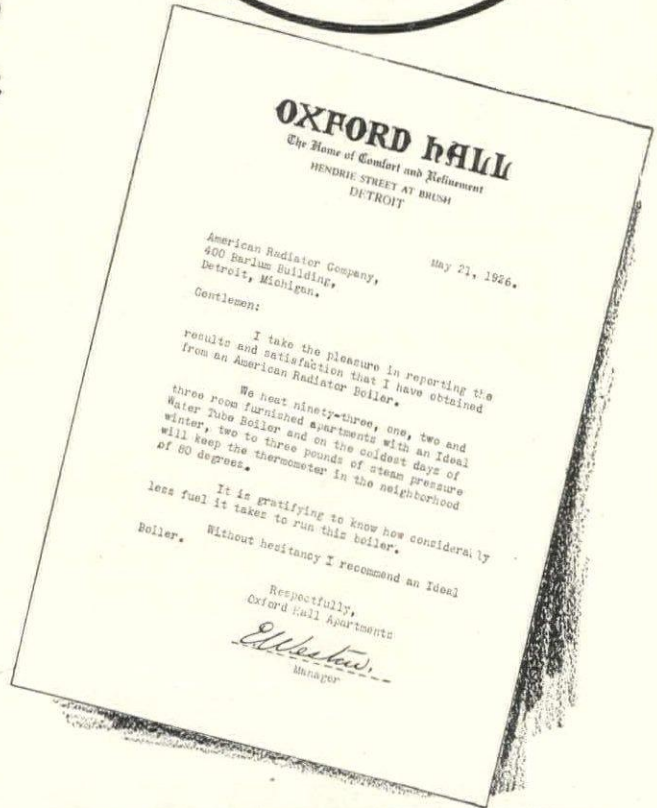
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The letter at the right is not unusual. And naturally the architect gets the credit for having specified a perfect heating plant.

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Without hesitancy I recommend an Ideal Boiler.

Respectfully,
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—*Don't Trust Hands*

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When you are working on a reinforced concrete job, get in touch with Kalman. Kalman engineers will be glad to help you. Just write.

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Residence of R. A. Perkins, Sioux Falls, South Dakota. One Oil-O-Matic is used to heat the 10 large rooms.

An architect builds his own house and omits the coal bin completely

When R. A. Perkins, an architect of prominence in Sioux Falls, South Dakota, built his own house he planned on oil heat. How well he chose his oil burner is indicated by the remarks of his wife.

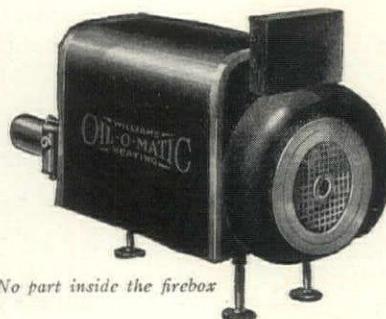
“Our house is new, with painted walls in delicate shades of cream and gray. Yet this spring, these same walls were fresh and clean!

“Our Oil-O-Matic has been a happy investment in every way. We can go for a week-end or longer, and there will

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Oil-O-Matic leads the world in oil burner sales. For seven years, it has shown how perfect oil heat can be, in any size house and with any kind of good heating plant.

For full information, advise with the oilomatician in your community. Write for our latest book, “OIL HEATING—and what it means to the architect.”



No part inside the firebox

WILLIAMS OIL-O-MATIC HEATING

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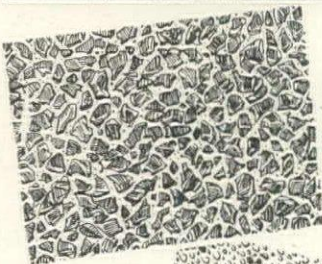
Williams Oil-O-Matic Heating Corp.,
Bloomington, Illinois.

Please send us a copy of “Oil Heating” and the name of the oilomatician in our community.

Name

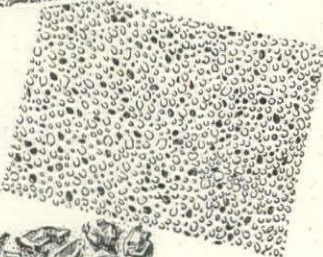
Business Address.....

Licensed Under Patent Rights of Nathan C. Johnson in the U.S. and Abroad



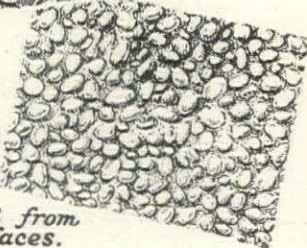
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for application to metal or wood forms.

STUCCO Con-Tex
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for 100% bond on all concrete work.

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for surfacing roadways, ramps, sidewalks, etc.



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A Bridge

at U.S. Naval Training Station, Great Lakes, Ill.
Bureau of Yards & Docks
U.S. Navy

This bridge is surface finished by Standard CON-TEX—the most economical and reliable means of giving texture, color, and character to concrete.

CON-TEX is a quick-drying, paint like material brushed on the forms before casting concrete. By CON-TEX action the surface layer of cement is prevented from setting to a predetermined depth. After the forms are removed, the loose surface particles are brushed off leaving the outer surface of the embedded aggregates exposed, giving character and beauty to the concrete.

Every engineer, architect, builder, superintendent and foreman should have a copy of "Surfacing Concrete with CON-TEX." Ask for it!

CONCRETE SURFACE CORPORATION
342 MADISON AVENUE, NEW YORK CITY

Con-Tex

The Surfacing for Concrete

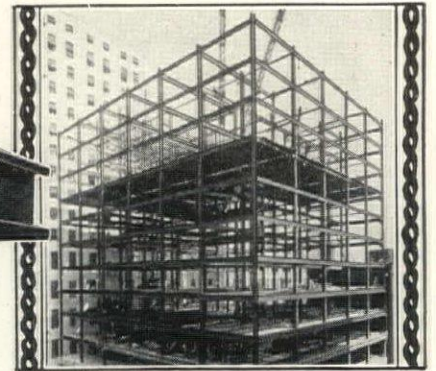


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In fact in all light occupancy buildings



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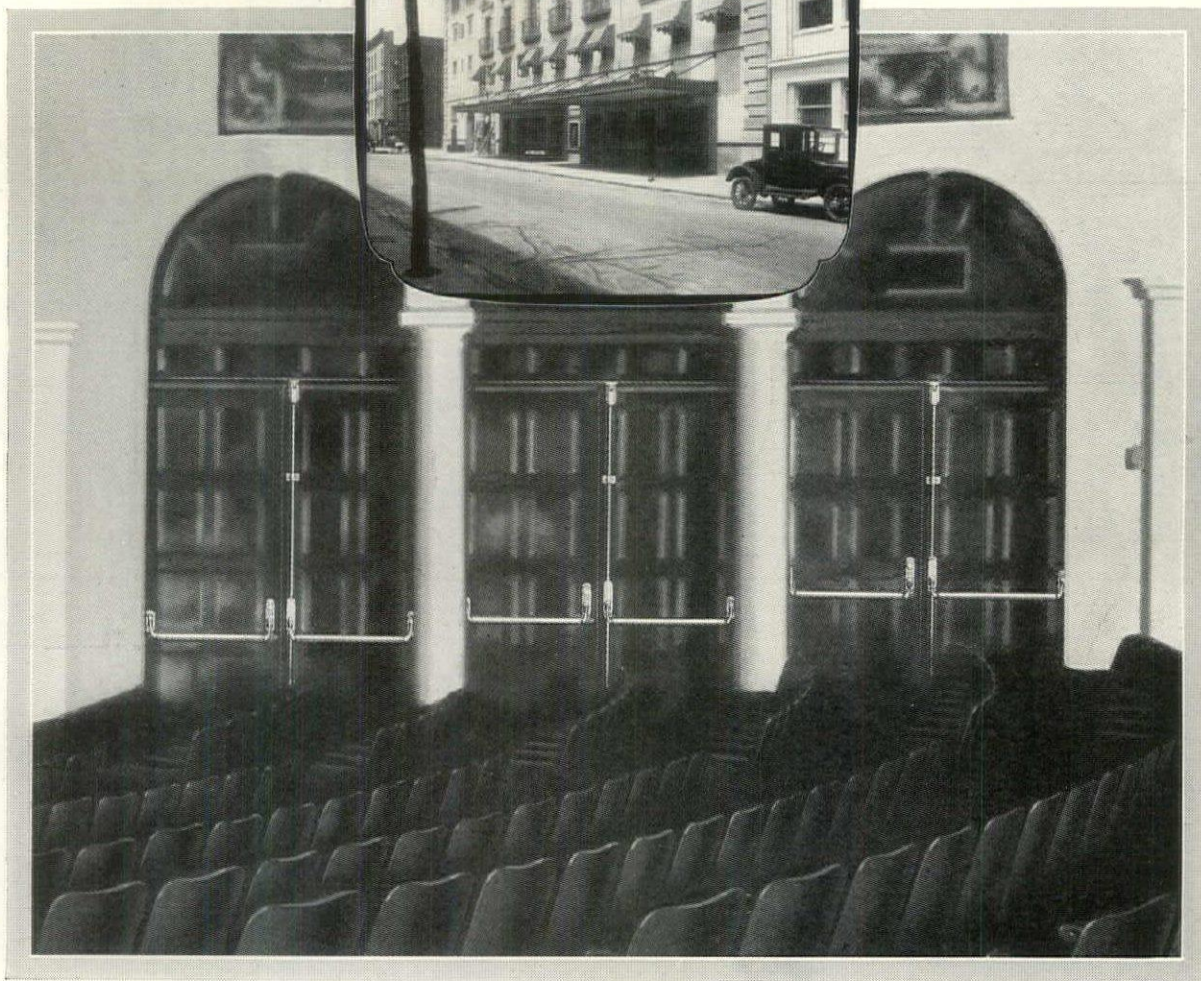
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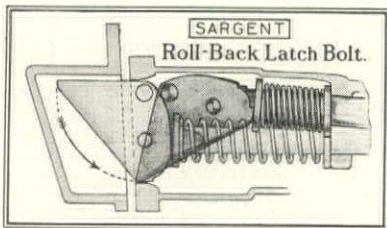
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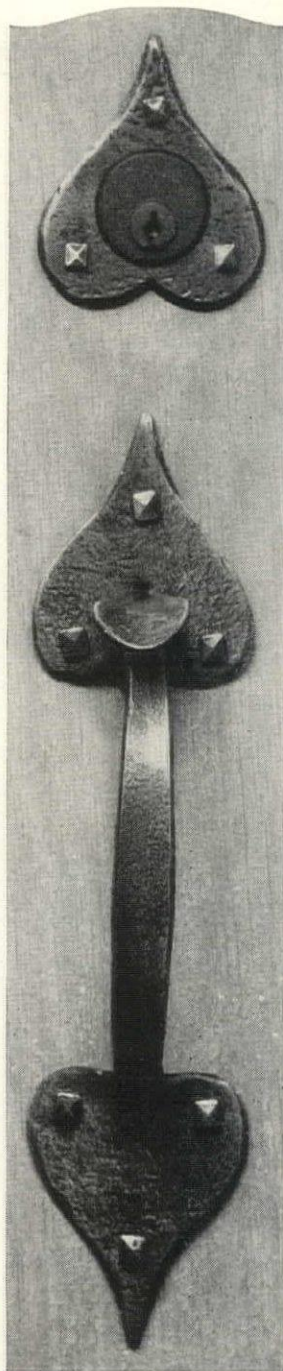
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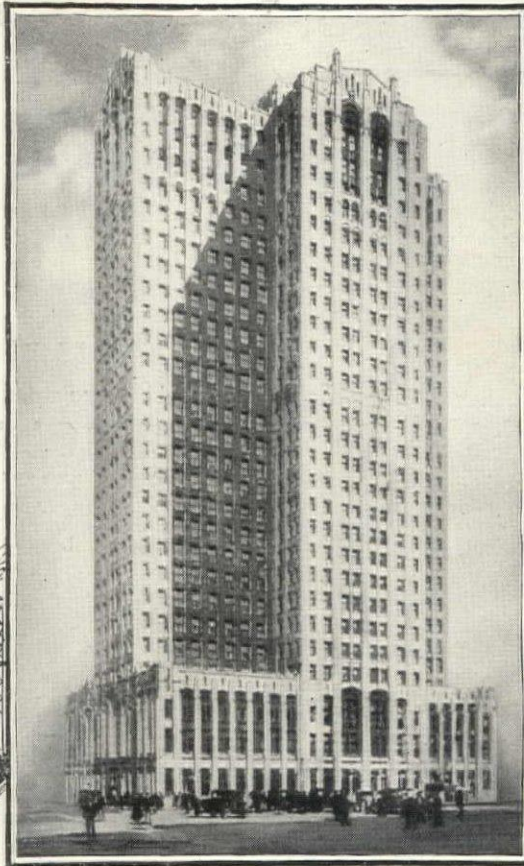
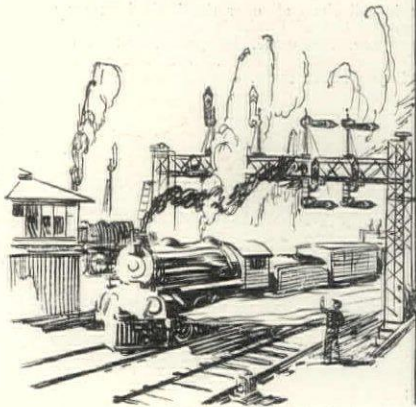
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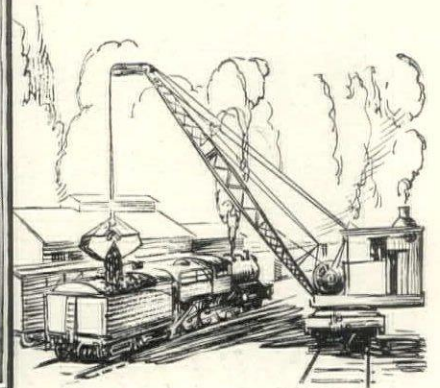
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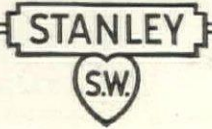
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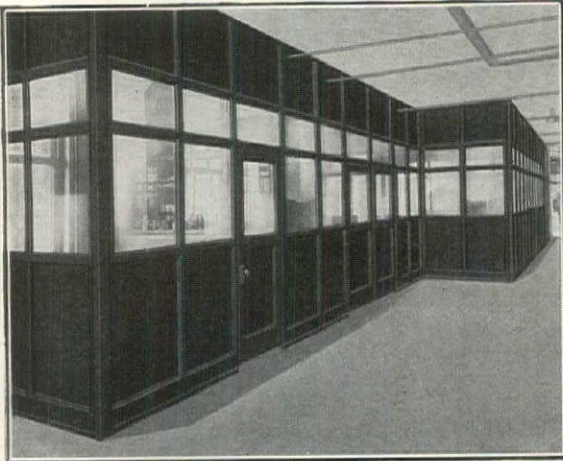
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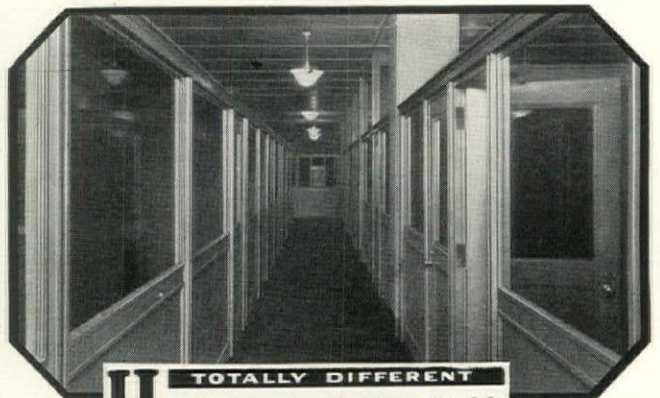


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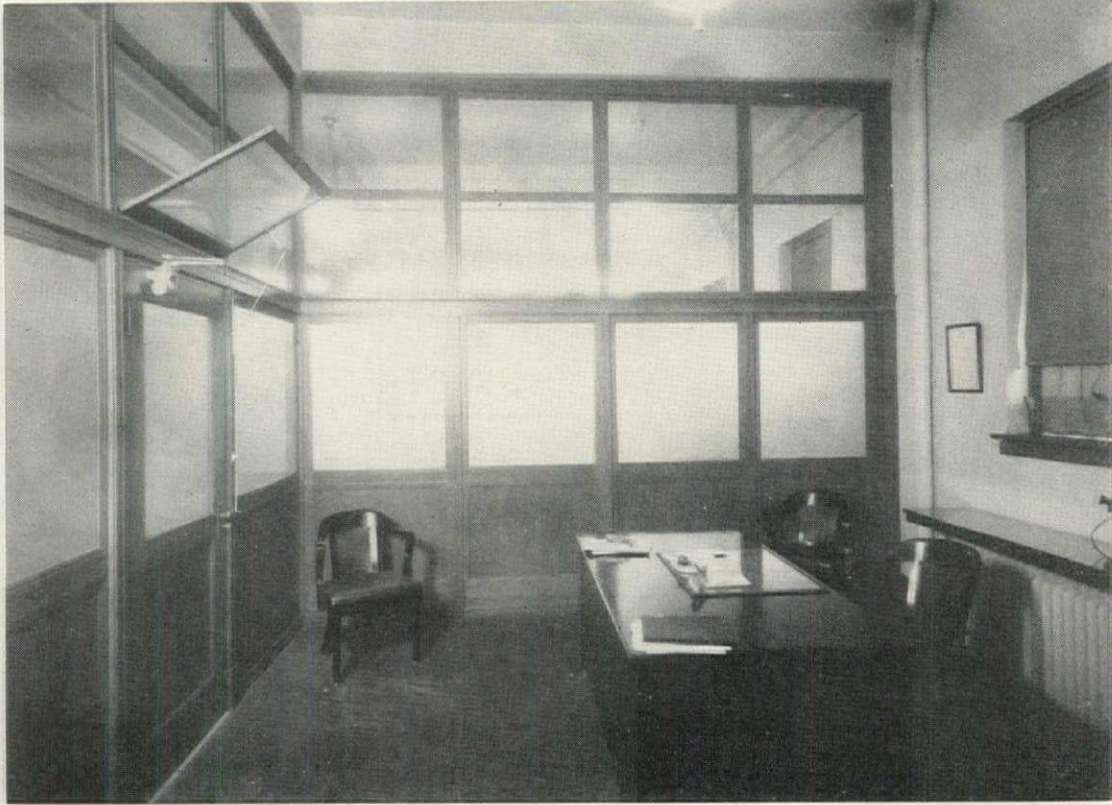
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CIRCLE PARTITIONS

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The Splendor of the Romanesque

A STUDY OF THE TYPE IN ITALY

MANY a student of architecture, dazzled by the rich and severe beauty of Greek and Roman forms, absorbed in the mystery of the Gothic age, or carried away by the brilliance of the Renaissance or the types which have sprung from it, fails to give more than casual interest to what to other students is more interesting than any,—the Romanesque, as it was developed in western Europe during what may be roughly described as the two centuries from 800 to 1000 A. D.

The world during the ninth century and the tenth was obsessed with the belief that the year 1000 would see the end of all things as foretold by the Apocalypse. When the mystical year had passed and the world still pursued her wonted way, there came a powerful renewal of interest in things earthly, art and architecture being by no means overlooked. There had been another reason for this renewed interest. The reign of Charlemagne, giving promise as it did of a Europe once more united and powerful, had renewed faith in Rome as the predestined center of the world and had tended to again spread over Europe the belief that from Rome should emanate the animating force necessary for invigorating and once more renewing the earth.

The type of architecture which arose during this era and which is called "Romanesque" forms the subject matter of the volume under review. Among the characteristics of the style a few may be briefly mentioned: (1) wide use of the round or semi-circular arch; (2) walls of brick or of stone given a more or less smooth surface, or else built of alternating courses of brick and stone; (3) use, particularly at doors, of columns free-standing or engaged, clustered shafts or half-rounded piers from which round arches were made to spring; (4) placing of small arched windows in groups of two, three or more resting upon slender colonnettes, the entire group often set within a single larger blind arch; (5) much use of corbels, corbel tables, or pilaster strips upon which (particularly upon outer walls) members forming blind arches were placed; (6) use of the rose win-

dow, a detail which during the Gothic era was to receive treatment incomparably magnificent; (7) a wide use of ornament derived from Byzantine sources, particularly in the form of carving on capitals, *voussoirs* and spandrels. Many parts of Europe felt the stirrings of this revitalizing influence upon architecture, and particularly of

an incomparable beauty was and still is the Romanesque of Italy which is discussed here.

In this volume there is given a presentation of what yet remain of the Romanesque structures built in Italy, a country which made wide use of Romanesque forms long after the rest of Europe had been committed to the use of Gothic. The time when they were built antedated the era of building great city palaces and country houses, and building was largely or rather chiefly in the form of churches, the plan of which was ordinarily that of the primitive basilica (often with an *atrium*), a semi-circular apse forming the east end of the nave and often of each of the aisles. Circular churches were not unknown, and extensive use was made of the *campanile*, sometimes joined to the church and sometimes standing alone. Added to the richly decorative use of



Side Portal of a Church in Cagliari
Romanesque of the Thirteenth Century

Romanesque forms for the buildings themselves a use supremely rich was made in fashioning details of interior furnishings, parapets to screen choirs or chapels; *ambos* or pulpits; fonts and episcopal thrones; paschal candelabra; altars and their *baldachinos* and other accessories.

A work of this scope is necessarily largely of illustrations. This volume, apart from some 27 pages of excellent text, is entirely of half-tone illustrations selected with a view to widening the practical application of the Romanesque style. The mere selection of subjects for illustration from the vast number available proves the author possessed of taste of a high order. The volume constitutes a valuable addition to the data regarding an architectural type of importance to the modern world.

ROMANESQUE ARCHITECTURE IN ITALY. By Corrado Ricci. 260 pp., 9 x 11½ ins. 350 illustrations. Price \$10. Brentano's, Inc., 2 West 47th Street, New York.

Any book reviewed may be obtained at published price from THE ARCHITECTURAL FORUM

HOUSE & GARDEN'S Second Book of Interiors

EVERY little while a new volume is added to the HOUSE & GARDEN series, which deals with houses, their exteriors and interiors, and their gardens. In this, the latest and by far the most helpful and stimulating of these volumes, there has been collected the very best of the invariably excellent matter which has appeared in HOUSE & GARDEN during the past year or two. It is a volume valuable alike to the architect, the interior decorator and the home owner, as well as to the large number of people casually interested in interior decoration.



SEVEN hundred illustrations deal with every department of the house,—entrance porches, vestibules and halls; reception and living rooms; libraries, dining rooms and kitchens; stairways; bedrooms and bathrooms; verandas and terraces, all these illustrations presenting the most perfectly planned and beautifully arranged examples, the greater part of which are of distinctly moderate cost. Other departments deal with color schemes of which a great many are suggested; with accessories, such as book-cases and built-in bookshelves; lamps and lamp shades; mirrors and other details of furnishing; and one section is given up to illustrations and text which make entirely plain the types of furniture of the different historic periods.

It would be impossible to over-emphasize the value of this work to anyone interested in its subject.

223 pages. 9¾ x 12¾ inches. Price \$5.

ROGERS & MANSON COMPANY
383 MADISON AVENUE, NEW YORK

THE DEVELOPMENT OF AMERICAN ARCHITECTURE. By Joseph Jackson. 230 pp. 5 x 7½ inches. Price \$2.50 Net. David McKay Co., Washington Square, Philadelphia.

WHATEVER may tend to increase popular appreciation of architecture, and especially whatever may tend to deepen appreciation of the great heritage of early American architecture and the work of individual architects who worked prior to the middle of the nineteenth century, is to be sincerely welcomed as a contribution of value. "The Development of American Architecture," by Joseph Jackson, a volume just issued from the press of the David McKay Company, of Philadelphia, is a useful addition to the literature already published dealing with the field just indicated. In the 214 pages of text with 50 half-tone illustrations, many of which are reproduced from old prints and drawings, the author pleasantly discusses the story of American architecture between the years 1783 and 1830.

The chief value of the book lies in the stress it places on the work of Benjamin Henry Latrobe, Robert Mills, William Strickland, Robert Carey Long, John McComb, Jr., Major L'Enfant and others whose names are too often forgotten when American architecture before 1830 is under consideration. Latrobe, McComb and L'Enfant, it is true, are something more than mere vague memories to a great many people; but Mills, Strickland and Long and the work they performed are in danger of sinking into an undeserved oblivion even among those who should have a reasonable acquaintance with the architectural annals of the country. By their personal labors all these men profoundly influenced the form and substance of American building, and not only in their own day and generation, for they also left an indelible impress upon the development of national architecture that can be clearly traced down to the present day. Many of the buildings they designed have unfortunately been demolished, but enough remain to afford important links with the past, and the authorship of these monuments should not be a matter of indifference. Mr. Jackson has told the story of these architects and of the buildings they erected in a way likely to remain in the memory.

Another admirable feature of Mr. Jackson's little volume is to be found in the clear manner in which he has pointed out the different phases of building development that were going on simultaneously in the several parts of the country. One of the most illuminating chapters dealing with this sectional growth and the local peculiarities manifested is devoted to the building of Washington. In discussing the popular attitude of the time towards the proposed creation of the federal capital, the author observes that "there were backward-looking persons in those days as well as in these, who wanted to harass progress. They were alarmed at the proposed size of the new federal district, which was to be ten miles square." But Washington pointed out that "if the metropolis of Pennsylvania (Philadelphia) occupied a tract two by three miles, the extent of the federal city was none too large."

Major L'Enfant's connection with the planning of Washington is generally known, and a great many are acquainted with the fact that he was never paid for his labors, as he indignantly refused the inadequate sums voted by congress. In alluding to the difficulties created by the temperamental Major's own attitude, Mr. Jack-

son says: "It is unfortunate that L'Enfant was so impatient and domineering. He had trouble from the start, because he began to act upon no authority but his own, and actually demolished the house of a respected resident of Duddington, both against the owner's wishes and without authority from the commissioners under whom, by law, he was serving. His best friend, President Washington, was compelled to tell him in exact terms that he had disobeyed the law and would have to take the consequences. He told him that he must work with the commissioners. Even to this advice of a friend and the chief personage of the country, L'Enfant was deaf, and continued his work defiantly. Washington recognized his worth to the country, but he wrote to the commissioners after the Duddington incident: "You are as sensible as I am of his value to us. But this has its limits; and there is a point beyond which he might be over-valued." Finally the President was forced by his continued defiant and unlawful acts to dismiss the French engineer. The latter continued to live in this country, but withdrew himself and nursed his grievance. Throughout he had acted as a spoiled child, and would brook no interference. The book is full of such intimate and elucidating sidelights. There are also valuable comments on the dawning recognition of architecture as a necessity.

VERSAILLES; ITS LIFE AND HISTORY. By Cecilia Hill. 243 pp. 4¾ x 7½ inches. Price \$2.50 Net. Little, Brown & Co., Boston.

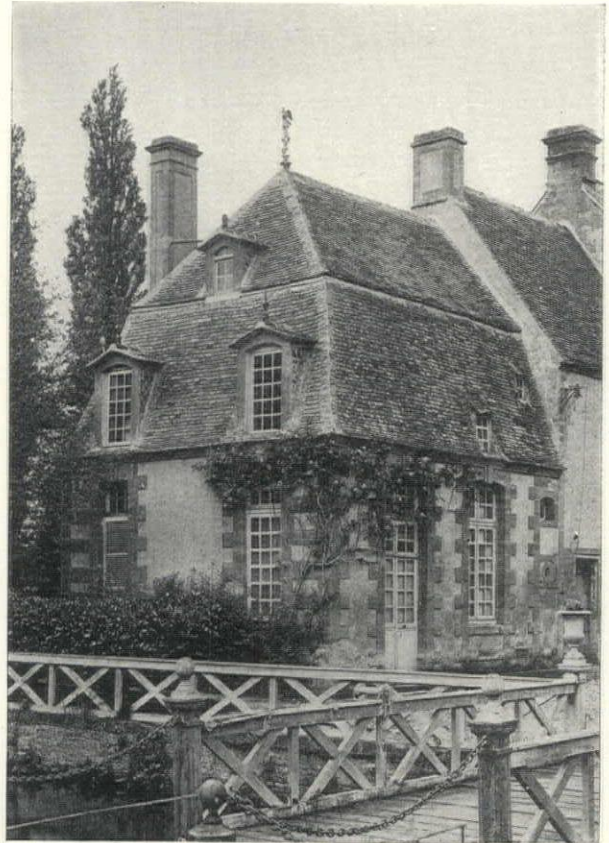
OF books about the Palace of Versailles there may well be no end, perhaps because the kingly dwelling begun by Louis XIII and brought to completion by the *Grand Monarque* may be justly regarded as France in epitome during the seventeenth and eighteenth centuries, and the life of Versailles as the quintessence of French life and history during this period. The whole architectural, artistic and social life of France found its focus, indeed, at Versailles from the time that Louis XIV started on his magnificent building career until the dark days of the French Revolution ended an era of dazzling splendor altogether unparalleled.

At all events, however one may regard Versailles historically and socially, it cannot be denied that the fabric alone is an inexhaustible storehouse of interest. The authoress of this book of 235 pages, embellished with numerous half-tone illustrations, has performed an invaluable service in giving a most carefully detailed and admirably arranged history of the building, noting all the successive changes that have taken place. Not only has she done this in the most lucid and logical manner imaginable, but she has also contrived to remove the subject from the realm of dry-as-dust data and statistics and infuse into it an enormous amount of human, personal and historic interest, so that the different chapters are not merely records of materials and dimensions, which one reads and straightway forgets, for the facts are so interwoven with personal incidents and anecdotes that they fix themselves quite indelibly in the memory. The Palace of Versailles is peculiarly the outward manifestation of *Louis-le-Grand's* personality, the abiding memorial of his hopes and aspirations, his triumphs and failures. Since this is so, no one can hope thoroughly to understand the building without knowing something of the man who called it into being and who imposed his personality and ideals upon the architects and other artists who worked for him, not merely in a perfunctory,

FRENCH PROVINCIAL ARCHITECTURE

*A Constructive and Practical Work on
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By PHILIP LIPPINCOTT GOODWIN
and HENRY OOTHOUT MILLIKEN



SOME of the most graceful and distinguished architecture in the world exists in French provincial towns, small villages and in tiny hamlets which cluster about the great chateaux—small manors, half-timber cottages, shops and buildings of other kinds. Much of this wealth of design is applicable to American use—the exteriors largely for suburban or country houses, and the interiors for residences or apartments. The authors, with unerring architectural taste and judgment, have selected just those details which possess proportions and suitability for present-day use. The volume contains illustrations, plans and measured drawings worth considerably more than the cost of the work.

*Text, 40 Plates of Measured Drawings
94 of Illustrations*

Size of Pages, 11 x 15 ins.
Price \$20

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professional manner but with genuine enthusiasm, and aided him to amply realize his architectural ambitions.

In view of this unique condition, the authoress has included a singularly able, fair and sympathetic analysis of Louis' personality and character. In part she says of him: "Louis XIV had two sides, the man and the king—and the king came first. As such he saw himself a divinely appointed intermediary between God and people. . . . As such he was invariably benevolent, measured, great; with an enormous patriotism and sensitiveness for France so that every Frenchman felt the honor of the country to be safe in his hands. He gave a prestige to monarchy unknown before. Never, through all the intoxication of youth and adulation and passion, did Louis XIV forget what was due to the dignity of the crown. Hence the decorum, even in his faults—though he never loved a woman as much as he loved France.

"He could be hard and incredibly selfish in private life, and considered himself placed above the morals of ordinary persons; but then all his subjects shared that view. It was he himself who set the limit to his will—a limit that touched every point of life—his duty as a king. He had an enormous sense of duty. He worked hard for France. Never for any hunting did he miss a council meeting, or neglect a state appointment, or say foolish, indiscreet things or betray a state secret. As a child he was given to violent anger, but only three instances were noted in his later life that he gave way to it. This self-control, this sense of measure and dignity spread even to small things, to dressing, eating, ceremonial, precedence, and it

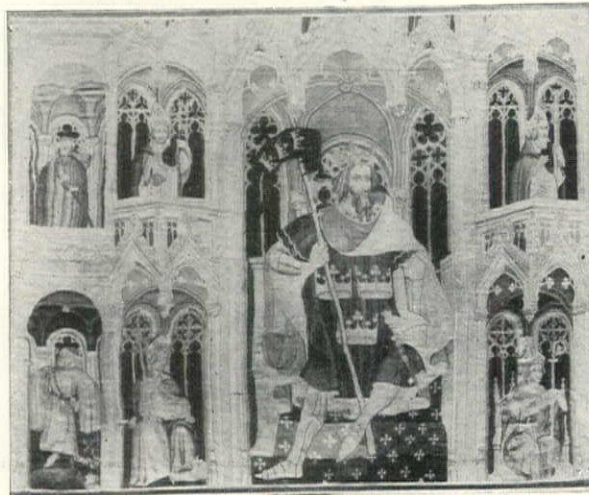
must be owned that Louis XIV had little sense of humor. . . . Though as a young man he was clumsy, he so schooled his body for the sake of France that majesty and gracefulness seemed natural to him. . . . He kept his body agile into middle age by constant exercise. He had the large Bourbon nose; contemporaries agree he was not handsome as a boy, and he was early pitted with small-pox; still, his profile was one to delight sculptors, and Lebrun turns it to decorative use on his ceiling. In fact he grew 'decorative' in a massive way—what we call *grand siècle*. . . . He could look like a country farmer or like a Roman emperor. Perhaps because of his neglected, lonely childhood he seldom smiled, but when he did, the smile was winning, and his courtesy toward women was invariable; he raised his hat even to a housemaid."

It is refreshing to have an estimate of Louis XIV that is neither a fulsome panegyric nor an unlimited denunciation, an estimate that portrays him as he really was, a very human mixture of good and ill. But it is not Louis alone whose personality is inseparably associated with the halls and *salons* of Versailles. The writer has agreeably traced the many other personal associations with the various parts of the Palace so that we may see Madame de Maintenon, the young Duchesse de Bourgoyne, the sharp-tongued Madame, Louis' sister-in-law, or the queenly Marie Antoinette, each in her accustomed environment. All of this combined architectural, historical and personal subject matter is so pleasantly blended that the book cannot fail to be both useful for reference and exceedingly readable, however one may intend to use it.

The Practical Book of Tapestry

By George Leland Hunter

THE intimate connection between tapestry and architecture as well as the frequent use of architectural motifs in tapestry design gives to tapestry and its history an interest to architects which is strong. Primarily associated with the Gothic age, which saw what were perhaps the most brilliant of its triumphs, tapestry has been identified with the development of all of western Europe and with the different periods—the Renaissance, early and late; the Baroque age; the eras of the different Louis; and in later days with the various places where looms have been set up and where present-day workers are engaged in creating by use of old-time methods those marvelous weaves which add to any surroundings where they are placed a richness of decoration which confers dignity and splendor to the place where they are used. No study is more absorbing than that of tapestry.



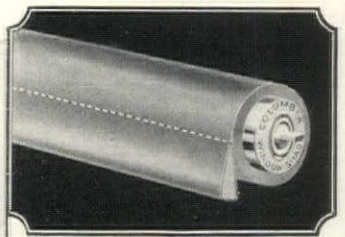
IN this volume is given a complete review of the subject of tapestry. The author has made a deep study of tapestry's history and is familiar with every important example in the world. The volume deals also with the technique of tapestry weaving, the changes and development of its design in different countries at different times, and it goes at length into descriptions of modern looms where this ancient art has been successfully revived. The illustrations, many in full color, add to the reader's interest. All are from photographs made especially for this work, and many show the student for the first time examples of tapestry weaving of the first importance. The volume is particularly valuable by reason of its accurate documentation and full bibliography and because of its giving the names of places where there are to be seen the most important tapestries now in existence.

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Richly illustrated in half-tone and full color. 302 pages; 6½ x 8¾ inches. Price \$10.

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TROUBLE-PROOF is the word that best describes the Columbia Roller. Its spring is silent, rugged and smooth-running. Its brass ferrules are nickel-plated—hence, rust-proof. And in durability, the roller matches the close-textured shade cloth. Both are made to withstand hard service and careless usage. Yet they sell for substantially the same price as shades and rollers which lack their desirable features.

Above—Benton Hotel, Corvallis, Oregon. Houghtelling & Dugan, Architects; L. N. Travers, General Contractor. 261 Crescent Tint Window Shades mounted on Columbia Rollers do 24-hour duty every day in this modern hotel.

Left—Bedell Building, Portland, Oregon. George Schonewald, Architect; Hanson-Hammond Co., General Contractors. 510 Columbia Damasko Window Shades on Columbia Rollers are used throughout this splendid structure.

Windows, windows everywhere and still the light is wrong

The modern building is "all windows"—a structural steel skeleton with glass filling in the open spaces!

Yet, in spite all this effort to secure plenty of window space, nine out of ten buildings are incorrectly lighted during the day. Paradoxical—but true!

Often the trouble is too much light—floods of harsh, unpleasant, eyestraining glare. Frequently, however, the fault is insufficient light—natural daylight barred out by dark, opaque shades.

The fact is that windows are not merely windows—they are lamps which light rooms by day. Look on windows as lamps and a hard problem becomes easy. Just as the light from blazing electric bulbs is always modified by shades or indirect lighting

fixtures, so the light from windows should be transfused and mellowed by modern translucent window shades in *tone colors*.

In the two buildings pictured on this page, the problem of daytime lighting has been scientifically and successfully solved by *Columbia Window Shades*. No glare in those buildings. No buying of expensive artificial light to substitute for free, barred-out sunlight. *Columbia tone colors* let in just the *right* amount of *right* light.

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The ARCHITECTURAL FORUM

VOLUME XLV

NUMBER 2

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PARKER MORSE HOOPER, A. I. A., Editor

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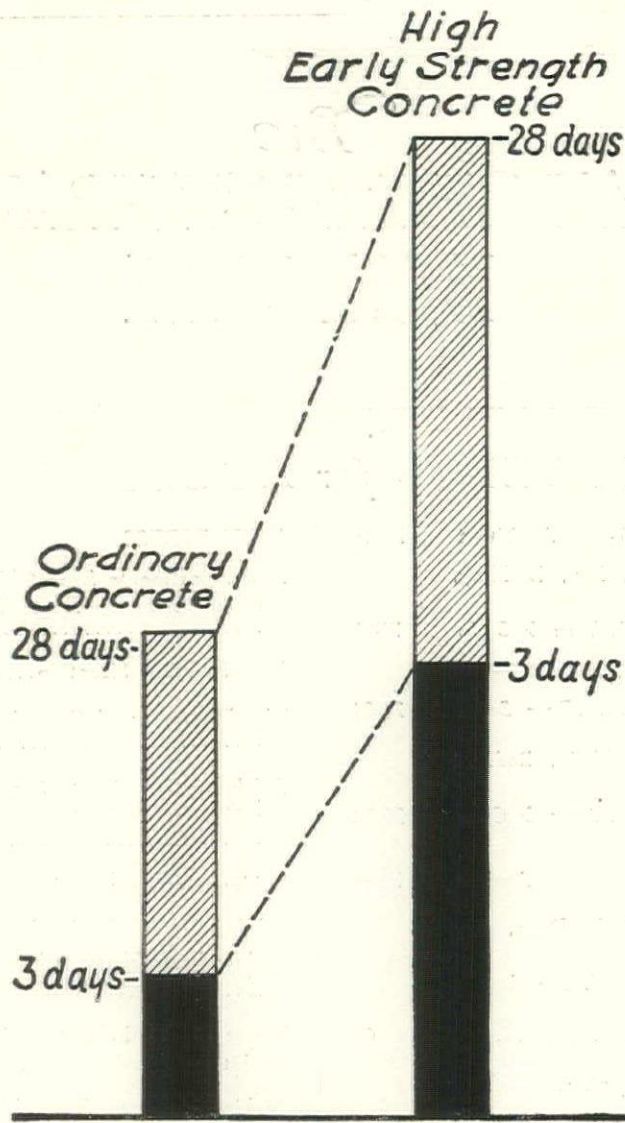
Paul W. Hayes, Asst. Treas.

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THE EDITOR'S FORUM

METROPOLITAN LIFE'S HOMES

TO present in convenient and concise form the history of its notable effort toward providing a practical solution of New York's "housing problem," the Metropolitan Life Insurance Company issues a brochure entitled "Comfortable Homes in New York at \$9 a Room a Month." The booklet describes and illustrates the blocks of apartments in the Borough of Queens of which Andrew J. Thomas and D. Everett Waid were the associated architects, the Metropolitan's aim being to provide at costs within their means comfortable houses for what are ordinarily known in America as the "working classes."

Two paragraphs from the brochure are of particular interest: "As to the financial results. The final reports as to cost are not yet ready, but enough is known to state that the total investment by the Metropolitan Life Insurance Company will approximate \$7,500,000; that the rentals are over \$1,000,000. Figuring expense of operation at what are believed to be liberal allowances, there seems to be no doubt that a net return of at least 8 per cent will be realized, and it is hoped something more. The Company will credit 6 per cent of this return to interest, and anything above that to the amortization of the cost of the property, expecting thereby to gradually reduce the book value to such a point that when tax exemption expires January 1, 1932, the book value at that time will be such that 6 per cent or more can still be realized upon the investment."

"The lesson to be derived from this experiment seems obvious. It is doubtful if 8 per cent net on cost could be realized, without tax exemption, at a rental of \$9 per room per month; but there is no doubt that an additional rent of \$1.50 per month per room would abundantly provide for full taxes. If, therefore, limited dividend corporations, other life insurance companies and employers of labor desiring to produce apartment homes at the lowest rent possible, with a sure net return of say 8 per cent, would use the same methods the Metropolitan has in this operation, there seems to be no doubt that a maximum rental of \$10 to \$11 per room per month will produce 8 per cent net and pay full taxes, but only if the homes are built on low-priced land, easily and cheaply prepared for building, and with public utilities already provided and fully paid for."

A CORRECTION

THE June FORUM presented illustrations of the chapels at West Point and at the University of the South, Sewanee, Tennessee. These chapels were, through an oversight, credited to Cram & Ferguson instead of to Cram, Goodhue & Ferguson.

GOVERNMENT BUILDING PLANS

A DISPATCH widely published in the New York press during June gives some account of the plans the government contemplates taking to stabilize the building industry during the next few years. The government building program contemplated in the authorization of congress of expenditures aggregating \$165,000,000 over the next six years will be manipulated by Secretary of the Treasury Mellon to offset any general financial depression or threat of unemployment. Government operations will be expanded in lean years, and held down in full years of private construction. The building industry is regarded as the keystone in the industrial arch because it has so many related and dependent lines, including the lumber, cement, stone, gravel, iron and steel, plumbing supply, roofing material, and other industries. It is almost always the first industry to reflect spreading unemployment.

Building operations were practically stopped during the war. Private building was quickly resumed, and has been going on with a rush since 1921. The government is just about to resume. It is considered in some economic quarters that building has reached its peak and that a sudden downward plunge would inevitably bring unemployment.

DEATH OF C. W. RAPP

THE demise of C. W. Rapp, senior member of the firm of C. W. and George L. Rapp on June 28 after a brief illness, came as a shock to a wide circle of friends. Born in Carbondale, Ill., he built up a large architectural practice in Chicago, where among the many important buildings attributed to him are the Uptown, Chicago, Tivoli and Riviera Theaters and the Masonic Temple building, in which is incorporated the Oriental Theater, recently opened, and the new Detroit Theater, in Detroit. Mr. Rapp was in fact, regarded as an authority on theaters, particularly motion picture theaters, and to his foresight and energetic leadership is due a great part of the credit for the improvement which has been made in the designing and planning of these buildings.

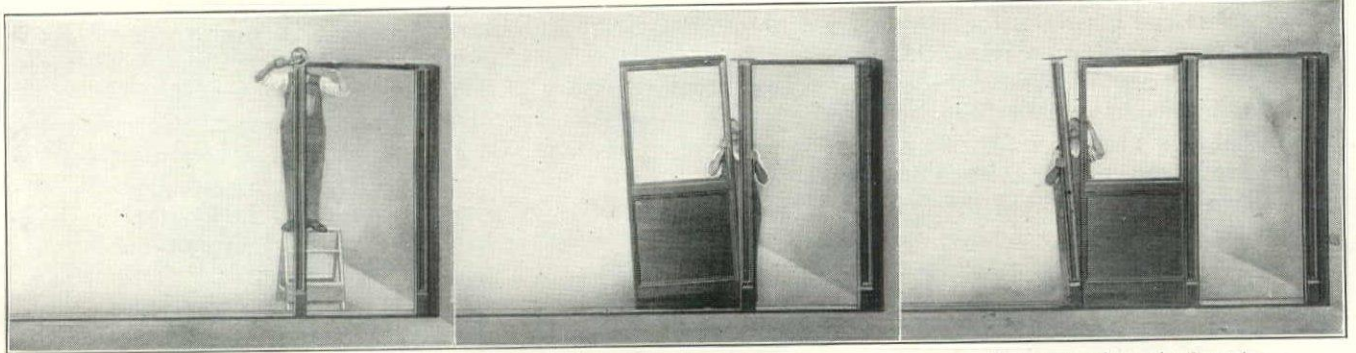
Nor was Mr. Rapp's work wholly connected with theater buildings. The new Paramount Building, now under construction in Times Square, New York; the National Press Building, under construction in Washington; the new Detroit Hotel, and the Metropolitan Office Building in Detroit, and various other large and important building projects in St. Louis, Cleveland, Buffalo, Kansas City and Milwaukee were of Mr. Rapp's design. Under Mr. Rapp's guidance his firm attained a position among those of the first rank in Chicago and the middle west.



Grooved floor strip screwed to floor.

Scribed wall board fits uneven wall.

First door post screwed to floor.



Second door post set.

Section fits in groove of floor strip and post.

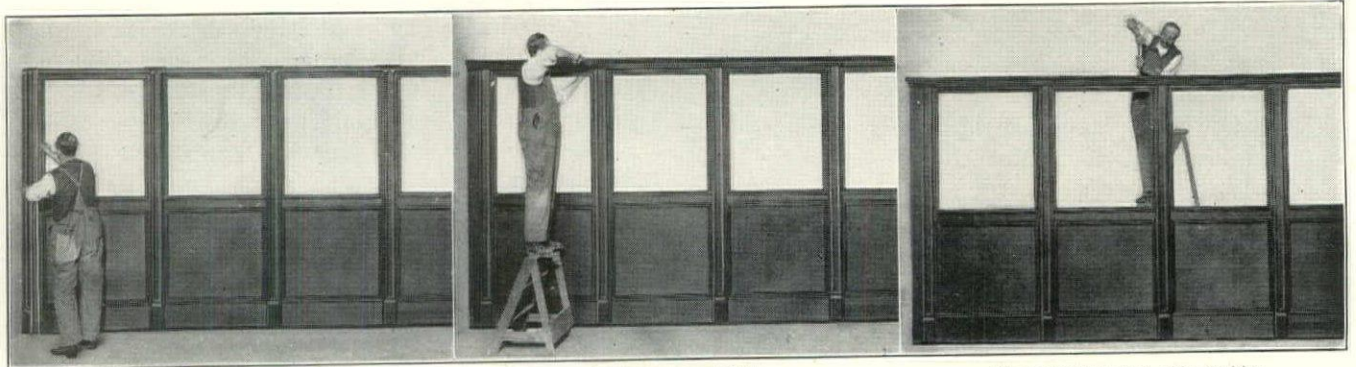
Next post set and screwed to floor strip.

HERE are the twelve important operations in the erection of Telesco Partition. Because it is *screwed* together and not nailed, it can be taken down as easily as it is erected and moved to any desired location. The extension top takes care of different height ceilings. Write for details.

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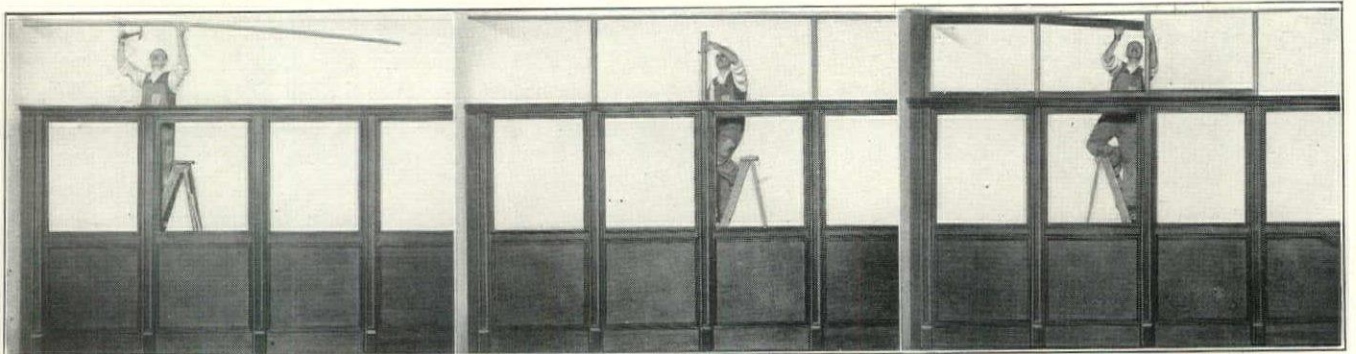
Ashland 7940



Last post fits to scribed wall board.

Screw on crown moulding.

Screw coupling irons to stiffen partition.

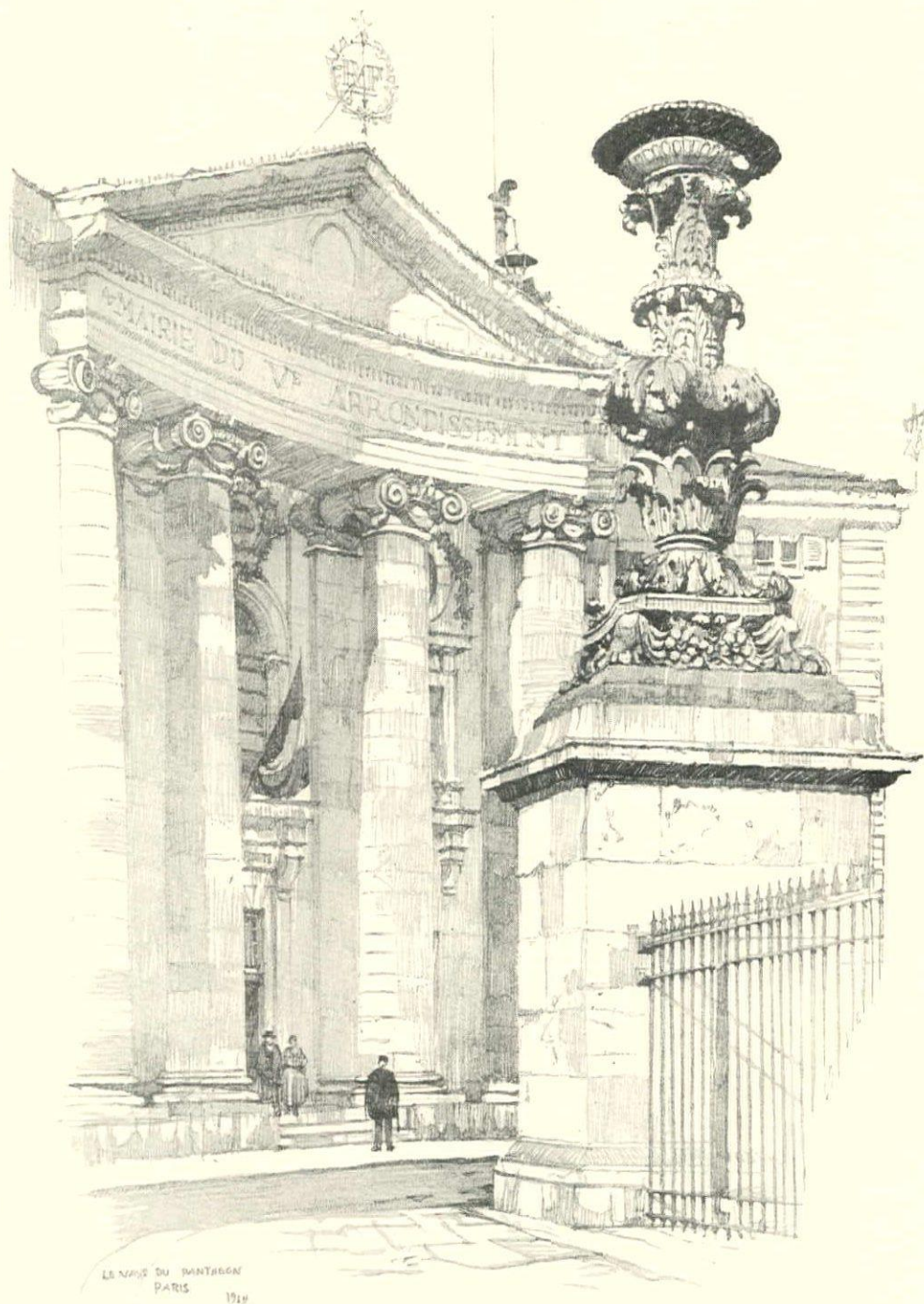


In ceiling partition fasten strip to ceiling.

Raise and fasten extension posts.

Fasten filler strips and attach crown mould.





ENTRANCE TO THE PANTHEON, PARIS
FROM A PENCIL SKETCH BY SAMUEL CHAMBERLAIN

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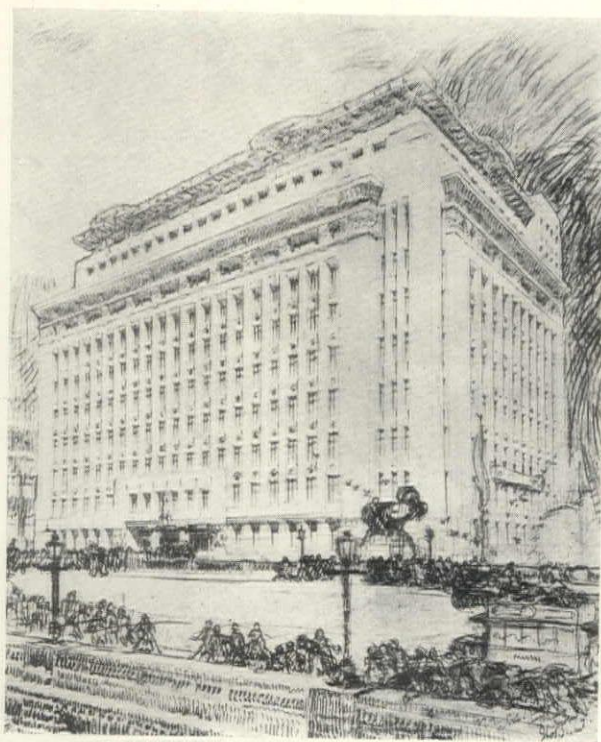
Two Recent London Buildings

By H. J. BIRNSTINGL

THOSE who await the appearance of an architectural style which shall inform contemporary London buildings seem to be waiting in vain. Recently two very large and important structures have been finished by architects of fame, yet it would be difficult to find in them any common quality. Adelaide House and Britannic House, the one by Sir John Burnet and partners, the other by Sir Edwin Lutyens, strike so forcible a contrast that one is led to assume that there exists no common outlook. It must be admitted that the programs for the two buildings are not identical. Britannic House is the headquarters of a single vast and mighty industrial corporation, and thus it contains within its walls a single hierarchy. Adelaide House, on the other hand, is simply a block of separate business offices, so that when once the spacious entrance hall is passed, there lies ahead but a combed hive of offices. This difference is quite clearly expressed in the elevations of the buildings, for, in the one, the windows are graded according to the importance of the rooms which they light (this importance depending upon the position in the hierarchy of its occupant), while the exterior of Adelaide House presents a diapered pattern of windows varying but little in sizes, and not at all in importance. But this difference of programs is insufficient to account for the immense difference in treatment, and one can imagine the historian of the future being sorely perplexed in his attempt to disentangle the architecture of today with all its variations.

In architecture, as in literature and the arts generally, the critical faculty is likely to wilt before a famous name, and Britannic House has received an ovation such as would scarcely have been accorded had it been the work of a younger and less well known man,—for the simple reason that it does not merit it. Britannic House is clever,—brilliantly clever. It disarms criticism by reason of its cleverness, and is comparable to the flowery peroration of a gifted politician, skilled in dialectic and rhetoric, and it beats down critical opposition. It is rich and fascinating. It is like a conjuror whose incessant talk absorbs the attention until the climax of the trick is reached. The means are overlooked; it is the end alone that matters. Unfortunately in architecture, especially in the architecture of a huge city, it is not only the end that matters. A picture may have no duty due to its position, no consideration due to its neighbors; a building has both, and un-

restrained individualism on the part of a building in a busy thoroughfare is as out of place as on the part of a person in a crowded railway carriage. Certain conventions must be observed, for upon them depends the smoothness of communal life. But individualistic behavior in the railway carriage may not always take the form of blatant aggression and rudeness; it may take the form of good natured loquacity, or tiresome friendliness displaying itself in a lack of reticence and forbearance. The great new shops of London offend in the former manner; Britannic House, perhaps, in the latter. It



Adelaide House, London
Sir John Burnet and Partners, Architects



Photo. Sydney W. Newbery

BRITANNIC HOUSE, LONDON
SIR EDWIN LUTYENS, ARCHITECT



Photo. Bedford Lemere & Co.

ADELAIDE HOUSE, LONDON
SIR JOHN BURNET AND PARTNERS, ARCHITECTS

© 1926 by Bedford Lemere & Co.



Detail of the Entrance

is tiresome and fidgety, but it is certainly friendly and good natured, so that it is difficult to be angry with it; as well be angry with a too-confidential neighbor.

There is nothing cheap about Britannic House. The rich industrial corporation was surely not particular as to spending a few thousands more or less. The setting back of the upper stories, a device which achieves a kind of dramatic effect, is surely an expensive luxury,—and then the carving! Delicate and beautiful, executed by Mr. Broadbent and his assistants, it adorns keystones and capitals, and it is particularly prolific above the sixth story windows. Its presence, one presumes, is a continual secret joy and inspiration to the board of directors, who may indeed deem themselves true art patrons, who have set carving before dividends, for without field glasses it is impossible to observe the detail of the carving from the ground, even now when it is newly finished, and in a year or two it will be completely obscured beneath a rich coating of London's soot deposit. Yes, Britannic House ignores realities, at least so it impresses the spectator, although all criticism of it is subject to reservation, seeing that but half the building is as yet completed.

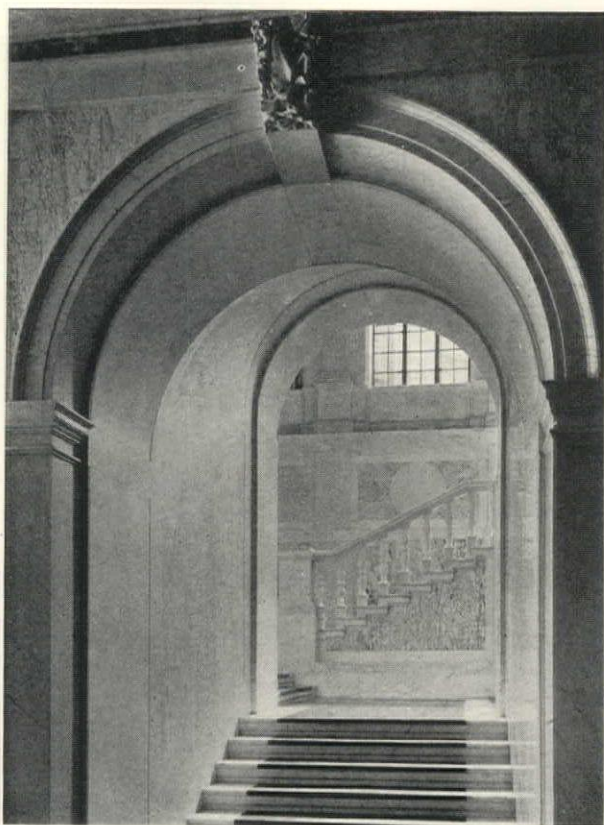
Within there is much to admire. The planning is simple and yet subtle, with its gently curved hall following the line of Finsbury Circus, and its changes of axes due to the irregularity of the site. Within, too, there are ample signs of the exercise of Sir



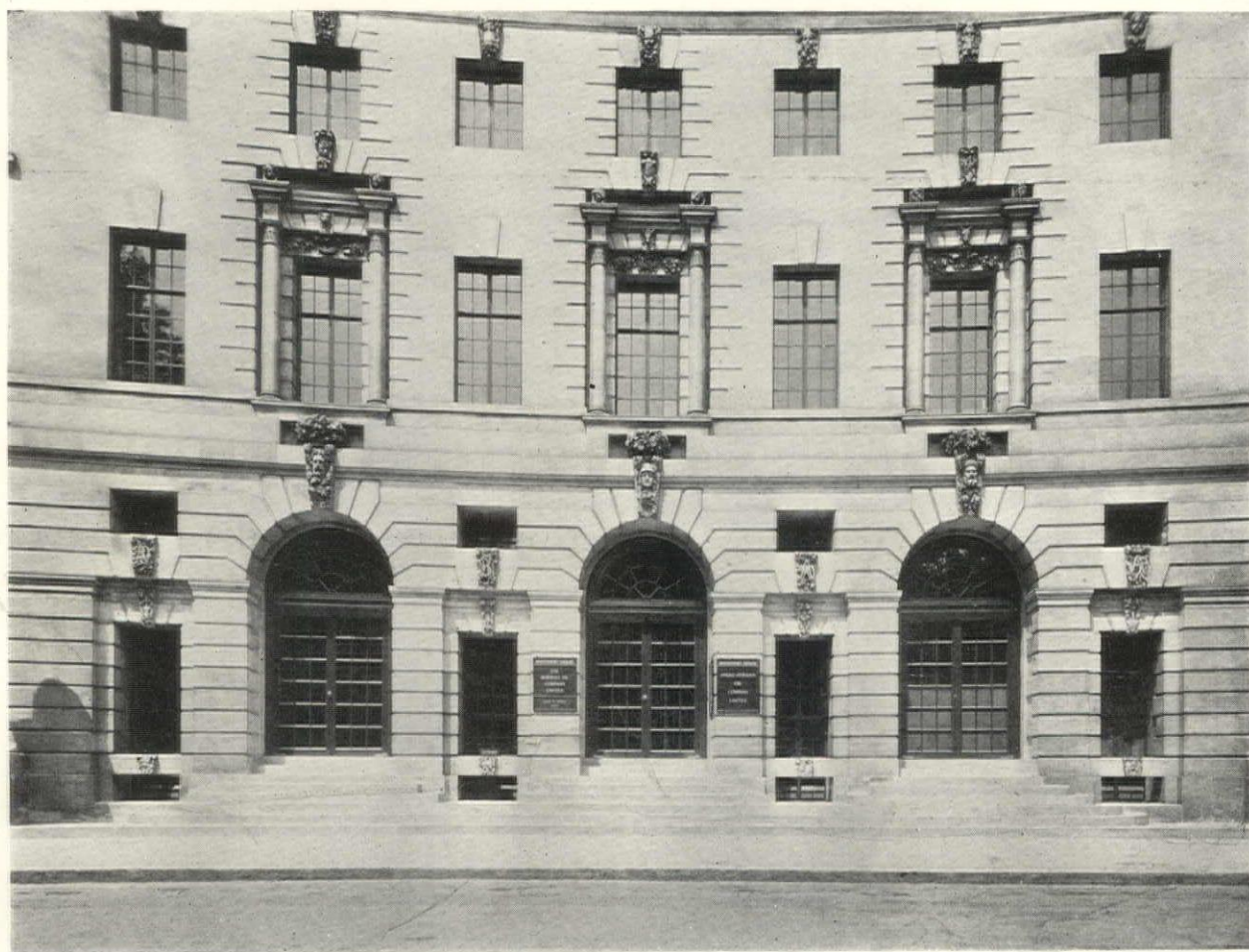
Entrance, Adelaide House

Edwin's fertile imagination. The ground floor hall and corridors are paved with squares of cast iron and white marble. The ceilings are varnished, so that the floor patternings may be reflected therein,—a delightful reversal of the usual procedure, in which the floor is the reflecting surface. Then the staircases are planned from floor to floor on *opposite* sides of the main corridors. The ascent is thus delightfully broken, and the disheartening sense of stepping into an endless well is avoided. The rubber treads, silent and dark, contrast richly with the white marble of wall and shining ceiling. Each floor is paved in rubber of a distinctive color, surely a pleasant, practical treatment. The equipment of the vast building is throughout in accordance with the very latest practice which science and invention have been able to provide; all service mains, pipes, ducts, and so on are discreetly hidden, while yet remaining immediately accessible. Britannic House shows indeed the meticulous coördination necessary among all the trades and crafts engaged upon a vast modern building enterprise to obtain a finished result.

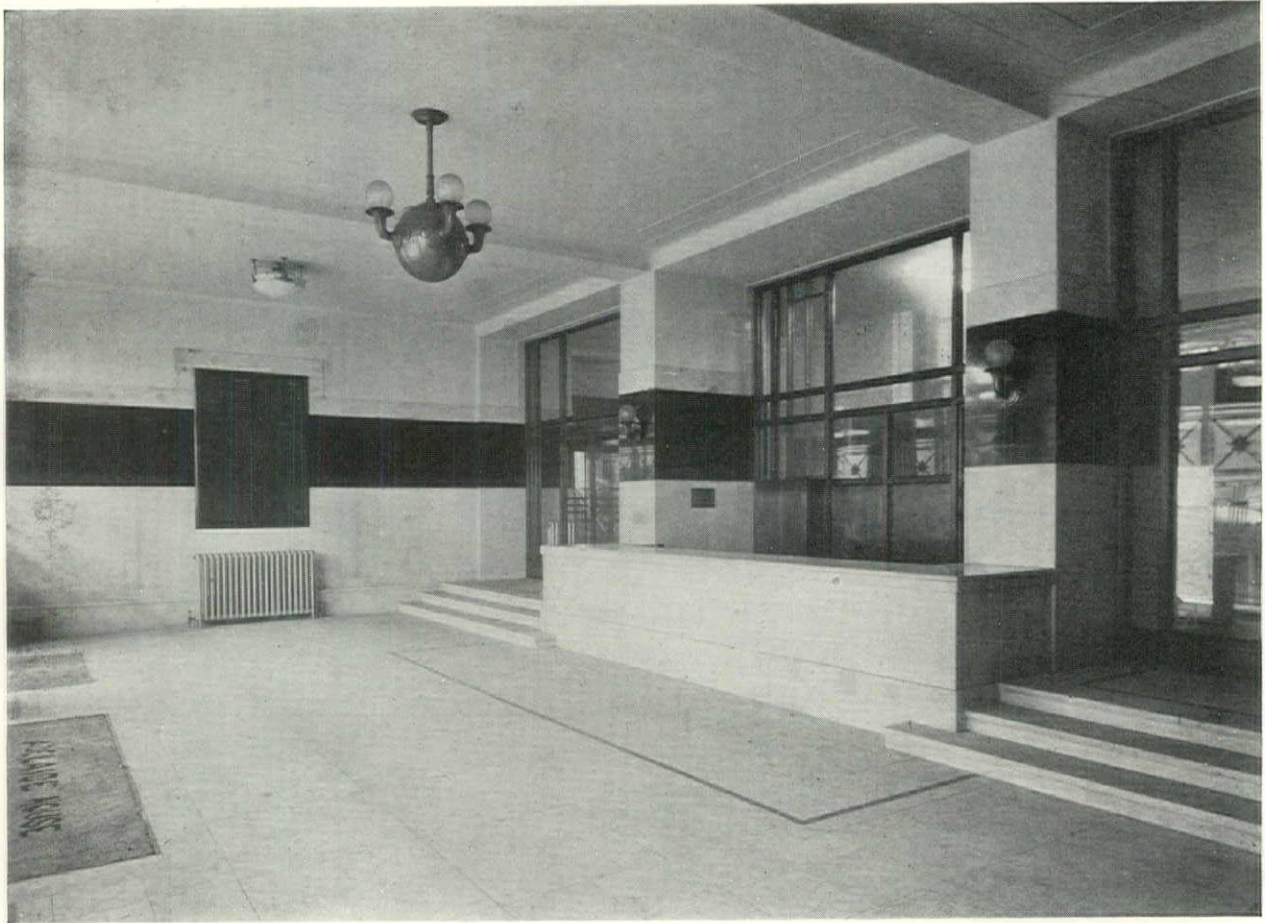
If Britannic House is personal, Adelaide House is impersonal. That is not to say that anyone seeing it would not at once attribute it to Sir John Burnet, but the approach to the problem is impersonal. Here are certain definite requirements; here is a great city; this is the twentieth century; these are the materials at my disposal;—and



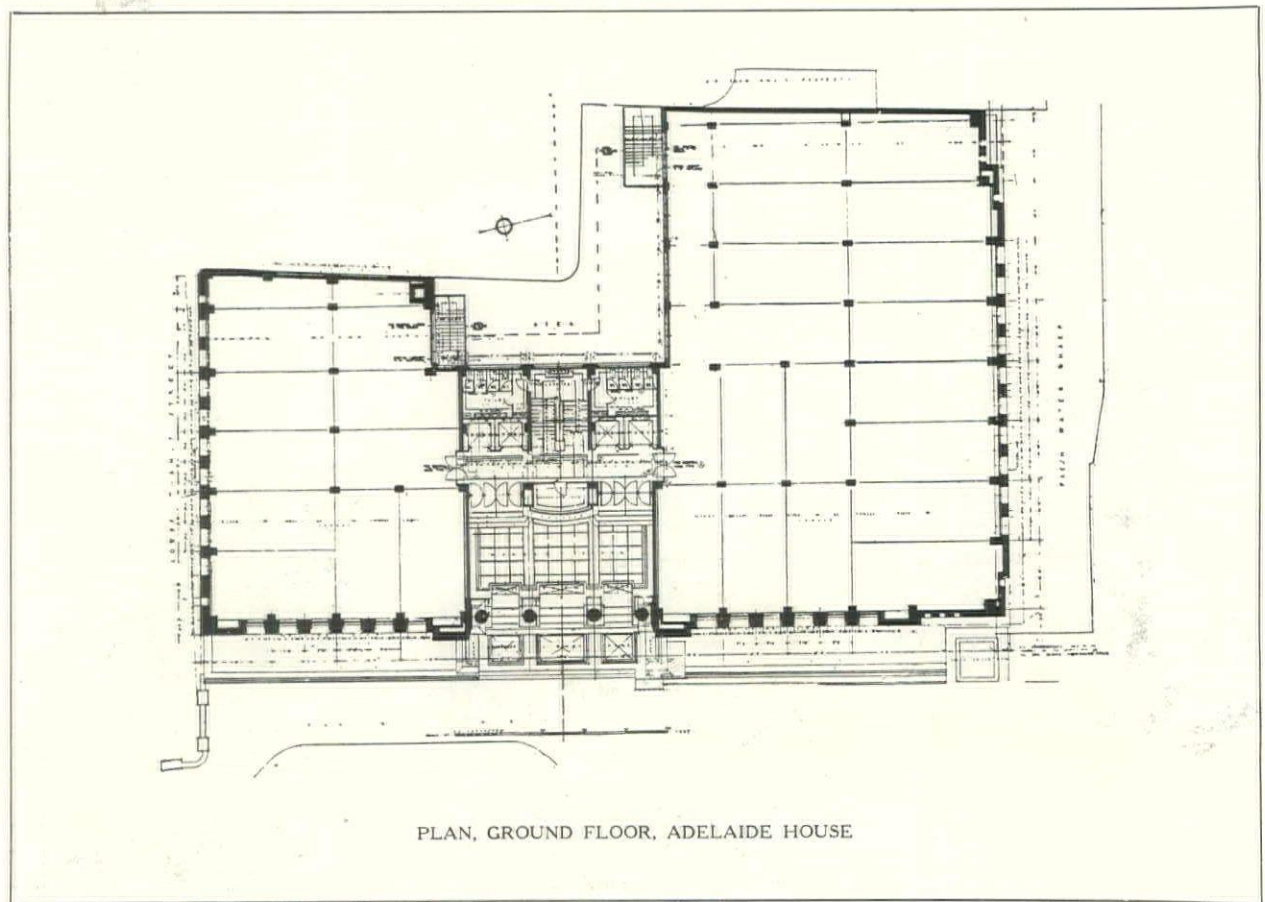
Stairway, Britannic House



Entrance, Britannic House



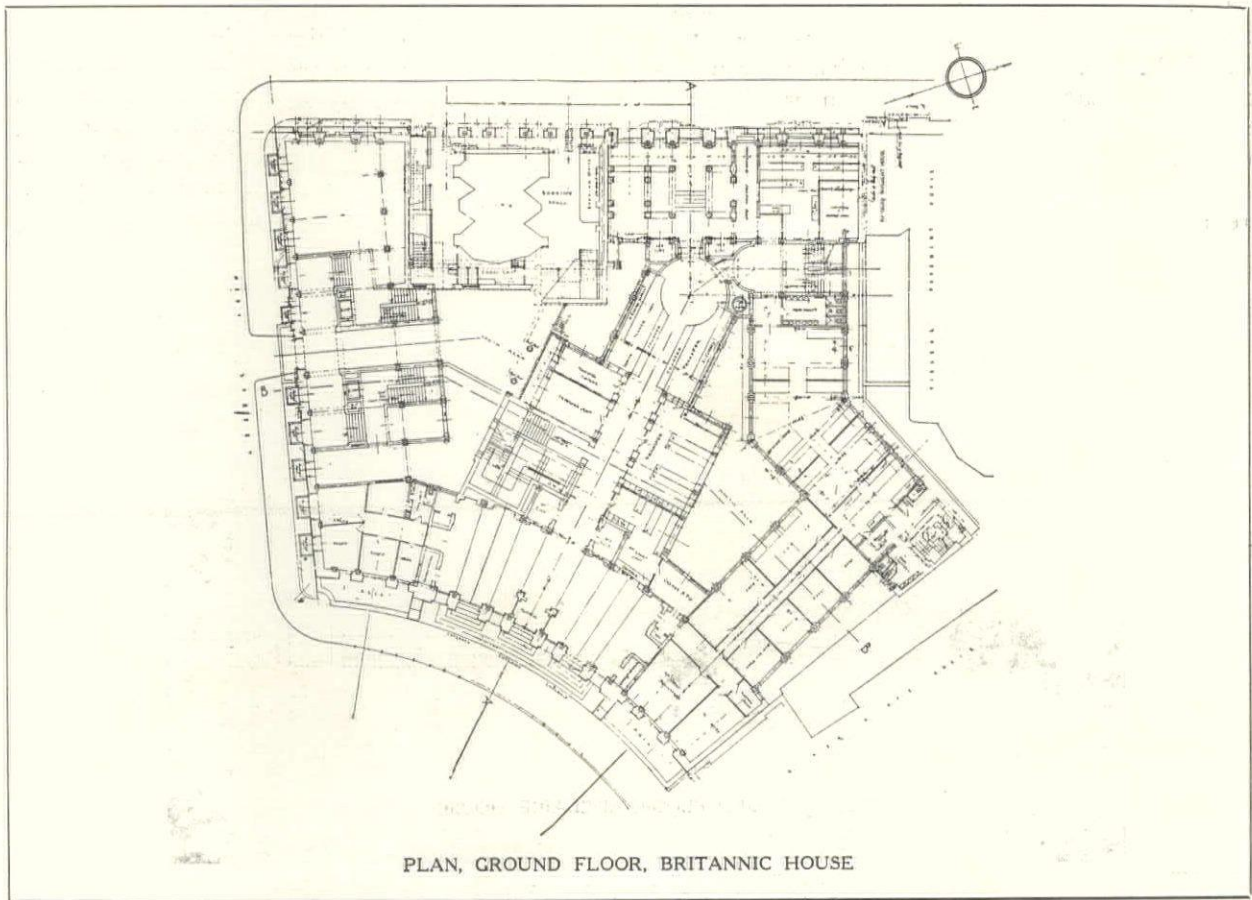
LOBBY, ADELAIDE HOUSE



PLAN, GROUND FLOOR, ADELAIDE HOUSE



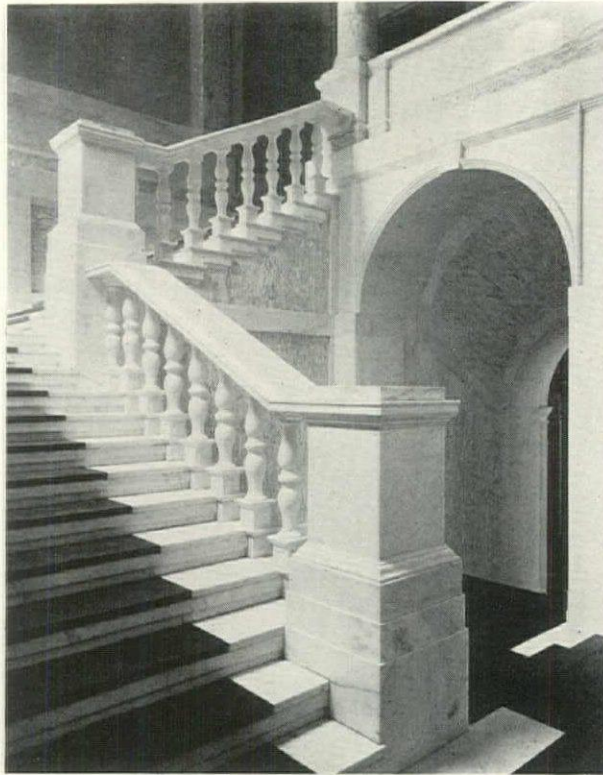
LOBBY, BRITANNIC HOUSE



PLAN, GROUND FLOOR, BRITANNIC HOUSE

Adelaide House is the logical result. If there is romance about the building, and some may certainly find it, it is the romance that certain painters and etchers find in the pulsating activity of iron works, in the starkness of a great ship in its dock, in the disorder of a pit head, but it is not the romance evoked by suggestions of the past. If there is beauty,—and that there almost surely is,—it is the beauty that is found in the motor car, in a piece of smoothly running machinery, in a race horse,—wherever, indeed, there is a balanced synthesis of form, purpose and material. And moreover, there is grandeur, there is simplicity.

If you fail to like it, if its crudeness offends you, then you are out of touch with the century in which you live. "Love me, love my dog" is an adage which might here be recast: "Love my age, love Adelaide House." But it is expressive of the best of the age, for there is nothing vulgar about Adelaide House, and vulgarity is a besetting sin of the age. Adelaide House has its counterpart in other art forms, in music, in painting, and in sculpture, and wherever they are met they are somewhat startling and are likely to frighten the timid and to distress others, but to the robust they are invigorating. It is as yet impossible to prophesy

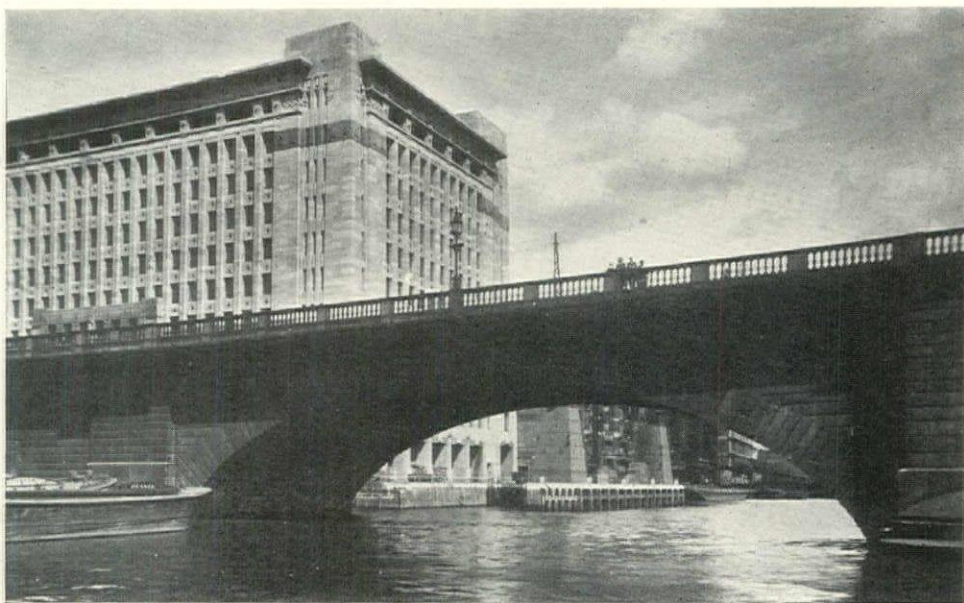


Stairway, Britannic House

how the future of architecture will develop, but there is a future along the lines of Adelaide House; there is no future along the lines of Britannic House, which must ever remain an entirely personal utterance.

Despite the novelty of Adelaide House, it harmonizes with its neighbors, and this is because the parts are small and are kept in scale with the human form. It impresses without overawing, and seen from London Bridge it has a truly majestic dignity which will be enhanced when the crowning upper story takes its place above the cornice. The building is steel-framed; the lower story is faced with granite and stone.

Perhaps after all it is incorrect to say that these two new buildings have no common quality, for they at least have this:—they are both alive. Neither of them is a *pastiche*; in neither is there any sign of that febrile searching in books and portfolios for motifs which unfortunately distinguishes so much contemporary architecture just now, and this is because both buildings are the work of men who are fertile with ideas. If we feel that one will have a greater influence than the other, it is but the expression of a personal opinion which time will either confirm or contradict. Both Britannic House and Adelaide House are English architectural achievements.



Adelaide House, from the Thames

St. James' Church, Winsted, Conn.

COFFIN & COFFIN, Architects

By KENNETH FORD COFFIN

"What an image of peace and rest
Is this little church among the graves!
The wounded spirit, the heart oppressed,
Here may find the repose it craves."

WHERE is "this little church" which Longfellow so beautifully describes? For the benefit of those who are not students of the immortal poet, the answer is,—in England. But this is not surprising, for even the English admit that all Christendom is envious of the beauty and antiquity of their parish churches, an admission not in the least exaggerated in spite of the ravages of time and civil war, religious differences, and unsympathetic remodeling. Among the justly envious the United States deserves a front rank position, which in less critical moments is attributed to the adolescent stage of our national growth. Although we are undoubtedly far ahead of these early church builders in general taste and refinement, as measured by the scope of arts and sciences, we are their inferiors in "the application of architecture to its highest purpose;" in church architecture we have much to learn.

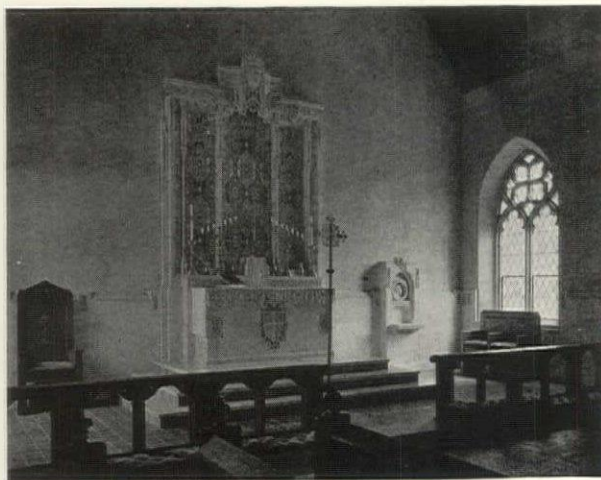
Of all the various Protestant denominations in this country, the Episcopal Church has the greatest heritage from England, and it is accordingly logical for this body to turn there for architectural inspiration and example. Winsted is an old New England town, and at first thought it might seem appropriate to follow there the best church precedent we have,—that of our colonist forefathers. Their places of worship were, from necessity and choice, boldly different from those of their English ancestors, and admirably adapted to new and varied conditions. But the fierce flames of bigotry, which changed even the architecture during that period, no longer burn to effect such contrasts in modern church design here in America.

Furthermore, Winsted nestles among rugged foothills, far wilder and more primitive than their serene and majestic neighbors, the Berkshires, an environment which suggests the use of stone. A so-called Colonial church would surely be too sophisticated for this town, famous for extremes of nature, with its six-legged cows and its mushrooms as large as cabbages, if one can believe the newspapers. Along with the other freaks of nature which give Winsted her place

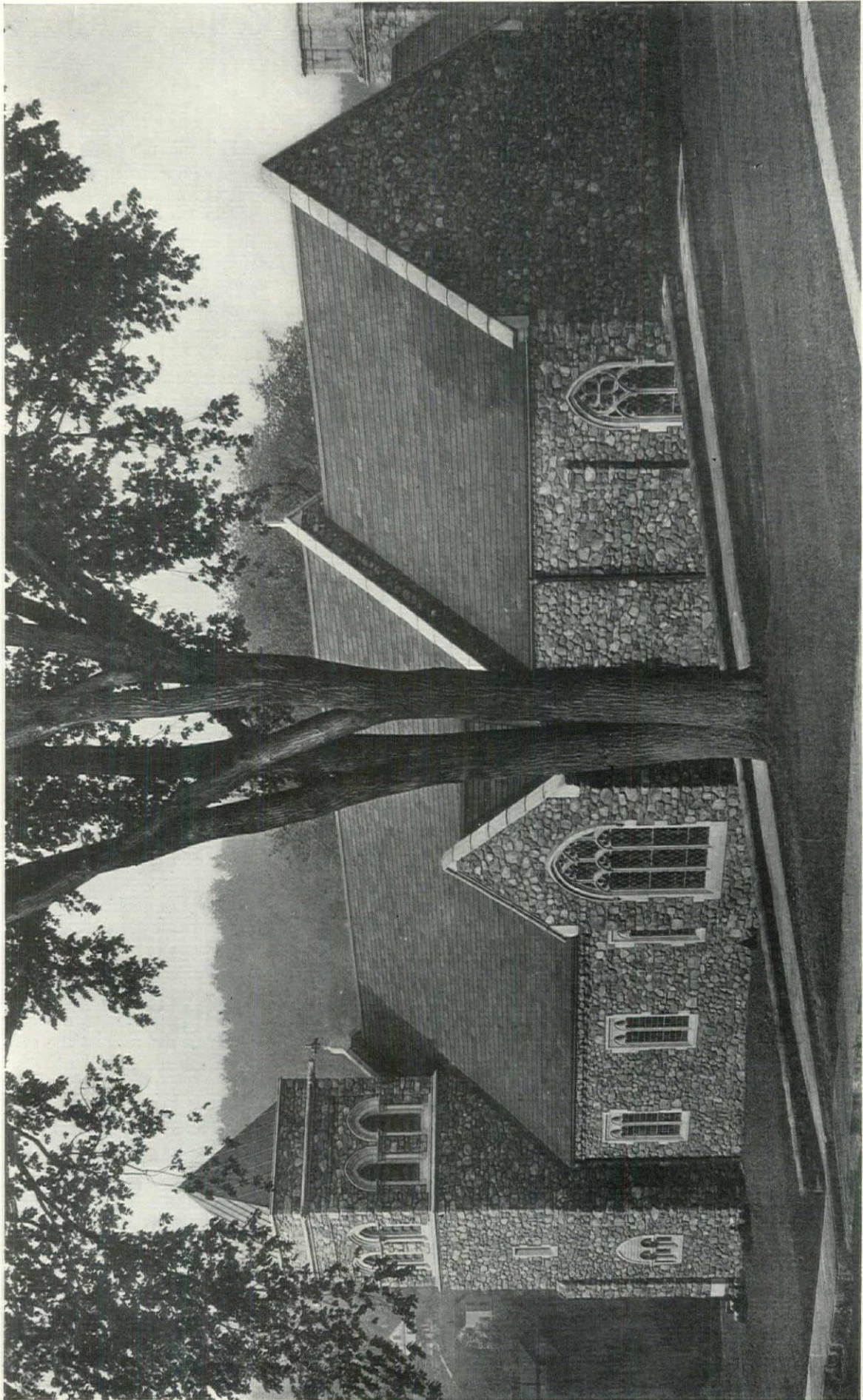
in the sun is the local field stone, used primarily for pasture fences, and undoubtedly the least desirable of all building stones. It is a large, rounded, black cobble, with little variation in tone or texture, and as hard as flint. Use of this black sheep among building materials was carefully avoided in the original specifications for the new church, colorful and stratified granite having been chosen instead. Church building funds, however, have their limits, and in this case the limit was reached before the more expensive material could be included. White marble and red sandstone were available in this vicinity, but both of these were obviously unsuitable for an informal building of the type proposed. A blank stone wall had literally been reached and, as the least of these evils, field stone was finally used. The flintlike character of this cobble stone recalls to memory the numerous parish churches in the southern counties of England, some even within sight of the portals of Canterbury, built of small, black flints, which have successfully defied time and weather. The contemplation of these charming English churches encouraged the use of the local field stone, and the design of the building was largely governed by a desire to be in sympathy with use of this unusual material.

Instead of using merely one style or type of ecclesiastical architecture, several related styles were adapted with results suggesting the English parish churches which recall the various periods of history during which they were built. Departure from use of one style or period throughout a church is not favored by architectural purists, but in this cosmopolitan era such liberties are sometimes justified if unity is the result. From the simple Norman tower to the more elaborate Late Gothic chancel the progression in architectural style was intended to be gradual and appropriate to the function of each part of the plan of the church.

Possession of a corner plot determined the general shape and distribution of the elements of the plan, but the traditional method of orientation for an English church, with the chancel at the east end, was disregarded. The modification of ancient and established laws, changes in the form of service, and expansion of functions to meet modern demands, while often the cause of much dissension

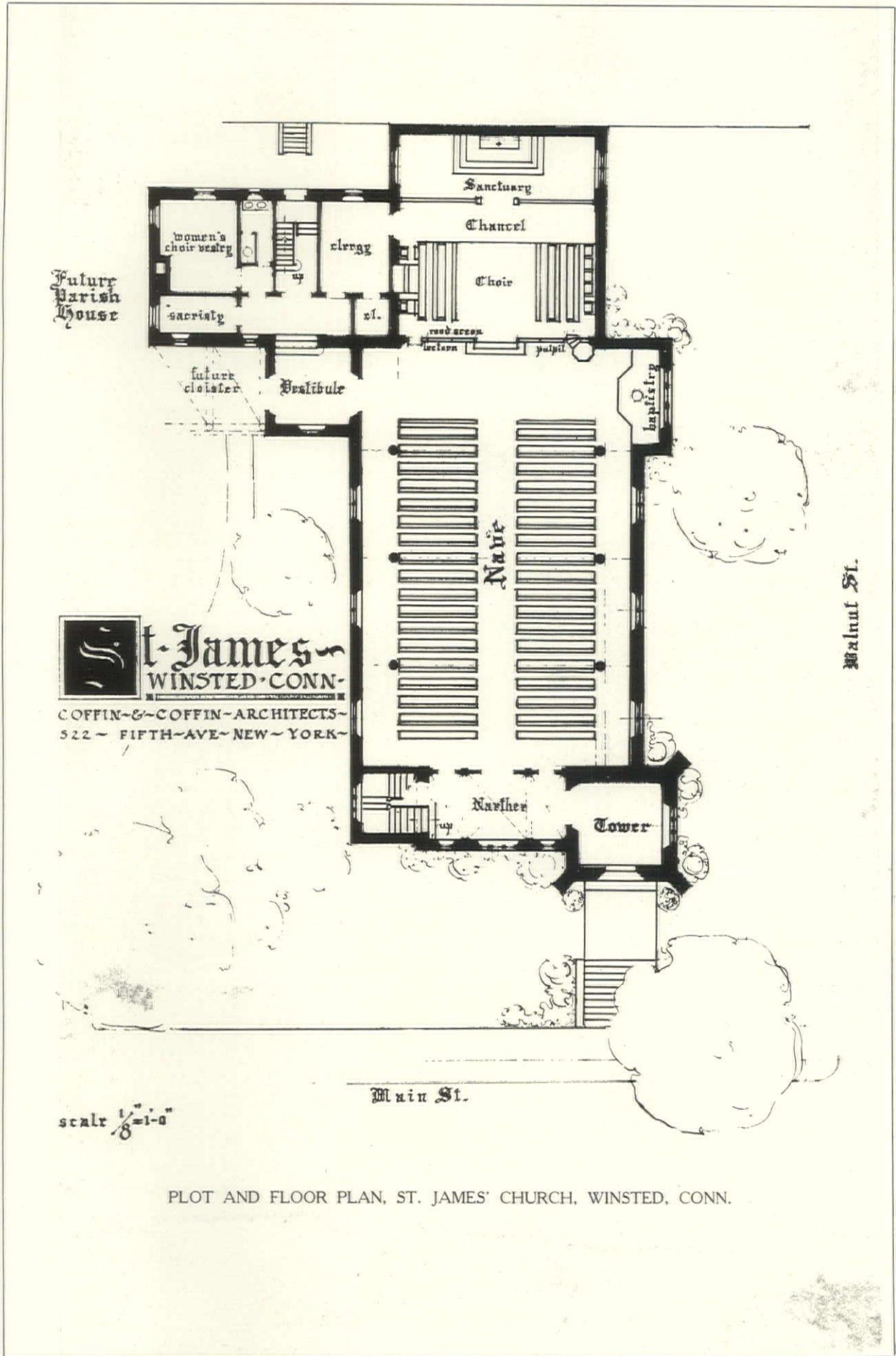


Sanctuary and Altar, St. James' Church, Winsted, Conn.



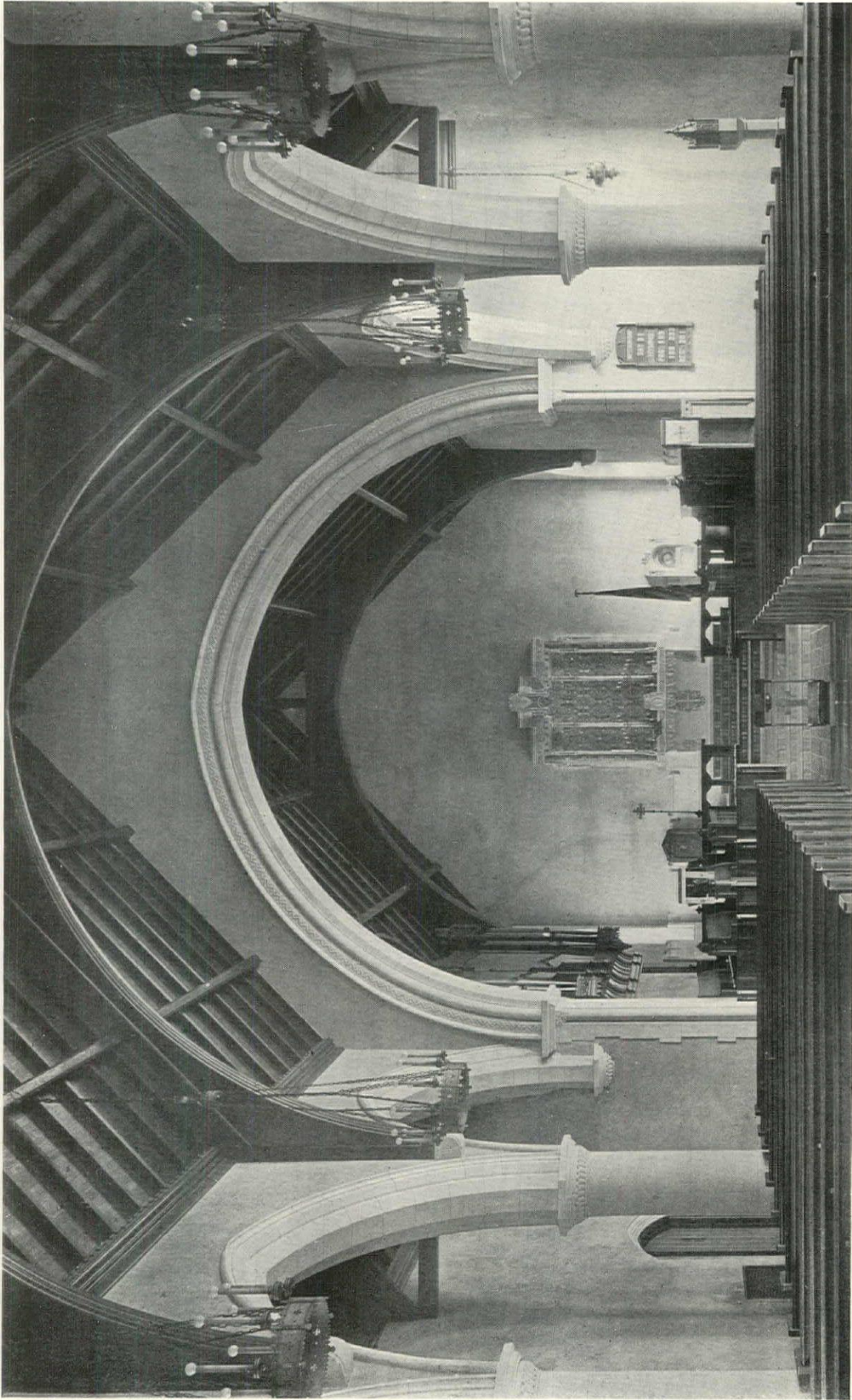
Photos. Samuel H. Gotscho

ST. JAMES' CHURCH, WINSTED, CONN.
COFFIN & COFFIN, ARCHITECTS

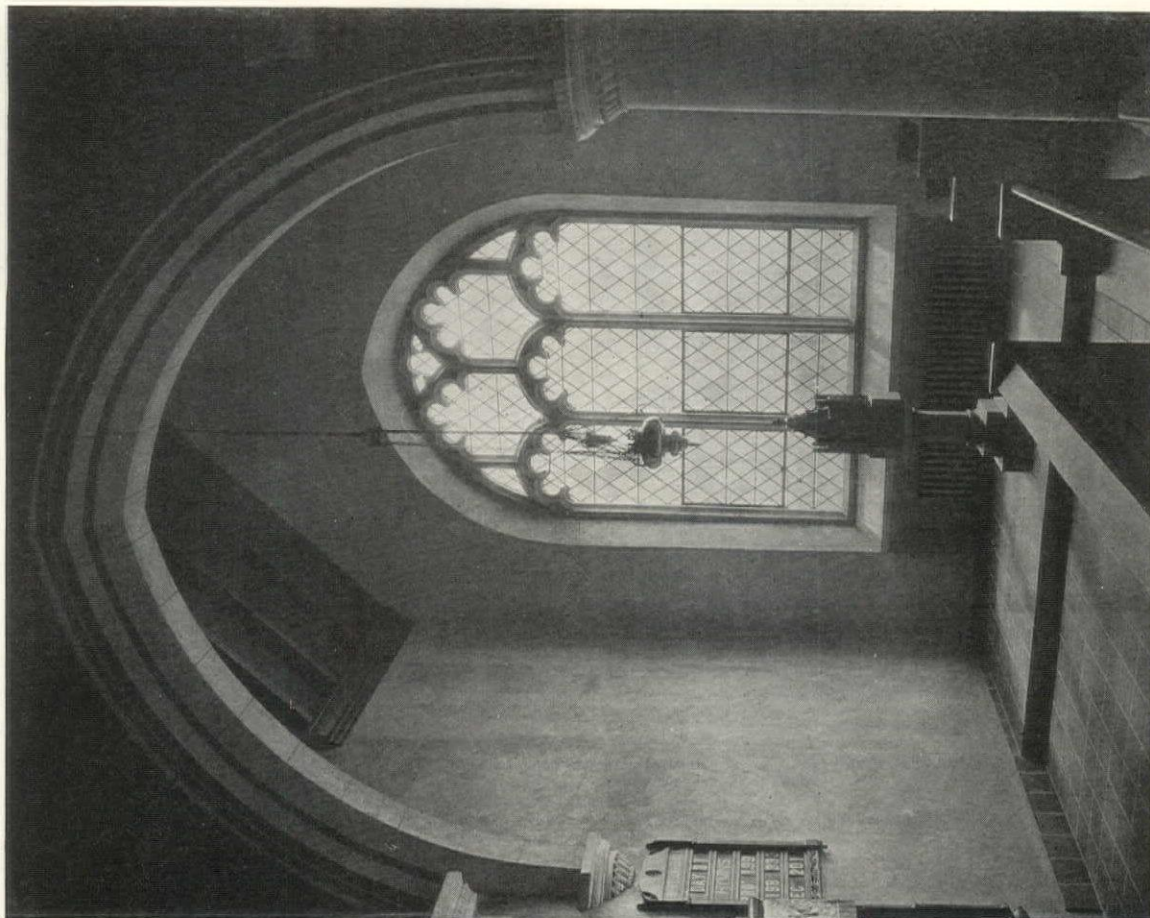


St. James
WINSTED, CONN.
 COFFIN & COFFIN ARCHITECTS
 522 - FIFTH AVE - NEW YORK

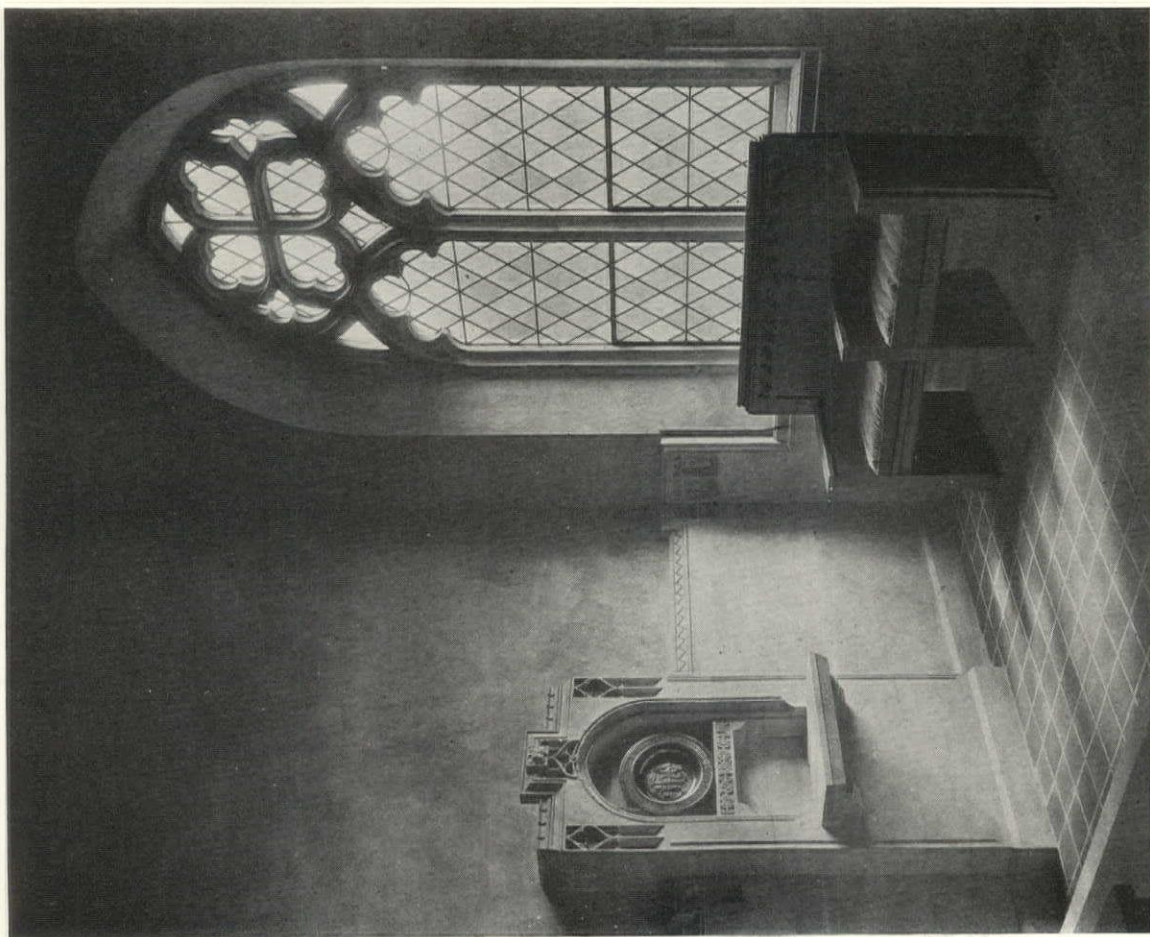
PLOT AND FLOOR PLAN, ST. JAMES' CHURCH, WINSTED, CONN.



NAVE AND CHOIR, ST. JAMES' CHURCH, WINSTED, CONN.
COFFIN & COFFIN, ARCHITECTS



THE BAPTISTRY



THE CREDENCE AND SEDILIA

DETAILS, ST. JAMES' CHURCH, WINSTED, CONN.
COFFIN & COFFIN, ARCHITECTS

and debate among theologians, at least prevent too accurate reproduction of the old buildings and stimulate originality in design. A column or pier which is gratefully welcomed by drowsy and apathetic parishioners is too often the cause of much annoyance and dissatisfaction to their more attentive brethren. These obstructions may be avoided by using a long, narrow nave or one short and wide, but the former plan is usually impractical for good acoustics, and the latter a handicap to both beautiful and economical design. To overcome these objections in the new St. James' Church, and at the same time to create a resemblance to the column and arch construction customary in the English type, the narrow side aisles were arranged without seats, and for circulation only.

The costly clerestory, however, was omitted for the sake of economy and as an aid in eliminating damp walls, but of course at the sacrifice of that atmosphere which contributes so much to the charm of old structures. The heavy columns with their slightly pointed arches springing from them are similar to those used in the transitional period between the Late Norman and Early Gothic, and were not used merely for effect but serve a definite structural purpose. They shorten the span of the oak

roof trusses, and take the concentrated load, while the exterior walls receive their thrust and perform the same work as the picturesque flying buttresses. By employing this simple form of construction to meet practical requirements, a resemblance to the interiors of the old churches was maintained though not duplicated. Omission of the clerestory suggests a dark nave, but here the windows on the narrow side aisles give ample light without destroying that mystery in the depth of shade and shadow so needed.

The parishioners interested themselves in the construction and furnishing of this church in somewhat the same spirit of sacrifice which accompanied the furnishings of the old structures. The altar, the colored faience tiles in the chancel floor, the organ, the stained glass windows, and innumerable other fittings were generously contributed by them. Generosity seems customary in Winsted church circles, however, for a story is current there to the effect that one of their clergymen was presented with a new pair of trousers by the ladies of the Home and Foreign Missionary Society. In his address of thanks he undoubtedly alluded to Psalm 139:2:

"Thou knowest my downsitting and mine uprising:
Thou understandest my thought afar off."



View from Northwest, St. James' Church, Winsted, Conn.

George Harrison Phelps, Inc., Building, Detroit

SMITH, HINCHMAN & GRYLLS, Architects

AN office building and studio, located at the northwest corner of East Jefferson and Joseph Campau Avenues, is the new home of George Harrison Phelps, Inc. The new structure is most unusual in character and an innovation for Detroit. New York and Chicago have private office buildings of a similar nature, which have been designed for the use of individuals whose professional needs require considerable space for their staffs of assistants. Heretofore in Detroit such needs have been met by remodeling large residences in districts where business expansion has altered the neighborhoods, or by using ordinary office spaces in new or old buildings,—spaces sometimes adequate, but often not.

In planning the new building for George Harrison Phelps, Inc., it was desired to develop a structure suitable in every respect for the needs of a highly departmentalized advertising organization of 106

people, and, in addition, to produce a building distinctive, interesting and beautiful,—a structure that would compel attention, cause admiration, and serve in a dignified way as the home of the organization. That was the problem presented to the architects, Smith, Hinchman & Grylls. The usual solution would have been a three-story, box-like structure, punched full of holes for the various windows, topped with or without the usual cornice, etc., and the result would have been the ordinary building which may be seen on any business street in any city.

With an owner desirous of avoiding building such a structure, and more than willing to assist in developing the architects' suggestions, the result shown in the accompanying illustrations was attained. The building is set back from the Jefferson Avenue street line about 30 feet, on a brick-walled terrace. This allows space for planting, and removes the offices



Reception Room, George Harrison Phelps, Inc. Building

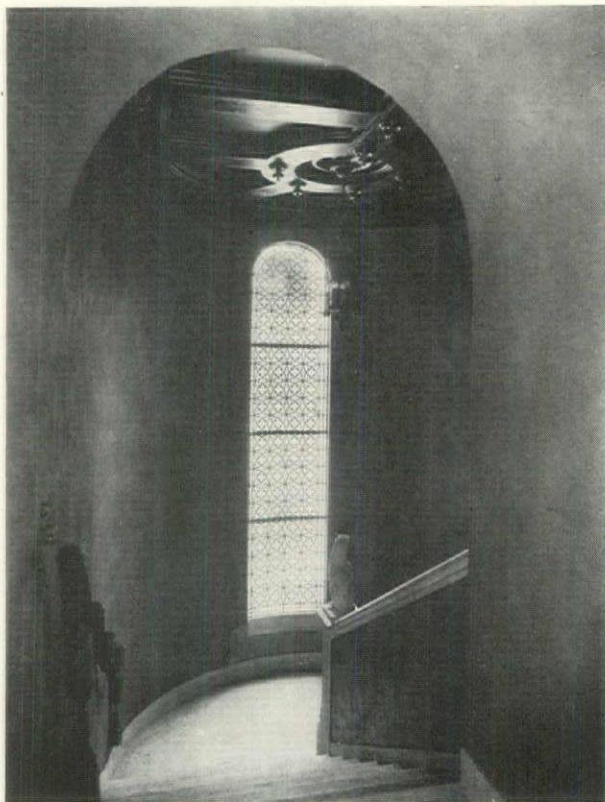
from the noises of Jefferson Avenue. Rising behind the trees is a facade of brick and stone, not a flat, box-like face, but a facade irregular in outline, that expresses the plan within. The architectural character of the design is a modified form of that brick architecture found in northern Italy, dating from the time of the middle ages and the early Renaissance. A well marked door and terrace of stone indicate the public entrance. To the left is a semi-circular bay, where the stair tower shows itself. To the right, extending up through the second and third stories, is a double-arched opening with a column of marble forming a balcony and great window for Mr. Phelps' studio. These three features on the exterior are set off by the smaller office windows, which have been grouped to avoid the monotony of regular spacing. On the Joseph Campau Avenue side various smaller architectural features of interest are apparent.

The walls are of brick varied in color, soft in texture, and laid in pairs to produce the effect of a long Roman brick, with mortar joints 1 inch thick. The stone trim is likewise varied in color and texture to harmonize. The roof is of tile, in shingle form, hand-made, with a variety of color and exposures. The windows are fitted with metal casements with leaded glass. The general structural work is fireproof, with reinforced concrete frame and floors. Mechanical equipment and facilities are of the best and include oil-burning steam heating plant and a well arranged private telephone system.

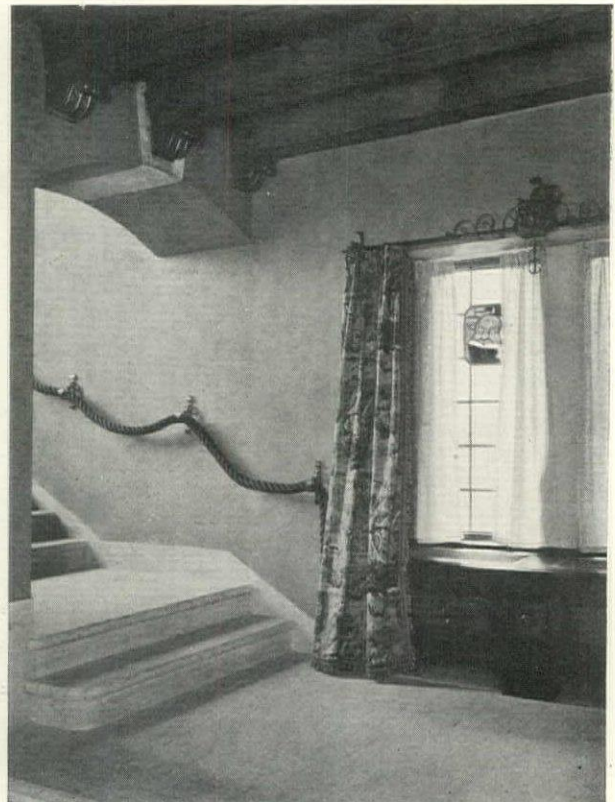
On entering the building through the vestibule, one steps into a public reception room, finished with travertine floors, antique plaster walls, and a beamed ceiling treated with polychrome stencils. This room

provides for an information, telephone and telegraph desk in an alcove and a waiting space for visitors. It gives access to the business offices on the first floor and to a fine stairway leading to the studio and second-story offices. This stair hall is similar to the reception room in materials used, except for the ceiling, which is of coffered wood panels with applied color. At the head of the stairway is a library and office for Mr. Phelps' secretary, as an anteroom to the studio, the room which by nature of its use, location and size gives to the exterior a dominating feature. It is two stories high, having a barrel-vaulted ceiling, with penetrations along the sides, and decorated in full color. The walls, almost unbroken by windows, because of the great window looking out over the balcony, offer excellent spaces for the fine old furniture and wall fabrics belonging to Mr. Phelps. At the end opposite the great window there is an old Italian stone fireplace, its design in keeping with the style and scale of the room.

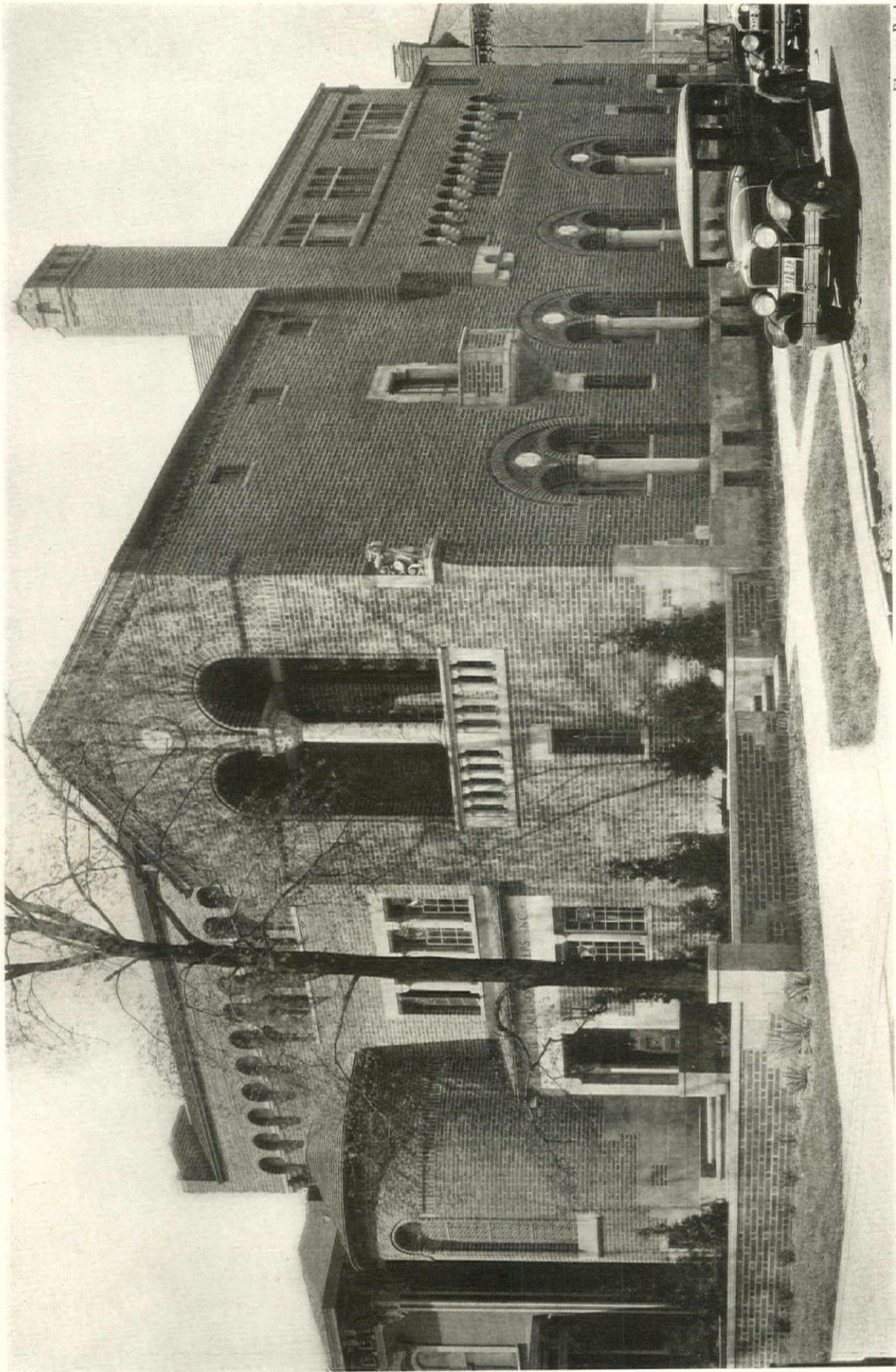
In addition to the special rooms just described, the first and second stories contain a dozen or more private offices for the various executives, with a mailing room and barber shop on the first floor and library and conference room with a kitchenette on the second floor. The third floor provides for the bookkeeping and clerical forces, vaults, the auditor, the dictaphone, and statistical departments. The basement has, besides the usual heating plant and store-rooms, a five-room apartment for the caretaker; and, most unusual, a regulation-sized squash court with dressing, locker, shower and rubbing rooms. In connection with these athletic facilities there is an open-air volley ball court at the rear of the building.



Stairway, from Second Floor



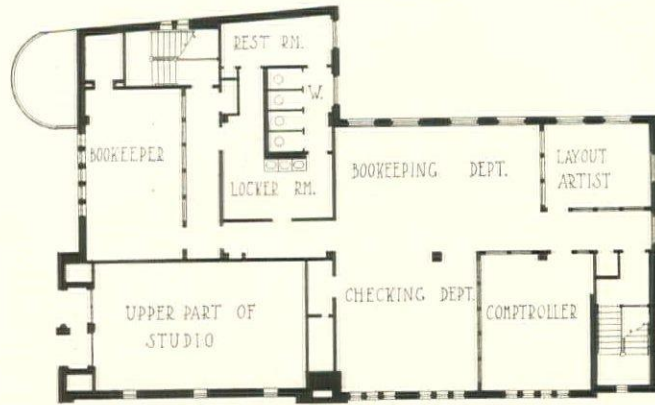
The Foot of the Stairway



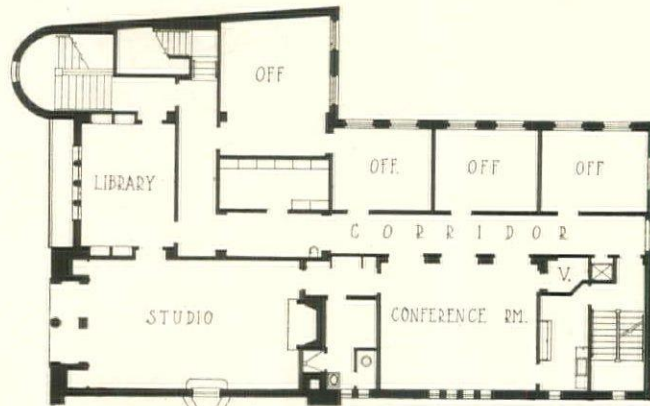
Plans on Back

GEORGE HARRISON PHELPS, INC., BUILDING, DETROIT
SMITH, HINCHMAN & GRYLLS, ARCHITECTS

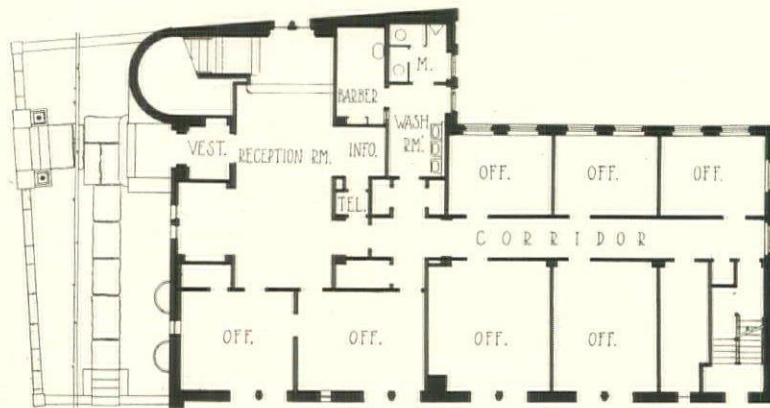
Photos, Thomas Ellison



THIRD FLOOR



SECOND FLOOR

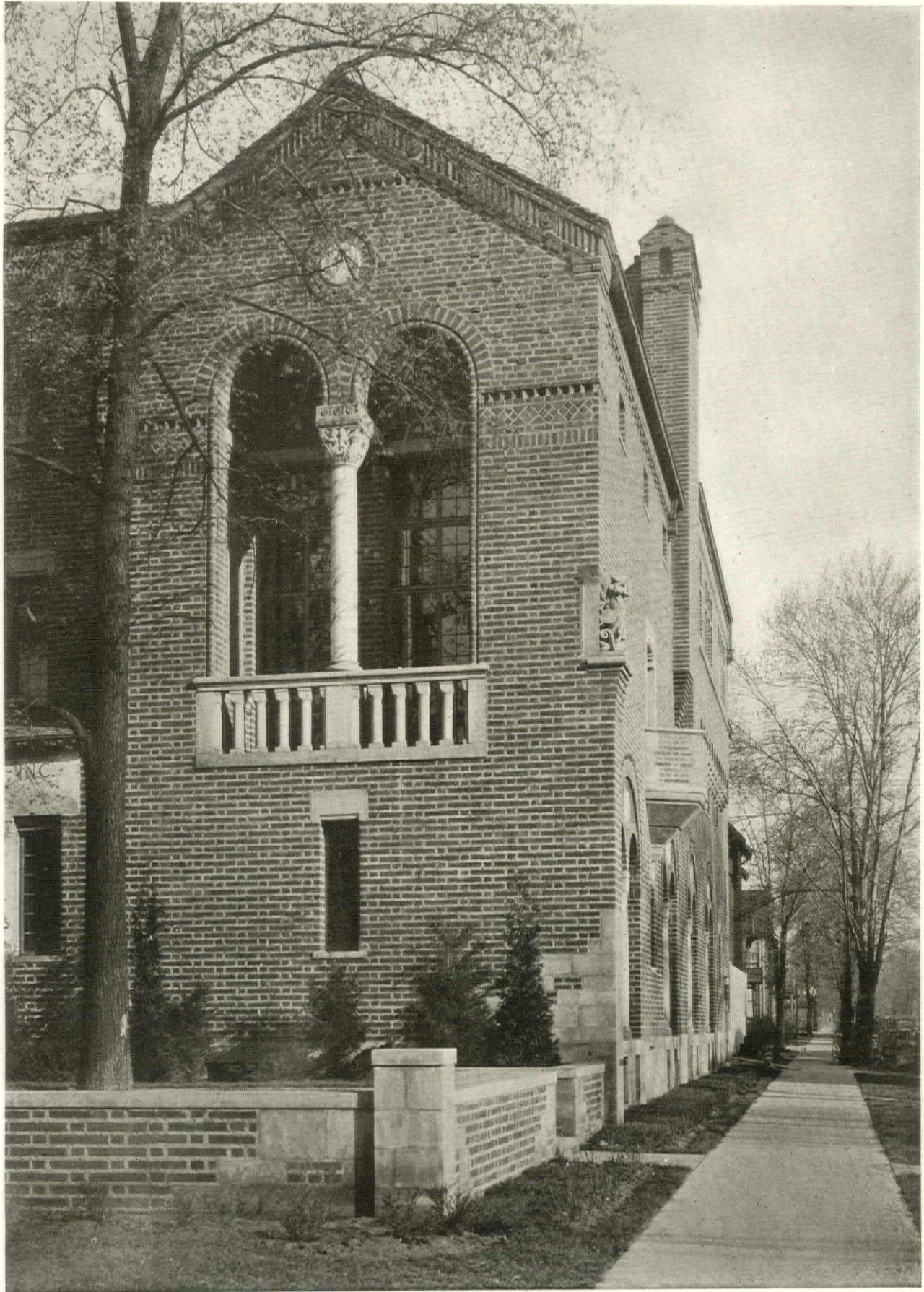


SCALE OF FEET
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FIRST FLOOR

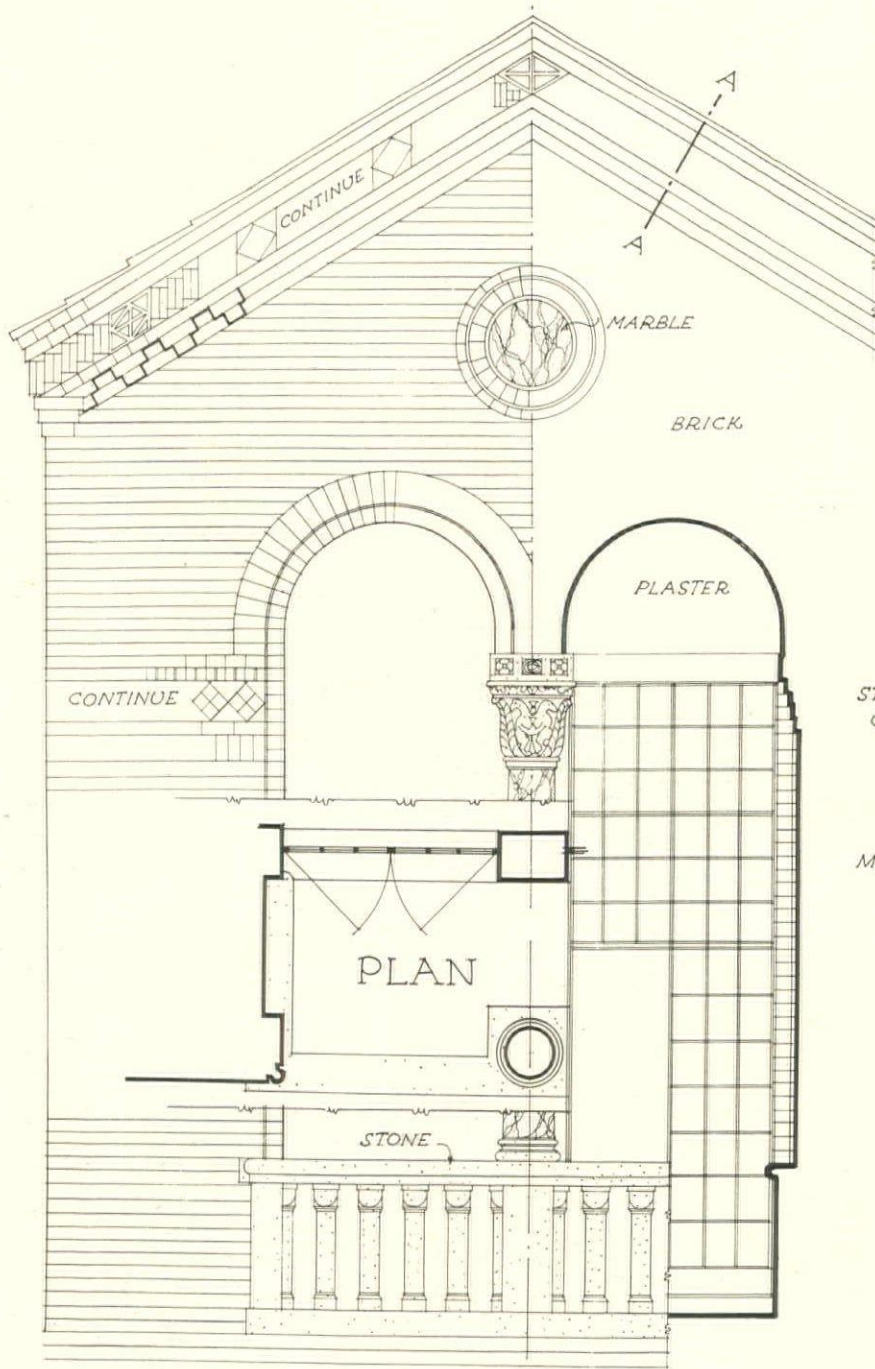
PLANS, GEORGE HARRISON PHELPS, INC., BUILDING, DETROIT

SMITH, HINCHMAN & GRYLLS, ARCHITECTS

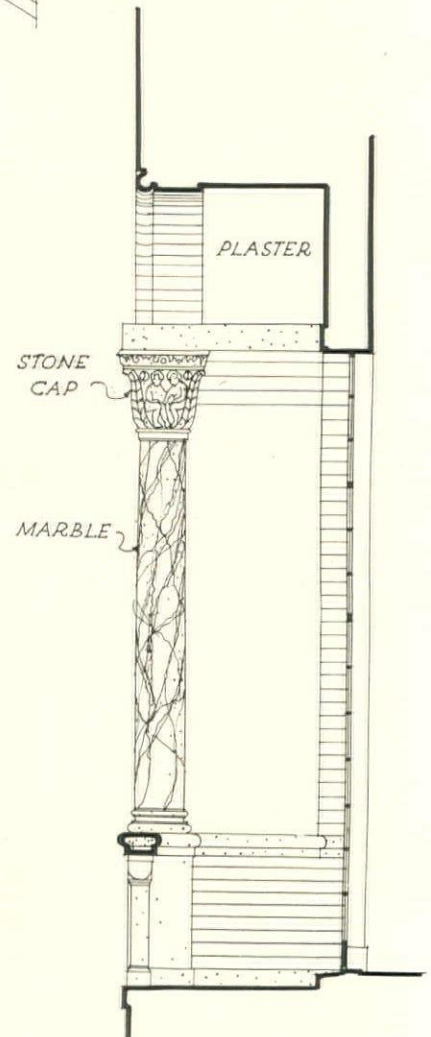


Measured Detail on Back

GEORGE HARRISON PHELPS, INC., BUILDING, DETROIT
SMITH, HINCHMAN & GRYLLS, ARCHITECTS



SECTION
A-A



SECTION

ELEVATION

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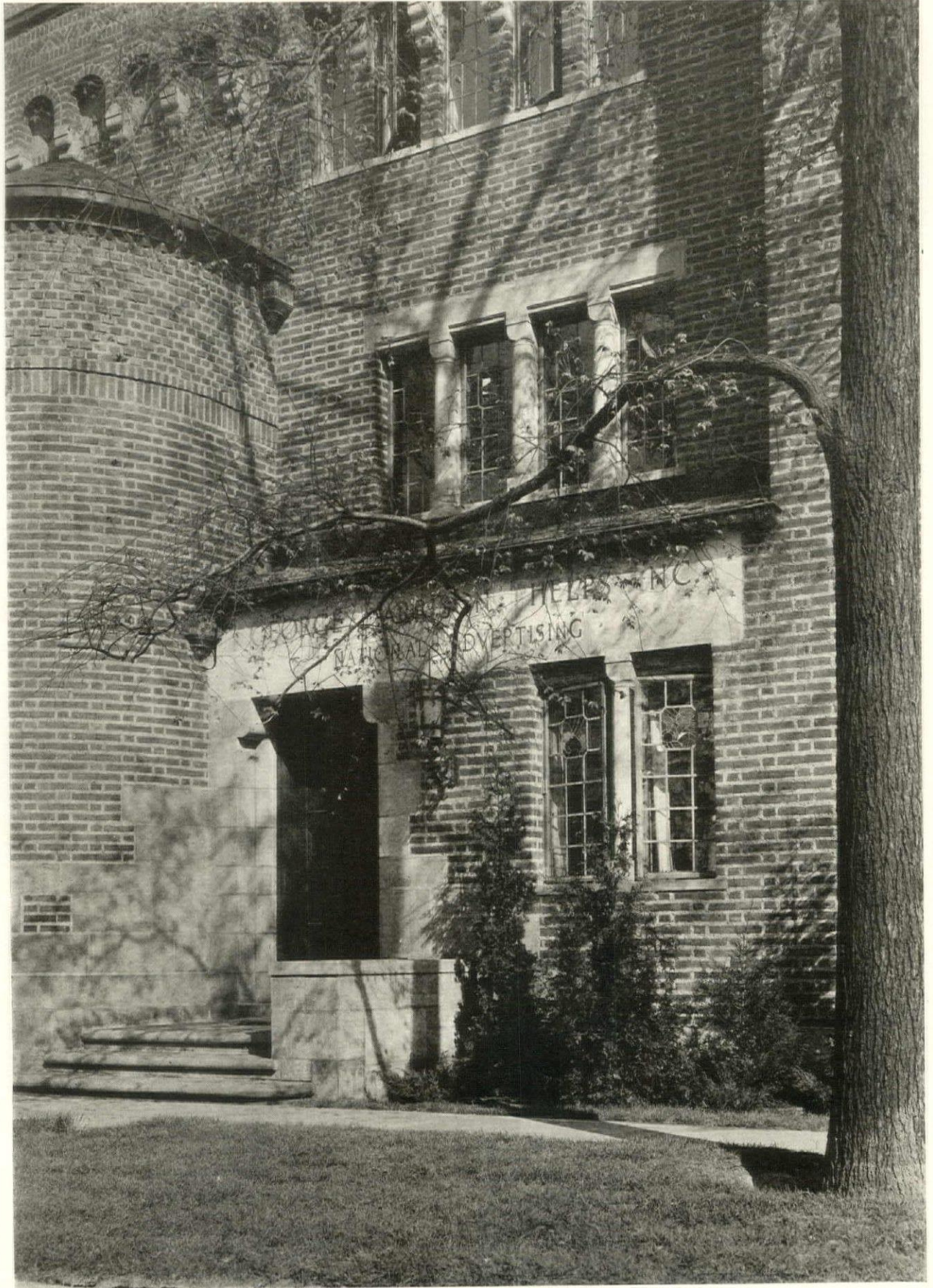
DETAILS OF BALCONY

SMITH, HINCHMAN & GRYLLS ARCHITECTS & ENGINEERS
DETROIT, MICHIGAN

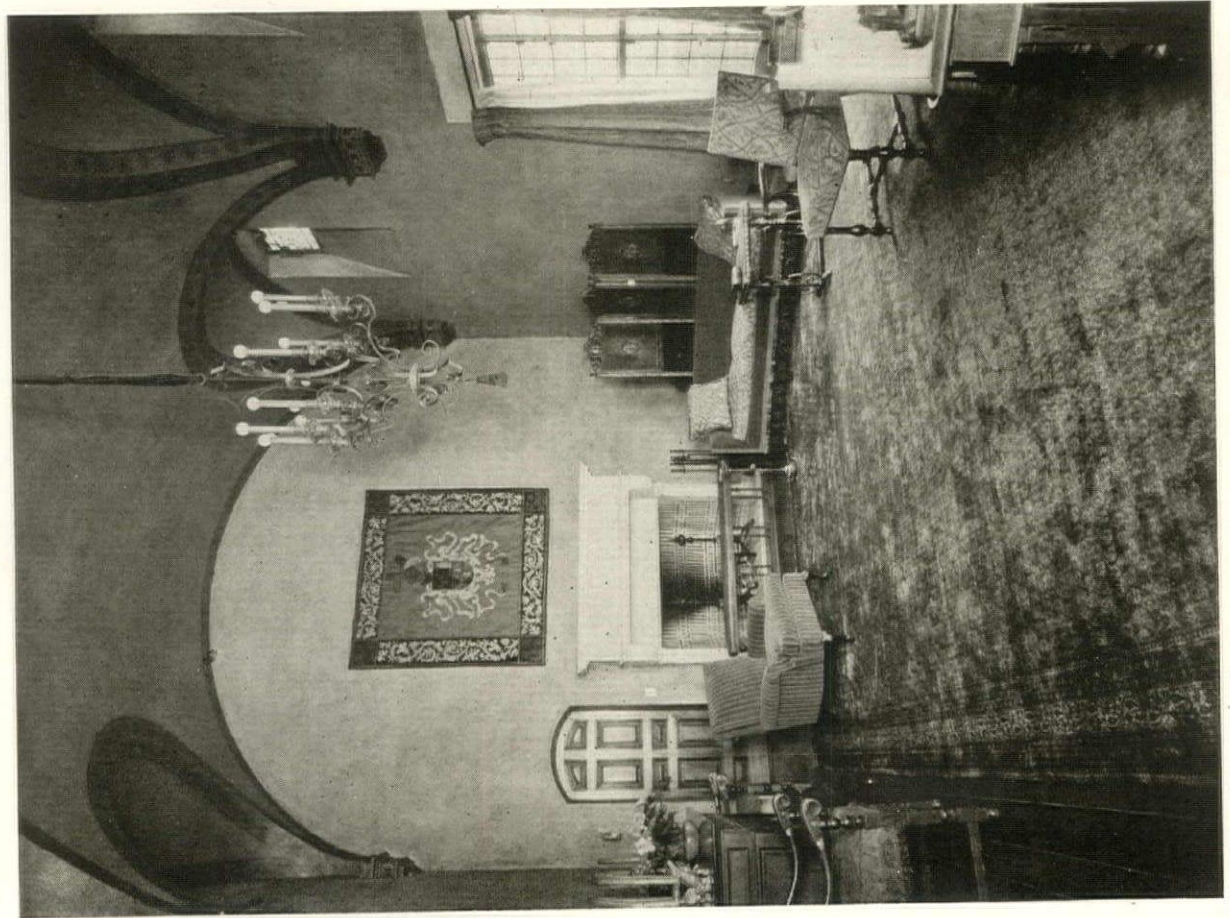
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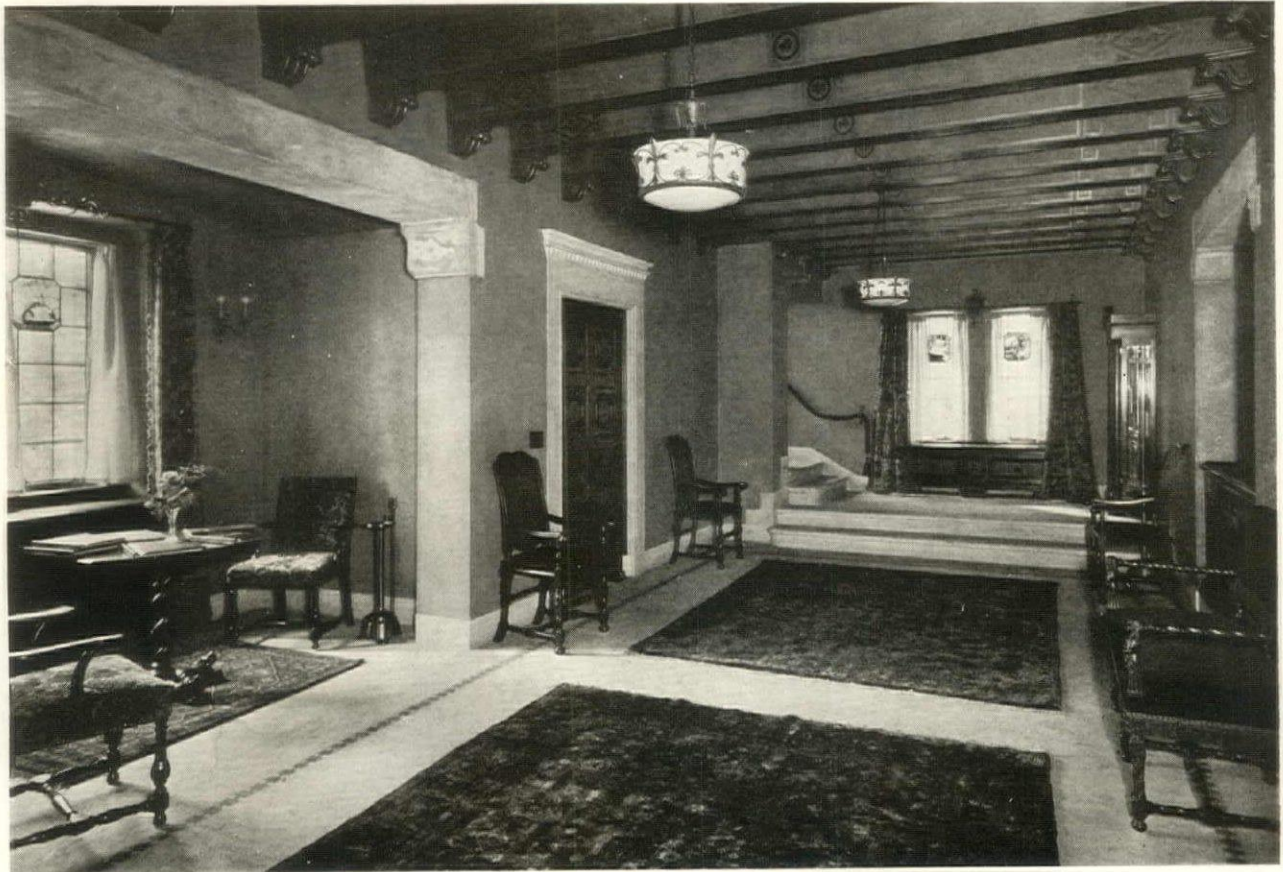
The ARCHITECTURAL FORUM DETAILS



THE ENTRANCE
GEORGE HARRISON PHELPS, INC., BUILDING, DETROIT
SMITH, HINCHMAN & GRYLLS, ARCHITECTS



TWO VIEWS OF MR. PHELPS' STUDIO
GEORGE HARRISON PHELPS, INC., BUILDING, DETROIT
SMITH, HINCHMAN & GRYLLS, ARCHITECTS



RECEPTION ROOM, LOOKING TOWARD STAIRWAY



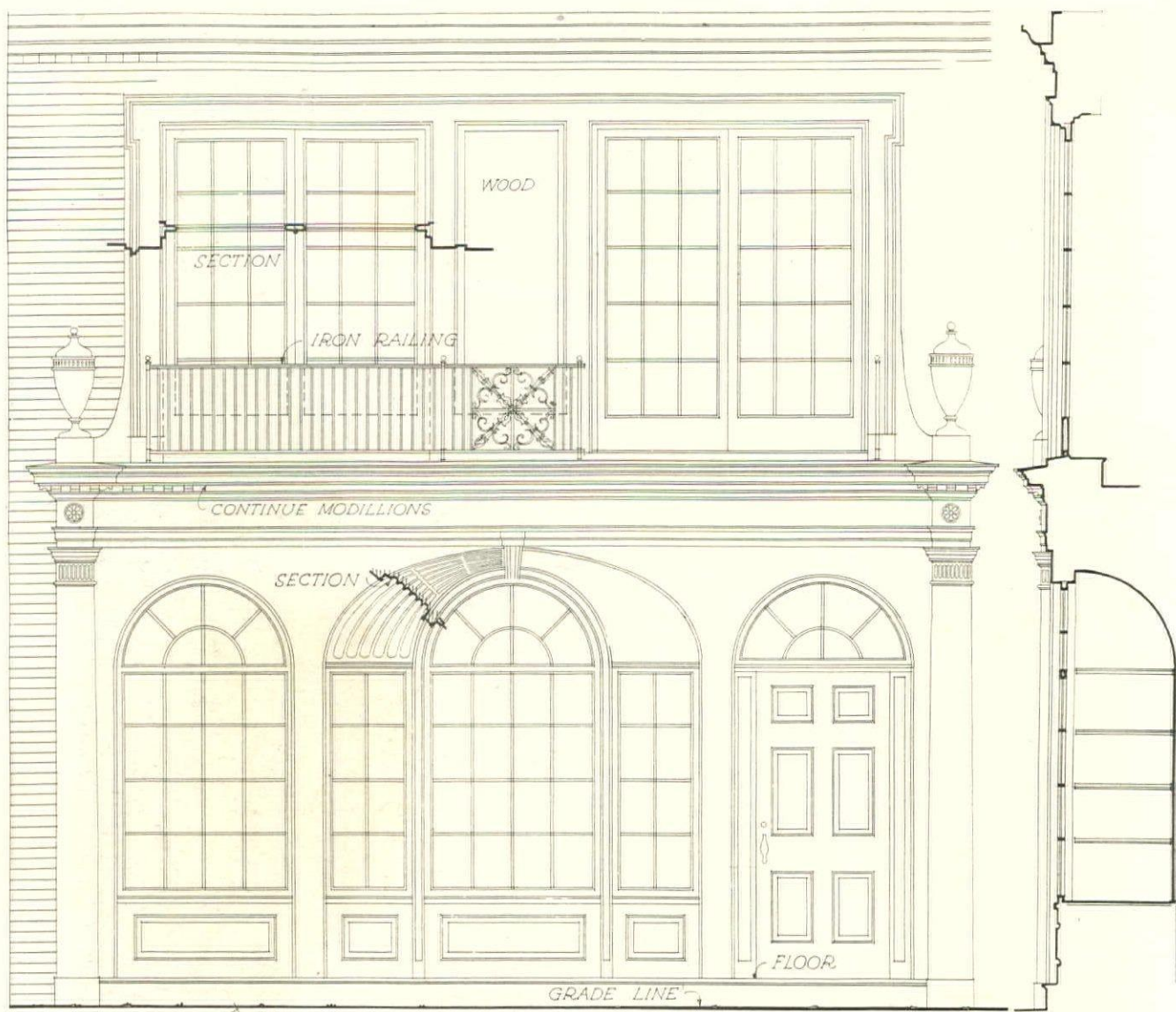
CONFERENCE ROOM
INTERIORS, GEORGE HARRISON PHELPS, INC., BUILDING, DETROIT
SMITH, HINCHMAN & GRYLLS, ARCHITECTS



Photos. Shaw Photo Service

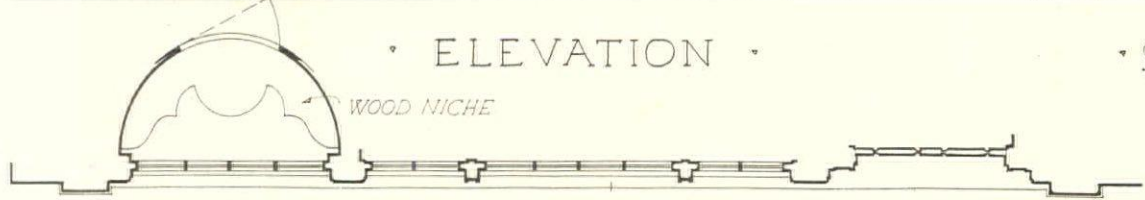
Measured Detail on Back

THE KING HOOPER SHOP, CHESTNUT STREET, BOSTON
DANA SOMES, ARCHITECT



• ELEVATION •

• SECTION •



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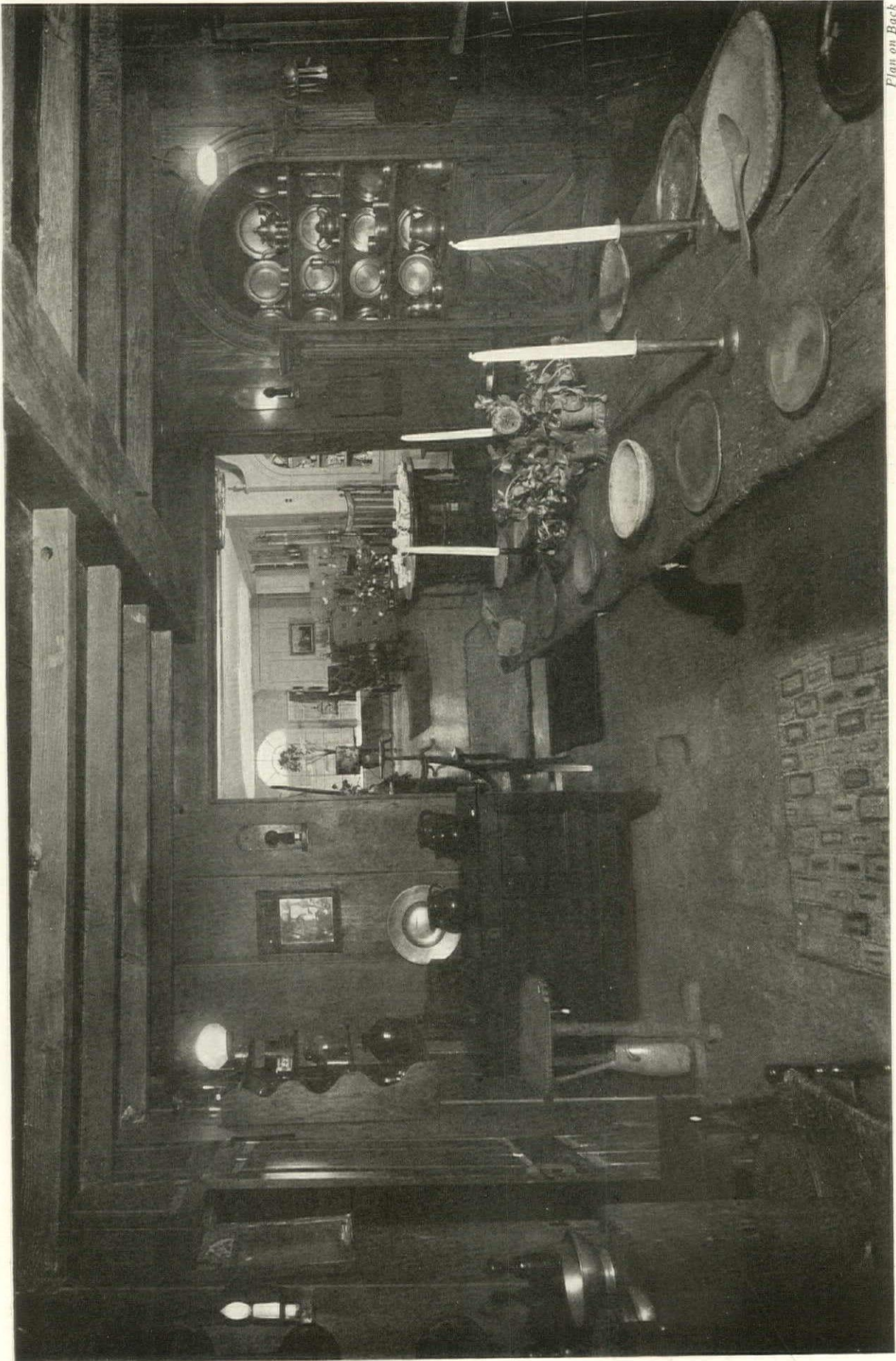
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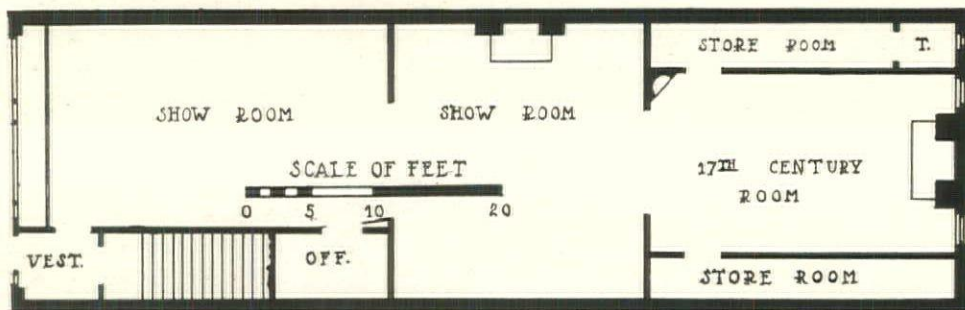
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The ARCHITECTURAL FORUM DETAILS



Plan on Back

SEVENTEENTH CENTURY ROOM, THE KING HOOPER SHOP, BOSTON
DANA SOMES, ARCHITECT



PLAN, KING HOOPER SHOP, BOSTON
DANA SOMES, ARCHITECT



MAIN SHOW ROOM



MIDDLE SHOW ROOM
INTERIORS, KING HOOPER SHOP, BOSTON
DANA SOMES, ARCHITECT

The Historic Cathedral and Library, Vincennes, Ind.

By THOMAS E. O'DONNELL

Assistant Professor of Architecture, University of Illinois

TWO of the most interesting historic buildings of the middle west are to be found in the once noted but now almost forgotten Indian-French town of Vincennes. The old St. Francis Xavier's Cathedral, now a parish church, and the Cathedral Library which adjoins it, are silent reminders of a period in American history when this community played an important part in the affairs of the old Northwest,—an early outpost of civilization.

Long before our forefathers reached the shores of this continent, the Wabash River was well known to the Indians, and the spot where now is located the city of Vincennes, was one of their favorite haunts. The land, which was covered with light brushwood, could be easily cleared, and the rich, sandy soil was tilled with little labor; consequently, it was the natural location for an Indian village. This Indian settlement became known to the white man through the French explorers and missionaries. Of all the early explorers to visit the American continent, none were more daring or zealous than the French. Zeal for establishing missionary posts and for converting the Indians caused them to penetrate the wilds of this section of the country. A "Missionary of the Cross" always accompanied the French soldiers and explorers, wherever they went to establish trading posts and settlements. The French made their first permanent settlement in Quebec in 1608. From here they worked westward and southward. They made a settlement at Detroit in 1670, at Kaskaskia in 1673, and it is almost certain that the black-robed Jesuits visited the Indian village on the site of the present city of Vincennes before 1700. Old records collected from Kaskaskia and other early French mission centers give evidence that the town now called Vincennes and the French Catholic church there were in existence in 1708, and probably earlier.

Whatever the exact date of settlement, Vincennes is a very old city, and although now of comparatively little importance, she has had a distinguished past and her place in American history is firmly fixed. She was destined to become the most important and permanent of all the French missionary posts in the Mississippi Valley. The place is of more than general historic interest to us because here, at different times, the flags of three nations have been unfurled,—those of France and England, and since 1779 that of the United States. Long before Chicago was even a village Vincennes was considered a city. The comparative importance of the two places in the early days is brought out by an old document, quoted by an early writer, in which it is said that the village of Chicago petitioned the city of Vincennes for the purpose of opening a road connecting the two centers.

Vincennes also bears the distinction of being the first cathedral city in the state of Indiana and one

of, if not the first, in the whole Northwest Territory. It is because of this fact that we have coming down to us today the two unusual and important examples of early American architecture. The first St. Francis Xavier's Church, which is said to have been founded about 1702, was of the stockade type with a thatched roof. The altar and other details of furniture were crude affairs, made on the spot with primitive tools and the aid of Indian converts. In 1785 Father Gibault built a new log church, 42 by 90 feet, which was used until about 1830. The present church edifice, which stands very near the site of the earlier churches, was projected by Father Champomier in 1825, and the cornerstone laid on March 30, 1826. By great sacrifice and labor the work of construction was continued by the local adherents of the church from 1825 until 1834, when, upon the arrival of Bishop Brute, it was destined to become a cathedral, seat of episcopal rule for a vast region.

It is not known who designed the structure, but it is most likely that Father Champomier, who was in charge of the original project, was responsible for the design of the earlier portion, while Bishop de la Hailandiere was in part responsible for the later additions, although a master builder was no doubt in charge of the actual construction. The Vincennes Cathedral is similar in many respects to the cathedral at Bardstown, Ky., which was built ten years earlier, and for that reason some of the church officials are of the opinion that one designer may have been responsible for both buildings. There is preserved in the Cathedral Library an original drawing showing the design of the structure as it was originally planned. The name of the designer does not appear on the drawing. By comparing this original drawing of the structure and the building as actually completed, it is seen that the design was carried out in most respects, except for the arrangement of entrances at the front. The original drawing shows that the main or front facade was to have had three large windows, similar to those on each side of the church, and that it was originally intended to have two side entrances, one on each side near the front.

A measured plan of the Cathedral, as it stands today, is included here. Although small and simple enough in its parts, it displays nevertheless, characteristics which clearly mark it as a building of distinction, especially when we consider its early period and the pioneer conditions of the country at the time it was built. It consists of a nave and two aisles, the nave being divided by rows of columns from the aisles. These columns, eight in number, are 2 feet in diameter and 28 feet high, and are of a simple Doric-like type, without entasis. They are constructed in a manner quite in keeping with their period, being made of solid tree trunks, especially se-



THE OLD CATHEDRAL, VINCENNES, IND.

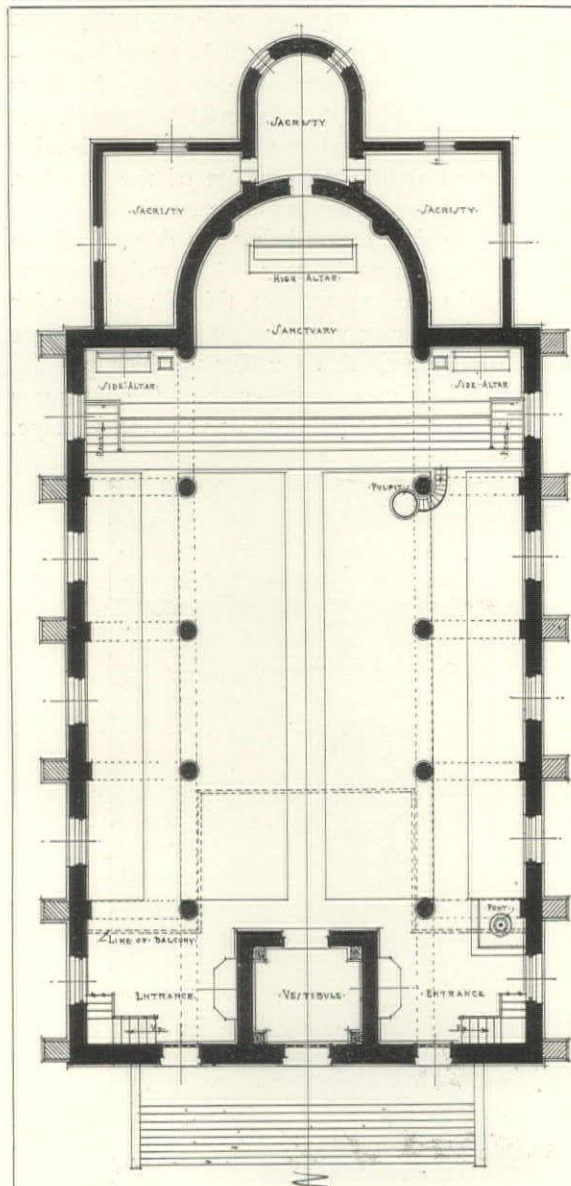
SERVED AS THE CATHEDRAL OF A VAST REGION FROM 1834 to 1895; NOW USED AS A PARISH CHURCH

lected for the purpose, which after being shaped as desired were lathed and then plastered. On the walls are pilasters of like proportions and construction. The columns carry wooden arches, spanning from column to column and from columns to wall pilasters. The ceilings of the side aisles, between the wooden transverse arches, are flat, while that over the nave and apse is in the form of a wooden vault, which is flattened at the top. The construction of these ceilings and vaults is quite singular in that they are at once insulated and semi-fireproofed by means of a layer of clay mixed with straw, of several inches in thickness, placed over their entire area.

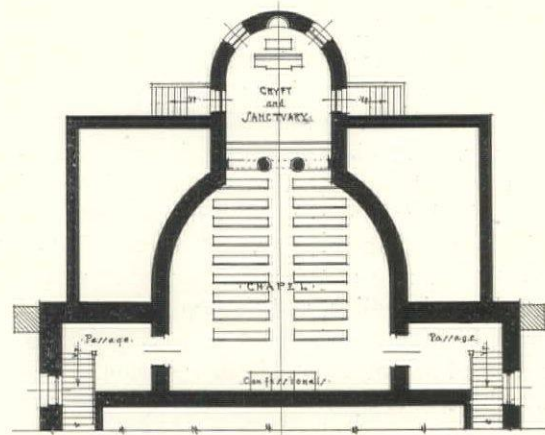
The sanctuary, which is of generous proportions, is raised five steps above the level of the nave. It contains the high altar and two side altars. From the side aisles, stairways lead down to the chapel and crypt below the sanctuary. Back of the sanctuary are the sacristies. The organ loft, which is over the main entrances, is shown by dotted line on the accompanying floor plan. It has been enlarged at some

later period, a fact that is evident from the change in design of the railing, and an organ has also been installed in the loft. Perhaps the most distinctive feature of the old cathedral church consists of the crypt and chapel below the sanctuary. This is an unusual feature in American church architecture, especially in the smaller churches of early times, and can be traced, in this instance to French influence.

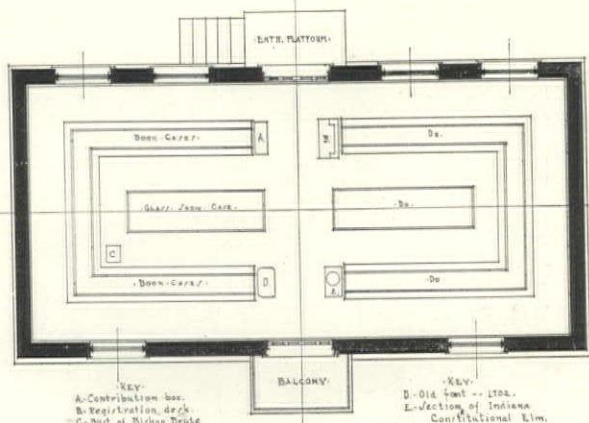
Architecturally, the exterior of the old Cathedral is very plain and simple. The front facade, however, is quite effective with its three arched doorways, above each being a niche filled with a statue. In the niche over the central doorway stands a statue of St. Francis Xavier, to whom the Cathedral was dedicated. The statue in the niche over the doorway to the left of the center is of St. Joan of Arc, and in that to the right is a statue of St. Patrick. Crowning the whole facade there is a plain pediment with an effective cornice, and rising above this is the clock tower and belfry terminating in a slender spire, the total height being about 140 feet. This was the



Plan of The Old Cathedral



Plan of Chapel and Crypt, Under the Sanctuary Plan, The Old Cathedral Library



Plans Measured and Drawn by Joseph J. Weiler

last main exterior feature added to the Cathedral and was built between 1840 and 1847 under the direction of Bishop de la Hailandiere. Structurally, this tower is of considerable interest. It is carried upon heavy masonry walls, square in plan, which are 2 feet in thickness and carried up to the attic of the structure. Within the four angles of this tower are set up heavy vertical wooden timbers which are, by means of splicing, made continuous through the entire height of the tower. These are made more firm and rigid by being framed, in stages, with heavy horizontal timbers and crossed bracing on all four sides. All of the tower and spire which appears above the roof is of wooden construction. The tower contains a clock, installed soon after its erection, which is said to be of French make, and which is still in use. This tower also contains the first bell brought to Vincennes and used in the former church edifice. The bell was cast in France, shipped to New Orleans, and from there brought on a flatboat up the Mississippi, the Ohio and the Wabash to Vincennes.

The side walls of the church were originally very plain, being relieved only by five simple window openings on each side. The Gothic-like buttresses which are now in place down each side were added in 1908 to stiffen the old brick walls which were spreading outward, due to settlement or other structural difficulty. The glass in the windows was originally of a frosted variety, of small diamond-shaped panes set in lead, and at the center of each was the figure of either a cross or a star. The entire window area was divided into two vertical panels by means of a central wood mullion, and the top of each panel was formed by a large circular area of colored glass. The extent and arrangement of the apse and sacristies, built about 1841 by Bishop de la Hailandiere at

the rear of the earlier structure, give accent to this important part of the old Cathedral. The interior is quite in harmony with the exterior. Simple in construction and arrangement, it depends for interest entirely upon the richness of the altars, furnishings and wall paintings mellowed with age, all of which, when seen in a subdued light, impart to the interior something of the glory of the smaller Old World cathedrals. The whole structure, in spite of its naïve simplicity and almost archaic quality, has a certain dignity and charm about it that are in keeping with its one-time considerable importance in America.

The most important adjunct of the cathedral was the Cathedral Library, which was established at an early date, probably soon after 1834, when Bishop Brute took charge. Many of the best books belonged to him, and it is to this bishop and his successors that we are indebted for the collecting and preserving of the old records, documents and books. This library served the bishops in a practical way in the training of young men for the priesthood. The library building, which stands close to the cathedral church, was built in 1840. It is a simple brick structure, rectangular in plan, 40 by 20 feet, and harmonizes well with the larger structure, although it shows classical tendencies in its pilastered treatment. It exhibits a refinement and restraint that are pleasing and express admirably the purpose of the building. The entrance doorway is not on the street facade but on the opposite side, access being possible only from the private grounds at the rear. Although now preserved as a historical monument, this library was for many years in regular use by young men who were studying for the priesthood under the bishop.

These two buildings, together with the treasures which they house, constitute a most valuable heritage.



The Old Cathedral Library, Vincennes, Ind.

New Apartments from Old Houses

By ROGER WEARNE RAMSDELL AND HAROLD DONALDSON EBERLEIN

THE title, "New Apartments from Old Houses," may, perhaps, convey a certain glamorous suggestion of "new lamps for old" and all the Eastern magic familiar to us from the pages of the "Arabian Nights." The magic of converting old houses of unalluring character into agreeable apartments, however, though quite as successful in achieving its ultimate results, is not of the instantaneous sort wrought through the instrumentality of talismans and obedient genii but is clearly traceable, at every step of its progress, to the combined common sense and creative imagination of everyday mortals prompted by the necessity of meeting a definite social and economic present-day condition.

The project of alteration has two distinct aspects. The one is purely architectural, while the other is economic and civilly reconstructive. The former calls into play the faculties of invention and insight into the latent opportunities offered by certain types of dwellings that have outlasted the functions for which they were originally destined, due to a variety of causes; the latter has to do with the problem of reclaiming decayed neighborhoods and other "waste areas" in our large cities, a matter that is yearly becoming more and more important. The two aspects are closely linked in some ways, but not so inseparably that we cannot consider them apart, and for our present purpose it is desirable to discuss them independently, however much both may tend to a common end, regarding first the architectural question, and afterwards taking into account its bearing with reference to "waste areas," found in every city.

The two instances here presented where apartments have been created by remodeling dwelling houses are both in New York, one at 420 East 50th Street, the other at 180 East 75th Street. In each case the waste space contained in the original buildings was utilized so that a vastly greater amount of service was derived from exactly the same area. The general characteristics of the kind of plan followed in the average city house of from 40 to 60 years ago are sufficiently familiar, so that there is no need for comment on that score. Inspection of the accompanying plans will show to what an extent interior structural changes have been necessary, and how far the rehabilitation has been achieved by merely a slight rearrangement of previously existing divisions or by the addition of partitions therein. In a process of this sort the readjustment of staircases, with means of separate access to the several apartments, is likely to be one of the chief difficulties to be surmounted. Well directed ingenuity, however, can cope with the problem successfully, as these instances illustrated prove. Number 420 East 50th Street, in its present form, contains three apartments. Apartment 1 is a "duplex," comprising the old basement

and next two floors. Apartment 2 is another duplex, occupying what were originally the third and fourth floors of the dwelling, and Apartment 3, consisting of a single story, is made up of a living room, two bedrooms, a bath, a kitchenette and a maid's room, all on the top floor. The main staircase retains its original place in the plan and, although it is intended primarily to serve the main entrances of the several apartments, there is also emergency access to it from every floor. Thus the solution of the chief problem.

The only outside alteration affecting the interior arrangement was the removal of the high flight of steps from the sidewalk to the front door on the main floor. The old basement entrance, at the street level, then became the front door, while the former vestibule and front hallway made room for the owner's bath and a large storage closet. In the course of remodeling the old front basement was made the dining room of Apartment 1, enough space being reserved for the entrance hall and the first run of the main staircase. The old basement kitchen, at the rear, was at the level of the back yard, and was the logical place for the owner's living room on account of its size, pleasant southern exposure, abundant light and proximity to what has now been turned into an agreeable garden from an erstwhile desolate tract of sheer ugliness. In the readjustment the sub-basement beneath has become the kitchen, and is abundantly lighted from a wide grated areaway outside the living room windows and garden door. A private staircase, ascending from the corner of the living room, connects the ground floor and main floor in Apartment 1, while another private staircase connects the two floors of Apartment 2, so that there is complete internal communication in these two apartments without using the main staircase. Apartment 3 has only one floor, and is reached by the main staircase, so that there is no occasion for any independent stair provision. The common heating arrangements, with coal storage and the maids' bath, are in the sub-basement, the only actual basement, with the kitchen of Apartment 1. Thus the planning of utilities.

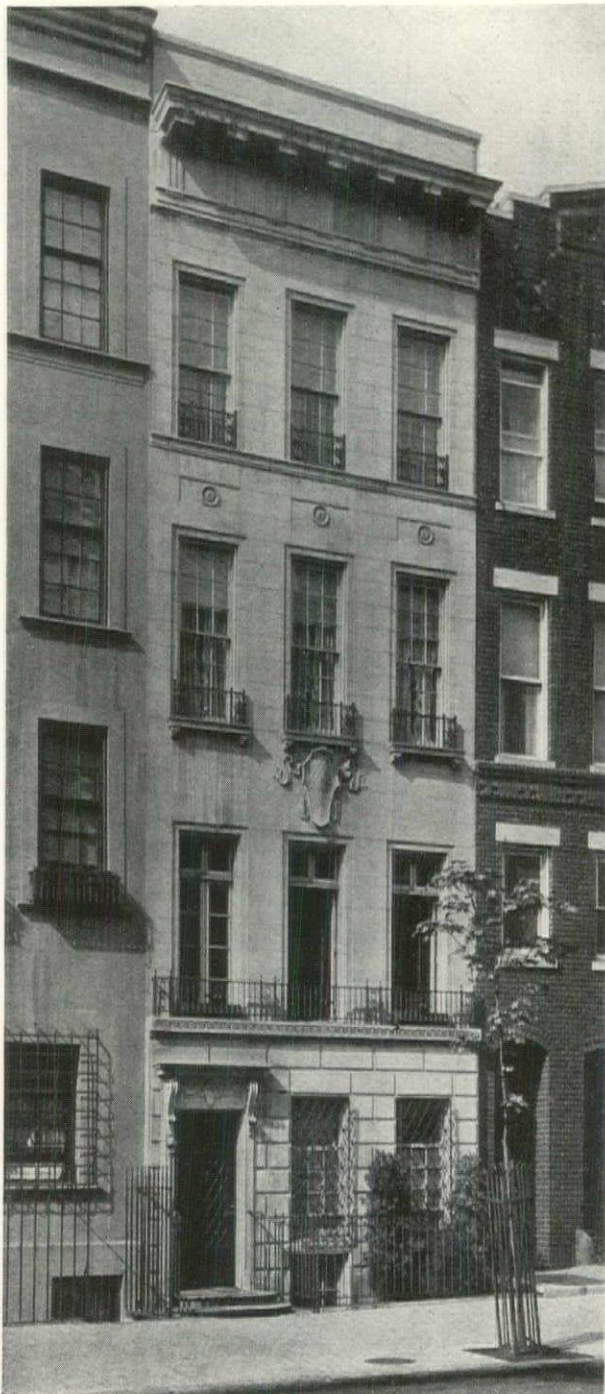
At 180 East 75th Street the exterior changes were far more extensive. The high steps leading from the sidewalk to the main floor disappeared, as in the former instance, and the basement door at the street level became the chief entrance. But in addition to this, the whole facade of the building was changed by removing superfluous projections once considered ornaments, laying a stucco jacket over the dingy brown stone, and manipulating the factors of illusion so that the front assumed a totally different expression, although no drastic structural alterations were involved in the process of transforming the building.

In the rearrangement within, the old basement, which, as already said, was on the street level, be-

came the ground floor and was so divided that it contains in front a bedroom, a bath, and the private entrance and staircase of the first apartment, the living room of which is immediately above the bedroom and occupies most of the space devoted to the drawing room in the original plan. The private vestibule of the second apartment opens from the common entrance hall on the ground floor and gives access to a large living room with full length windows overlooking the garden, which from its previous dreary estate has been converted into a place that is really sightly and agreeable, as a garden should be, and as even a city garden *can* be. Directly above the living room are the bedroom and bath of

the second apartment. The ground floor and first floor are thus occupied by two very agreeable small "duplex" apartments. The upper floors are somewhat differently arranged, but each duplex apartment has its own private stairway as well as access to the main or general staircase and its hall on each floor.

It now remains to view the economic aspect of the situation. To begin with, anyone at all familiar with conditions in our large cities cannot fail to be aware of the existence of many districts that may be called "waste areas," "decayed neighborhoods," "inactive sections," or whatever other name can be devised that seems more accurately to define their status. Such localities perhaps once enjoyed high



After Remodeling



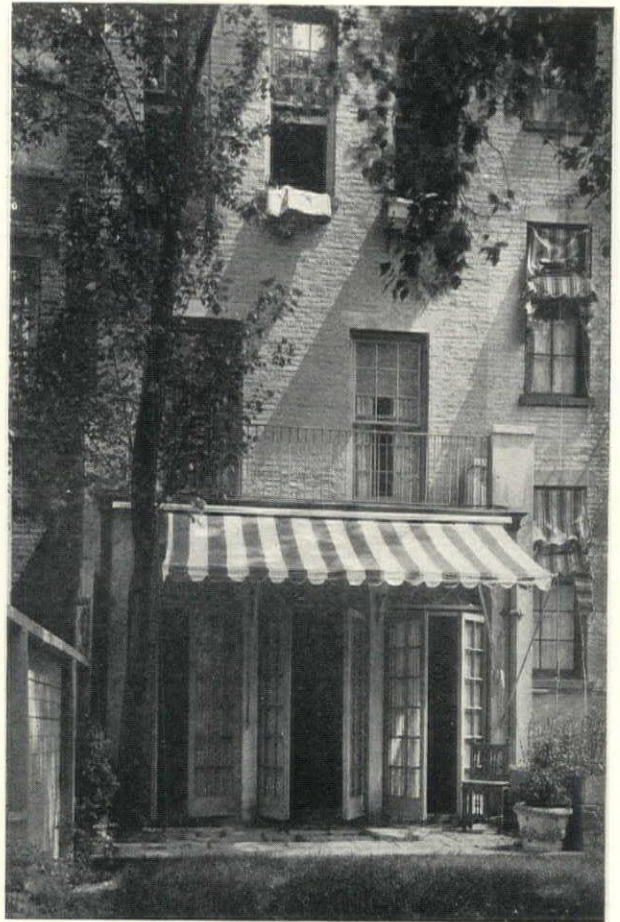
Before Alterations

House at 180 East 75th Street, New York

Remodeled by Harry M. Clawson, Architect

popularity as desirable places of residence, but subsequently lost their prestige. Sometimes the change can be traced directly to certain altered economic conditions. There may have been a gradual invasion of small shops, or else the relentless advance of great mercantile and manufacturing interests may have crowded in too closely, disquieted the residents and sent them trooping elsewhere, leaving "backwaters" untouched by the current of commercial onrush and yet bereft of their former tenants and sources of upkeep. Again, the change can sometimes be accounted for only by the caprices of fashion, a fickle but potent agency, to whose charge can be laid many a freak of development in large American cities.

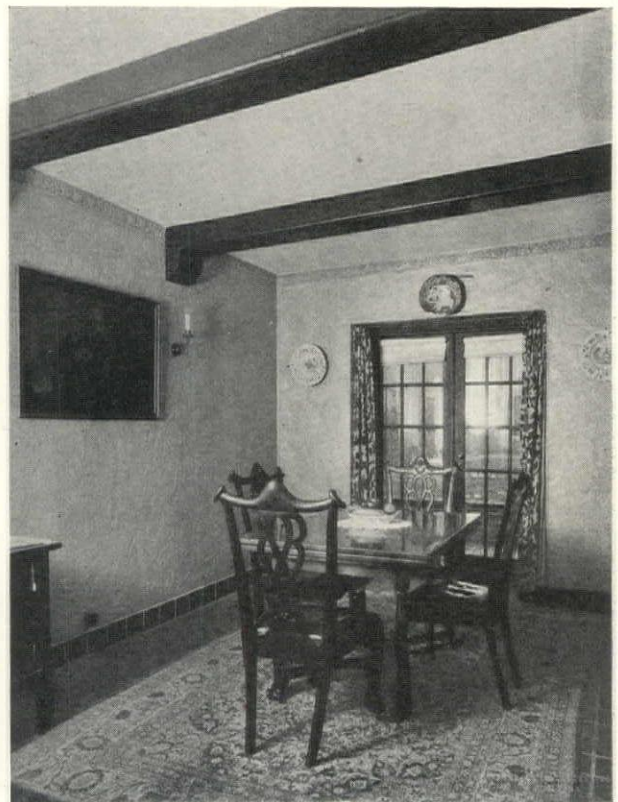
At all events, we know only too well the rows of city dwellings whose original occupants, those for whom they were built, have long since forsaken them for other quarters more fashionable or more to their taste. These dwellings have apparently seen their best days; dilapidation and dinginess have set their impress upon their fronts, and within they have become tenements for families or individuals of a type not contemplated when they were erected, and for whose accommodation they are not in any wise fitted. It may be they have fallen into the rank of cheap, shabby boarding houses; have become, perhaps, the quarters of nondescript organizations, charitable or otherwise; or here and there they have yielded a basement or part of a ground floor to petty tradesmen with ephemeral businesses. In any case, the fact remains that these properties are not really profitable possessions from the owners' point of view. Although they may have an appreciable value, that value



Garden Facade; House at 180 East 75th Street, New York



The Main Entrance



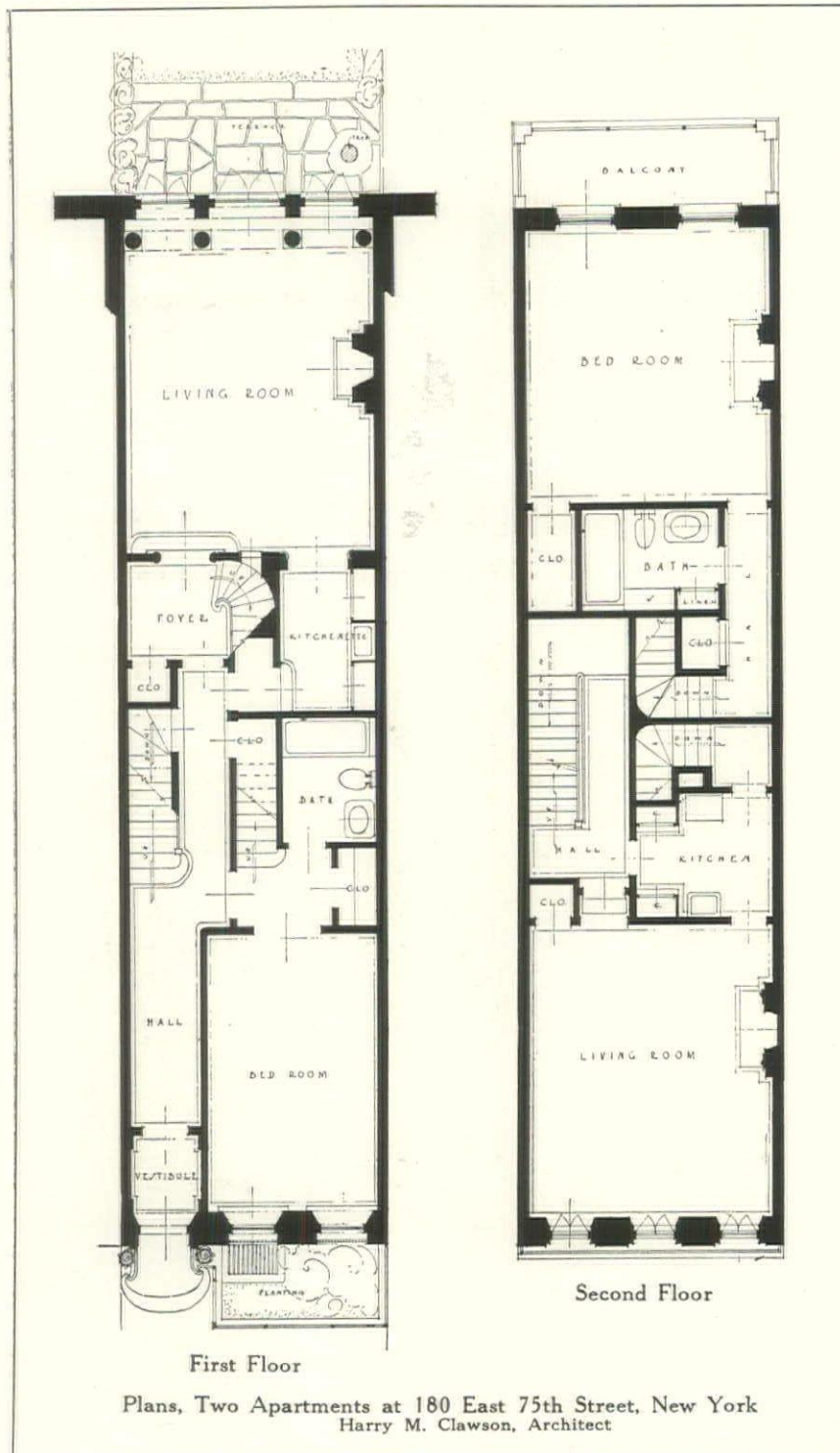
A Dining Room

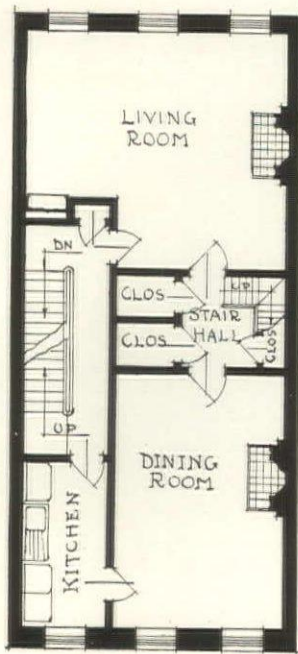
is not as substantial as it should be, and not as substantial as it would be, could they and the neighborhoods of which they are the individual units be classed in a more desirable category. Neither are they as good an asset as they might be to the municipality, for their assessed values do not keep pace with the assessed values of properties in a more attractive environment. Furthermore, their value is likely to grow relatively less all the time, unless the process of decay be arrested and some active agency of redemption be brought to bear. They are waste and unprofitable, so far as the compact and complex

economic organization of the community is concerned, and will remain so, or become worse, until rehabilitation takes place and lifts them out of the mire. In every large city such localities exist.

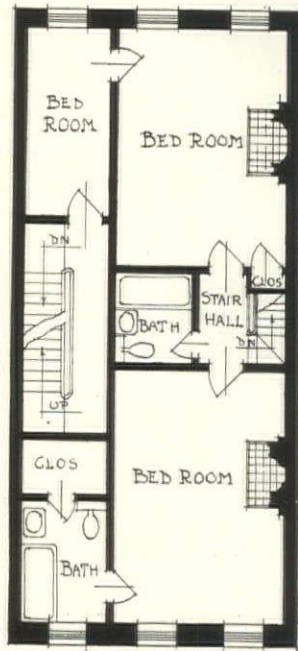
Now and again the objection is seriously made, by folk with a *laissez faire*, fatalistic turn of mind, that a wrong is done the present denizens of decaying neighborhoods by dispossessing them of the quarters they are rapidly turning into slums and by reclaiming the places for decent habitation in accord with the changed social and economic conditions of the present time. If such folly requires an answer, it may be pointed out that it is always praiseworthy and of the very essence of progress to make any existing material conditions better than one finds them,—to make two blades of grass grow, so to speak, where only one grew before. No one, surely, will argue that such examples of neighborhood rehabilitation as "Sutton Place" or "Turtle Bay" are to be regretted. It needs no vivid imagination to picture what Sutton Place and Turtle Bay would be by the present time if the decay that had already set in had not been arrested and a course of thorough regeneration inaugurated; nor does it require profound financial acumen to estimate what property there would have been worth now either to the owners or as a source of tax revenue to the city. Yet, if the fatalistic fallacy had prevailed, Sutton Place and Turtle Bay would have been allowed to go steadily down hill. It is no kindness to relinquish a neighborhood to tenants who are causing it to deteriorate. It is simply a stupid blunder. Tenants who are misfits and really not comfortable in their quarters, which are not fitted to their mode of life, are infinitely better off elsewhere, even though they may have no "model slums" to repair to. Perhaps some day we may arrive at the achievement of truly model slums. At any rate, it is doing them a genuine service to prevent them from creating new and larger slums.

There is an unfortunate tendency inherent in most

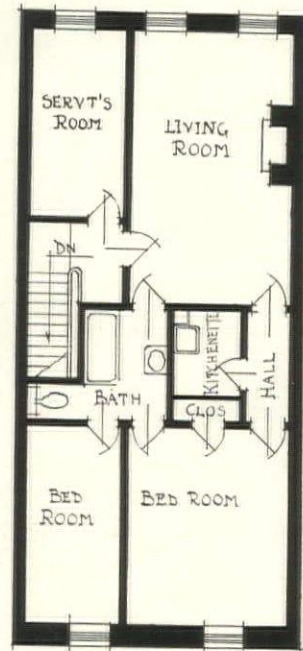




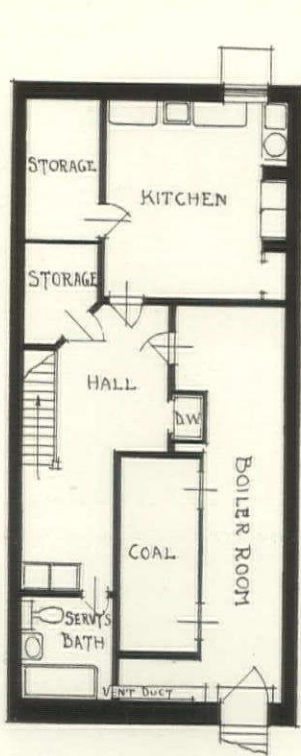
Third Floor



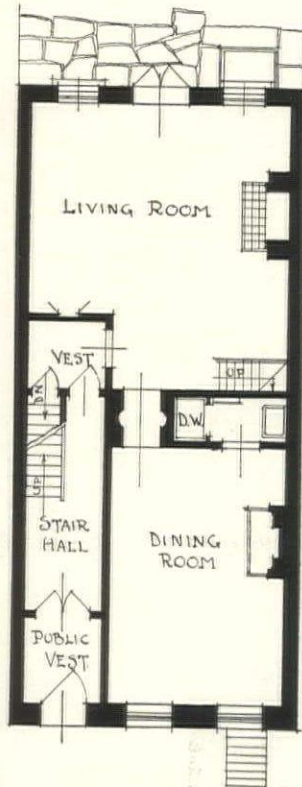
Fourth Floor



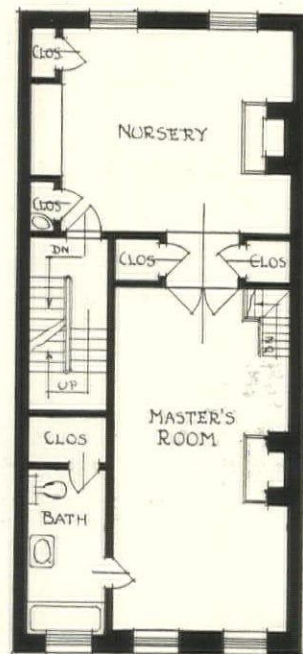
Fifth Floor



Basement



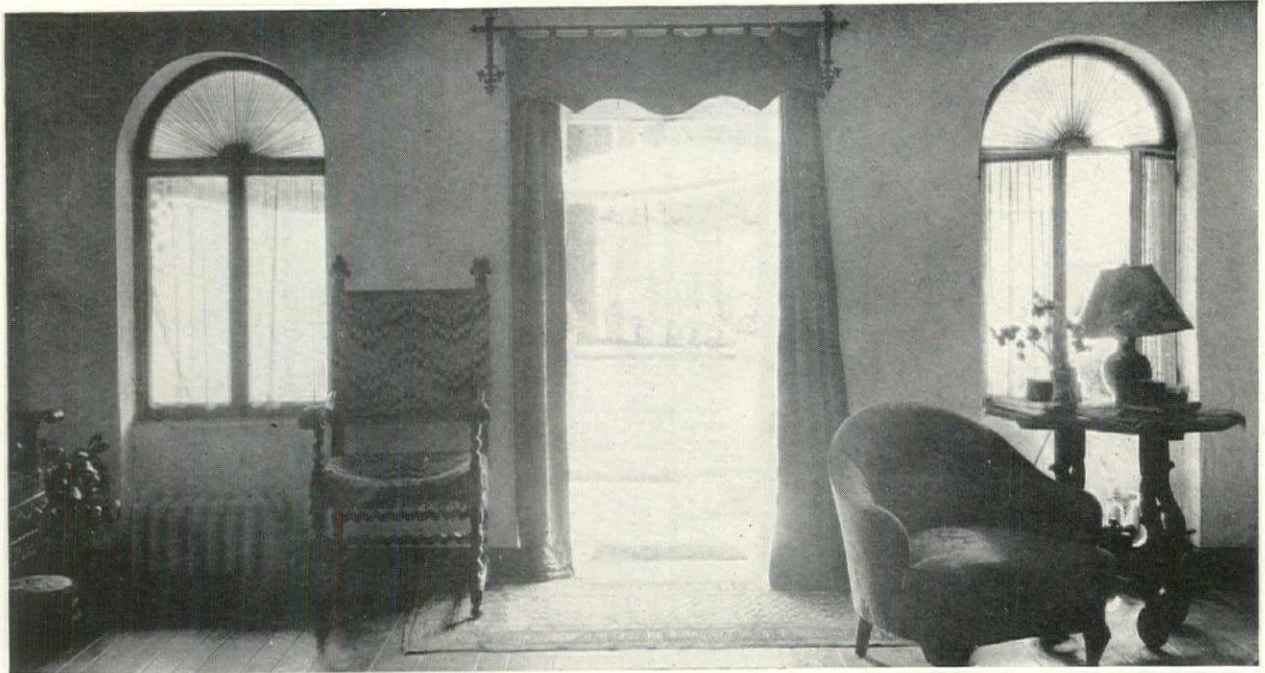
First Floor



Second Floor

Plans, Remodeled Residence at 420 East 50th Street, New York

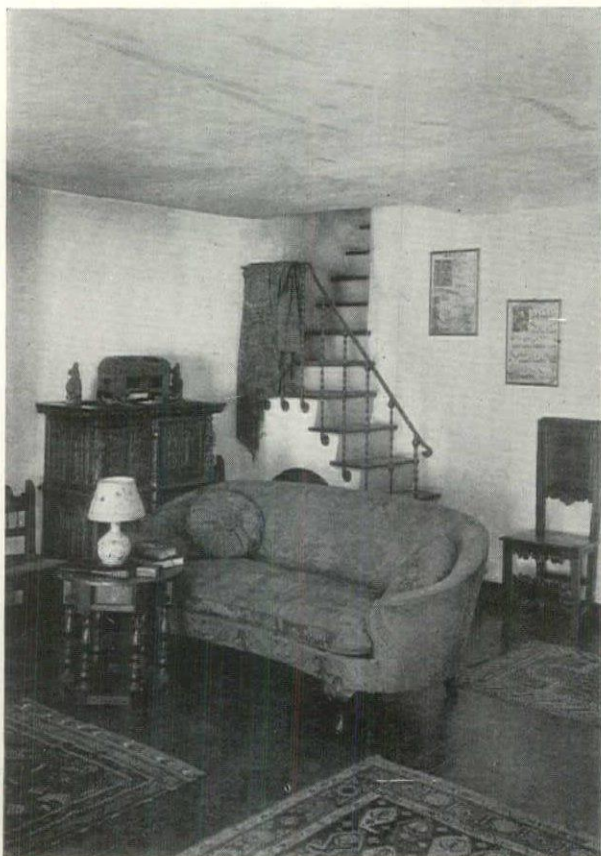
Franklin L. Kline, Architect



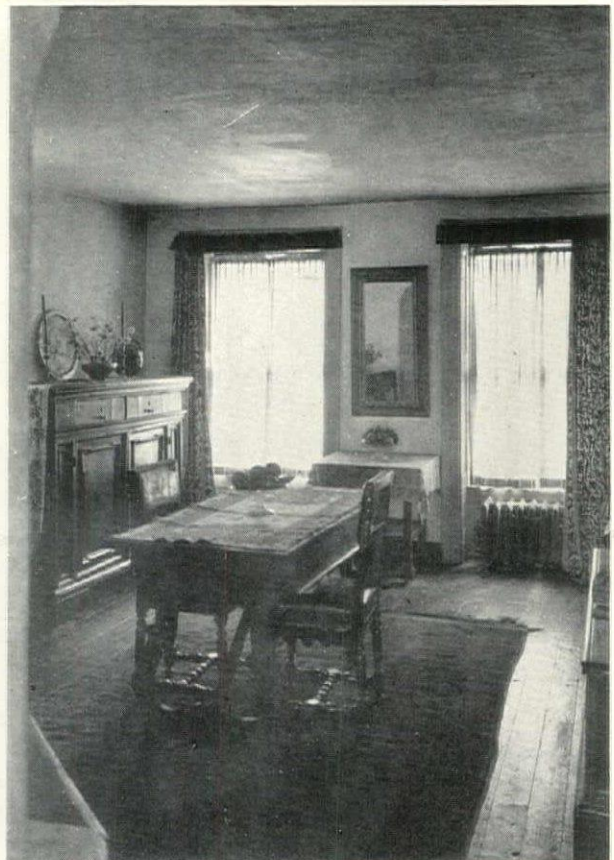
Living Room, First Floor Apartment, 420 East 50th Street, New York

towns and cities built by people of Anglo-Saxon blood, a tendency to sprawl and straggle, leaving behind the outlying districts areas imperfectly developed that soon begin to decay. This tendency is traceable to certain traits of Anglo-Saxon character. The remedy is to be found in a subsequent process of consolidation. The problem of systematic con-

solidation of urban "waste areas" is one that nearly every city, sooner or later, is obliged to face. In New York the problem happens to be particularly acute, owing to the dense population of the city and the physical constriction of its limits. As one method of coping with this problem, the remodeling of old houses into new apartments has evidenced success.



Living Room, Apartment in House at 420 East 50th Street, New York



Dining Room, Apartment in House at 420 East 50th Street, New York

THE BUILDING SITUATION

A MONTHLY REVIEW OF COSTS AND CONDITIONS

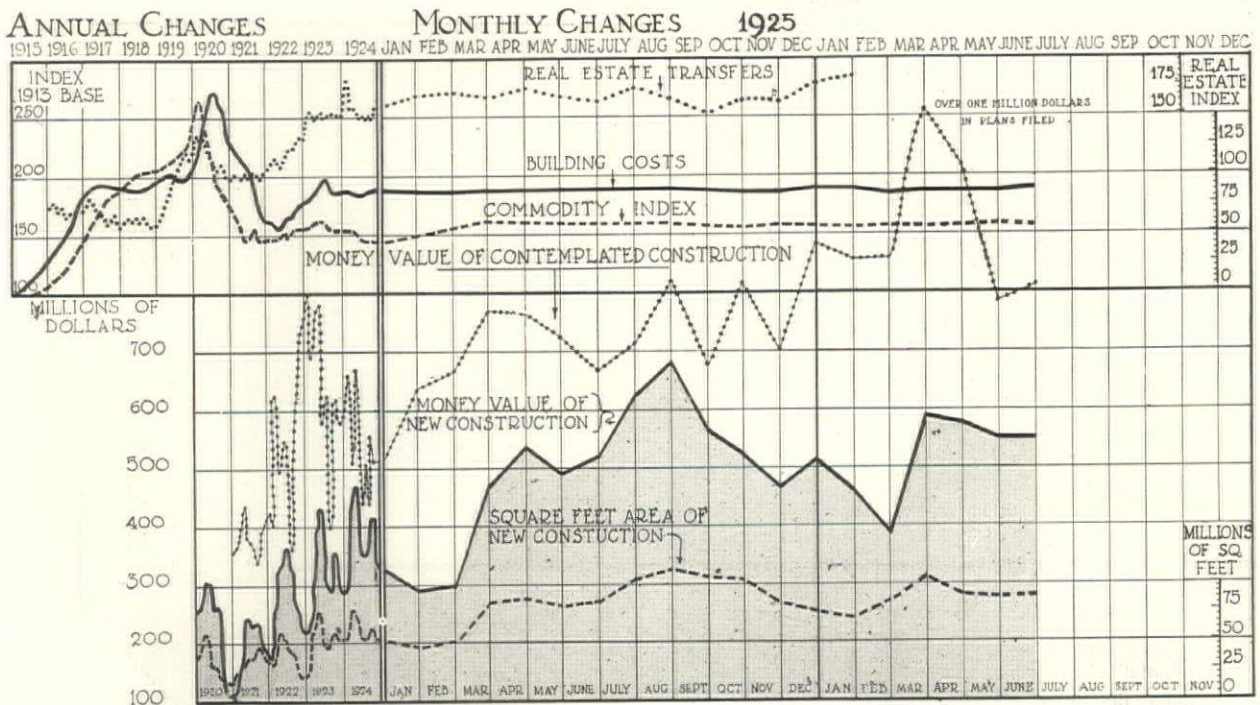
THE month of June, showing well maintained building activity, closes a six months' period which again establishes a high record for any similar period of building industry in the United States. According to figures of the F. W. Dodge Corporation and other authorities, it is evident that the round figure total of new building for the first six months of 1926 is approximately three and a half billion dollars, being about 15 per cent greater than for the first six months of 1925. The month of June records for the country new building construction amounting to approximately the sum of \$948,000,000.

While there has been considerable talk of the slowing up of building activity, it is quite evident that there is no very definite slowing up in evidence. On the other hand, it is obvious that the present pace cannot be maintained indefinitely, because there must be a limit to the capacity of building labor in this country, and as costs are increasing again because of this situation, it is probable that many wise prospective investors will defer their projects. It will be a good thing for the industry if this occurs, and a more general distribution of building activity over the

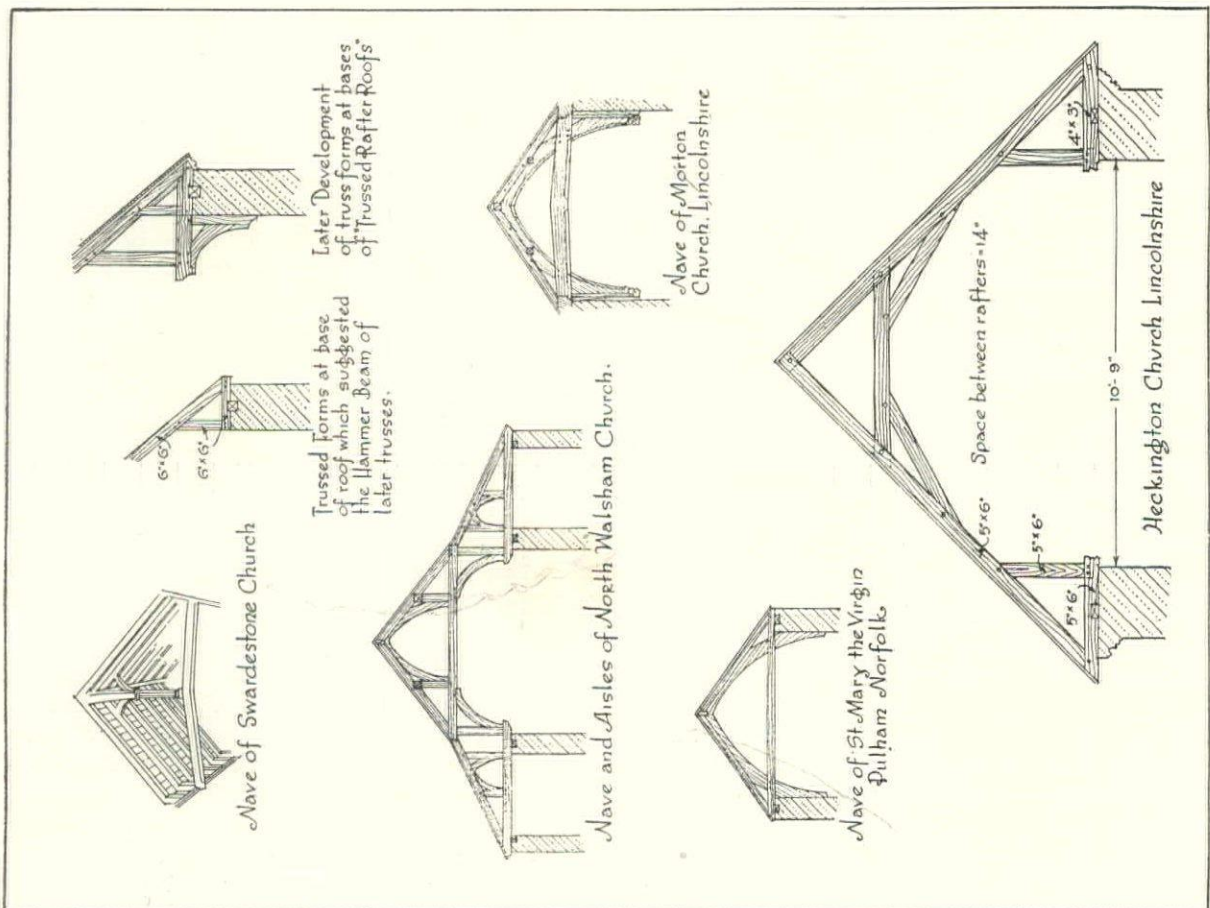
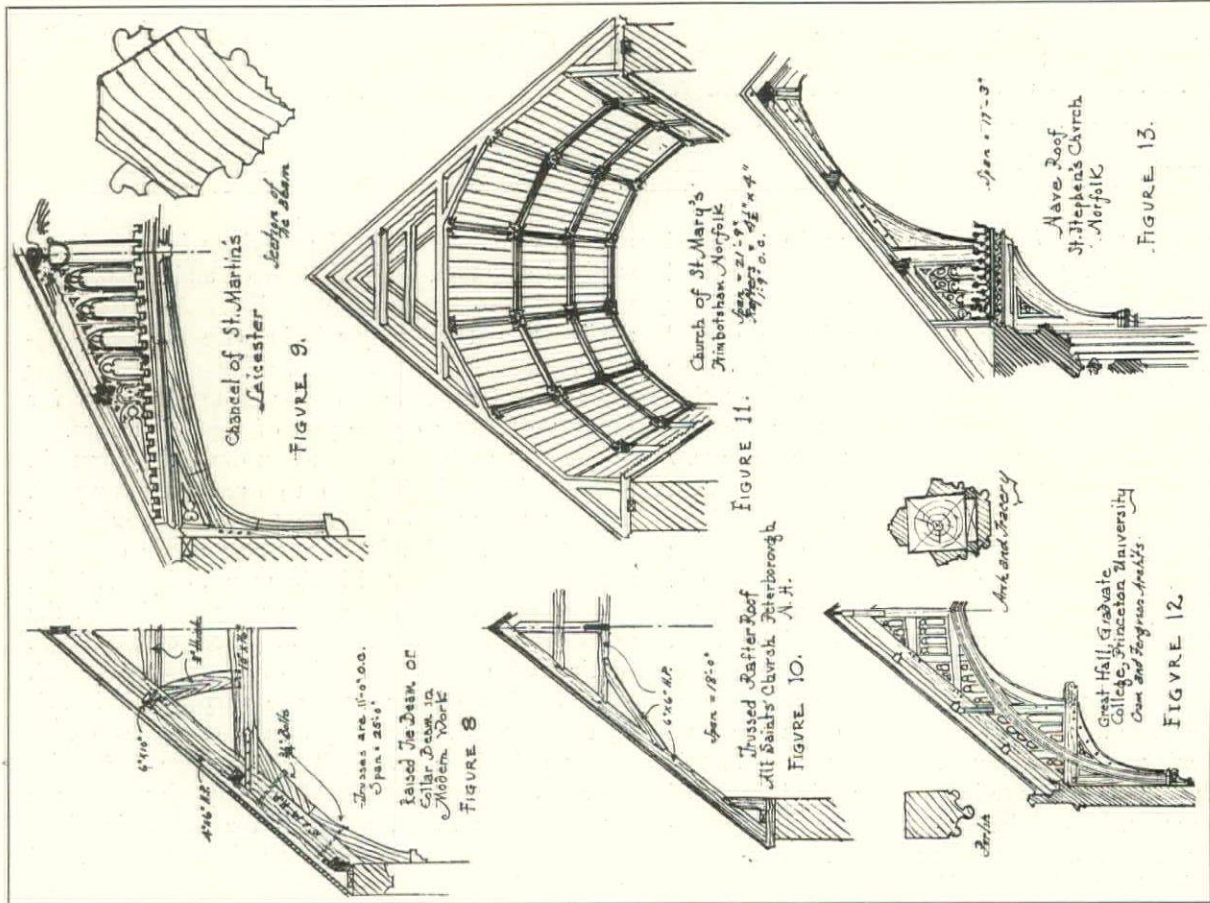
next few months will aid materially in relieving a strained situation, both as to labor and the production and distribution of materials. Architects are advised that it probably will be wise to defer projects for two or three months, unless the local labor and material situation is elastic enough to allow for favorable bidding on the part of the contractors.

The contemplated construction during the first six months of 1926 is the highest on record in any year, and for the month of June totaled approximately \$807,000,000, which is 16 per cent above even the vast amount represented in the month of June, 1925.

The attitude of investors in mortgage bonds, the proceeds of which are used to finance new buildings, continues on a sound basis of interest, and with other funds used for mortgage purposes, it is evident that the financing progress continues on as strong a basis as ever. The mortgage companies are constantly ready to handle new projects and are not curtailing funds, although the economic viewpoint is being more carefully studied than ever, and financing is not available for over-built districts or for projects not effectively designed and well planned.



THESE various important factors of change in the building situation are recorded in the chart given here: (1) *Building Costs*. This includes the cost of labor and materials; the index point is a composite of all available reports in basic materials and labor costs under national averages. (2) *Commodity Index*. Index figure determined by the United States Department of Labor. (3) *Money Value of Contemplated Construction*. Value of building for which plans have been filed based on reports of the United States Chamber of Commerce, F. W. Dodge Corp., and *Engineering News-Record*. (4) *Money Value of New Construction*. Total valuation of all contracts actually let. The dollar scale is at the left of the chart in millions. (5) *Square Foot Area of New Construction*. The measured volume of new buildings. The square foot measure is at the right of the chart. The variation of distances between the value and volume lines represents a square-foot cost which is determined, first by the trend of building costs, and second, by the quality of construction.



OLD ENGLISH OPEN TIMBER ROOFS OF DIFFERENT TYPES

The Designing of Open Timber Roofs

By E. T. P. WALKER

AS we look over the achievements of church architecture in recent years it seems that of all its various departments the study of open timber roofs, as revealed to us in the beautiful examples of mediæval architecture, has received the scantiest attention. Many of our churches of the twentieth century are excellent in general design, in mass and in detail; many have beautiful proportions of nave and choir, exquisitely designed sanctuaries and entrance portals, but how very few have beautiful, honestly constructed roofs! It may be that most of the other parts of a church present inviting possibilities to the artist and craftsman, whereas the problem of spanning a roof has been very largely left to the solution of the engineer.

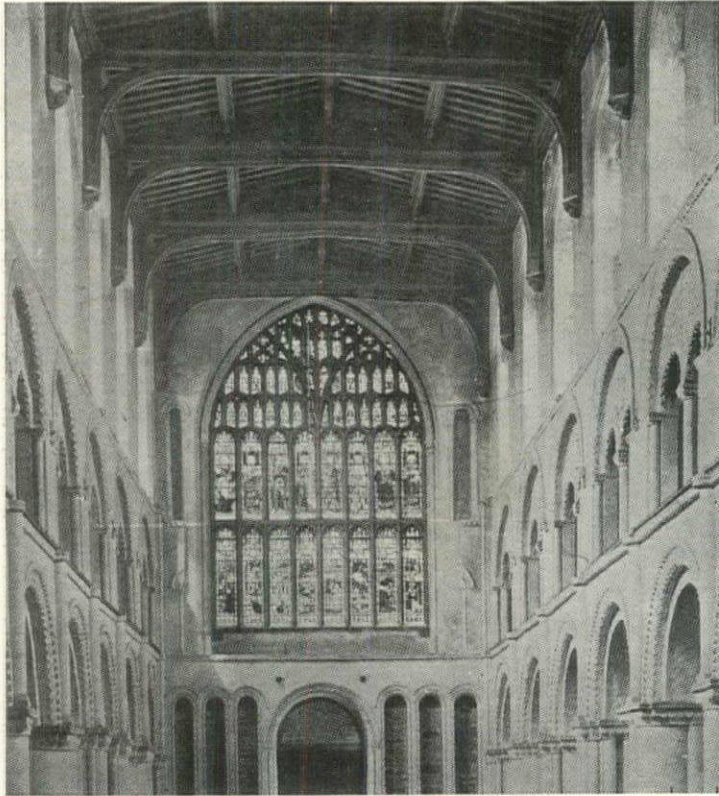
From a purely architectural point of view it is poor practice in a building of any character to construct a thing in steel or concrete and then attempt to deceive the beholder by covering it with a wood casing. This method of designing may deceive, but it does not convince. On close study such woodwork is found to lack all of the qualities which contribute so much real, innate charm and beauty to the old woodwork of English and continental churches,—the variety of chamfers, the life-giving qualities of the surfaces of plain faces and mouldings, the checks and sincerity of the graining, and the depth of the material. Another point that may be touched upon in this connection is the appropriateness of design for the problem at hand. When steel is used the properties of the steel alone are considered, and often the wood forms, if really solid, would fail utterly to do the work which they pretend to do. And we find in such work many examples where, if wood alone had been used, the design of the framing would have been entirely different. It is safe to conclude that had such been the case the problem would have been studied with due regard to the properties of the materials, and the results would have been immeasurably finer and more architectural.

The need of a close study of early roofs is very manifest when we realize how excellent these models are and how fully they answer our own requirements in matters of construction. It is not for us to slavishly imitate, but it is for us to study the examples still left to us with an idea of mastering the principles of their inherent qualities of law and order, whether they have to do with exterior embellishment or inner construction. The sacred edifice is and should be the assembling place for the best in all the various arts. As we study the mediæval churches we find that no art has made more notable achievements than that of building the roof; there is no portion of a building, ecclesiastical or secular, requiring more skill in its construction and more thought in the designing of its ornament.

Mankind was in an early stage of barbarism when the necessity of having some place of shelter was first experienced. The origin of covered habitations is lost in the twilight of history. The earliest forms of shelter must have been rude indeed. When the hollows of trees and the recesses of caverns failed him, it is probable that the savage devised nothing better than he could construct from the boughs of trees covered with skins, or moss and twigs, or mud and clay. These earliest forms were steps in historical development and are exceedingly interesting in that, crude as they were, they furnished ideas which led to later results of great architectural importance.

The simplest and earliest type of roof was that formed by two rafters pitching against each other. It soon became apparent, however, that this type of construction was defective because the rafters had a tendency to spread and thrust outward the walls on which they rested. This led to the use of the tie-beam, which has been used in all periods and which is still the best of all constructions when the roof is hidden from view. It may be observed that the tie-beam roof was never entirely discarded by mediæval builders. The trussed-rafter or single-framed roof, the roof framed with hammer-beams and braces, and the roof constructed with collars and braces all followed in the later development. But we find constantly recurring in the Norman, Early English Decorated and Perpendicular periods the use of the simple tie-beam form. In its earliest examples the tie-beam was sometimes used independently of the other roof members, being laid across the walls and anchored to the wall plates. Examples of this may be seen in the Church of St. Mary the Virgin, Wigenhall, Norfolk, and in the south chapel of Bredon Church, Worcestershire. Later examples show various expedients arrived at by the builder to make this simple form an ornamental feature in the design. At Southfleet Church, in Kent, the tie-beams are beautifully moulded; in the chancel of Northfleet Church the tie-beams are left in their natural hand-hewn surfaces, while the roof above is beautified with trussed rafters, panels and moulded ribs with bosses. Such a form possesses great possibilities.

The design of the tie-beam roof was changed in succeeding periods so as to harmonize with the rest of the architecture. In roofs of low pitch the beam frequently carried the weight of the whole roof, as in the case of that of the large south aisle of St. Martin's Church, in Leicester. A similar roof is that of the south chapel at St. Nicholas' Church at Kiddington, Oxfordshire. Here there is a massive beam well moulded on the soffit and connected with the wall pieces by moulded curved braces; the purlins rest directly on the beam, and the ridge is also supported on it by a strut or king-post and strengthened



A Beautiful Though Comparatively Simple Open Timber Roof

by short curved braces. The church at Higham Ferrars, Northamptonshire, is of the Decorated period. The tie-beam is cambered and with the short curved braces forms an arch. The cornice and rafters are simply but effectively moulded. In roofs of higher pitch the arch shape is retained in connection with the tie-beam. In the nave of Morton Church, Lincolnshire, the beam and the arch are equally emphasized, and on this account the result is lacking in beauty and order. In many tie-beam roofs the arch form was entirely omitted, as in Swardstone Church, in Norfolk. The design includes a boldly cambered beam supporting a small king post with cap and base and curved braces springing to the principals and ridge. This is an interesting example of use of a simple form, one well adapted to the problem.

The roofs over North Walsham Church in Norfolk are beautiful examples of the tie-beam construction without any surface ornament. The beauty of this work is the result of a very scientific and correct use of timbers. It shows ingenious framing, but nothing of a superficial character. The ties of the aisle roofs pass through the

walls and form corbels for the wall braces which, in turn, support the tie-beams over the nave. The Chapel of St. Anne at Arlington Heights, Mass., and the chapel at Greenlawn Cemetery, Nahant, Mass., both designed by Cram & Ferguson, are good examples of modern work done in the true spirit of Gothic architecture.

As we trace the development of the roof framing through the ages we find that the roof with diagonal ties follows closely upon the tie-beam form of construction. It was more widely used and was sometimes substituted for earlier forms when discovery had been made of its superiority of construction and of the additional height and opening of the roof space which it made possible. In roofs of wide spans each pair of rafters had a collar which was stiffened by braces. Sometimes the braces occur above the collar, and at other times they are tenoned into the rafters and soffit of the collar. The nave roof of Ely Cathedral furnishes a good example of this method. Here we find each pair of rafters trussed so that from below it is a richly wooded roof suggesting in its long parallel curves the form of an arched ceiling. The church at Peterborough, N. H., by Cram & Ferguson, pre-



Open Timber Roofing; Graduate College, Princeton
Cram & Ferguson, Architects

sents a noteworthy example of this type of construction in modern work. In this instance the constructive forms have been carried out just as in work of this kind in the middle ages; the timbers are solid throughout, mortised, tenoned and halved together and held securely by oak pins.

In roofs of this character the rafters usually extended over the outside edges of the walls to form the roof cornices on the exteriors of the buildings. Because the walls were thick and finished horizontally at the lines of the plates, great openings were left on the interiors between the tops of the walls and the underneath sides of the rafters. The builders introduced a strut on a line with the inside wall to give additional support to the rafters and to more firmly secure the entire roofing system to the wall. The addition of these vertical struts above the wall gave additional value both constructively and artistically to the roof in its completeness. An additional horizontal timber resting directly on the wall and connecting the vertical strut with the rafter completed the triangle and gave to the roof on each side a firm trussed base and obviated any danger of the truss spreading at the walls. Some students regard this simple form as



Nave of Chapel at Nahant, Mass.
Cram & Ferguson, Architects



Choir; St. Anne's Chapel, Arlington Heights, Mass.
Cram & Ferguson, Architects

very important in the history of events, as it undoubtedly supplied the idea for the development of the hammer-beam truss, which followed later.

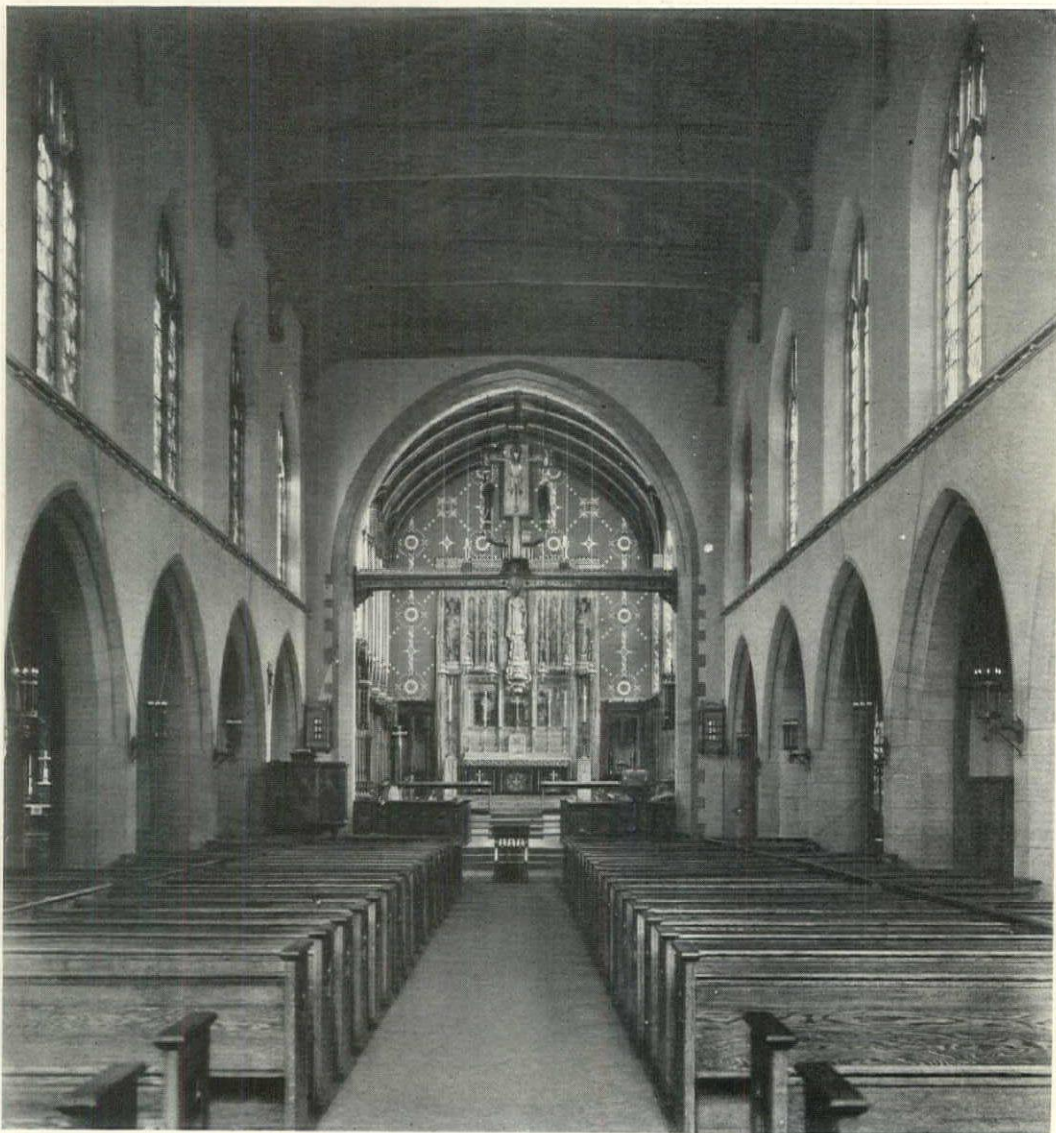
In many of the old trussed rafter roofs boarding was applied underneath the rafters, braces and collars, and formed coved or polygonal ceilings divided into panels with engaged mouldings and further enriched with carved bosses at the intersections. In some of the work the tie-beam was retained, as in the chancel of Sandridge Church near St. Albans, Herts. But in work of the Early English and Decorated periods, we find the tie-beam omitted and use of trussed rafters characteristic. The spaces between the rafters varied from 12 to 20 inches.

Some authorities have regarded the hammer-beam truss as a tie-beam truss after cutting away the central portion of the tie-beam. There is a similarity, at first thought, though it cannot but be regarded as erroneous to make this comparison, for the constructive principles of the two trusses entirely disprove such a theory. It is more logical in terms of construction, to regard the hammer-beam as a development of the trussed rafter base which has just

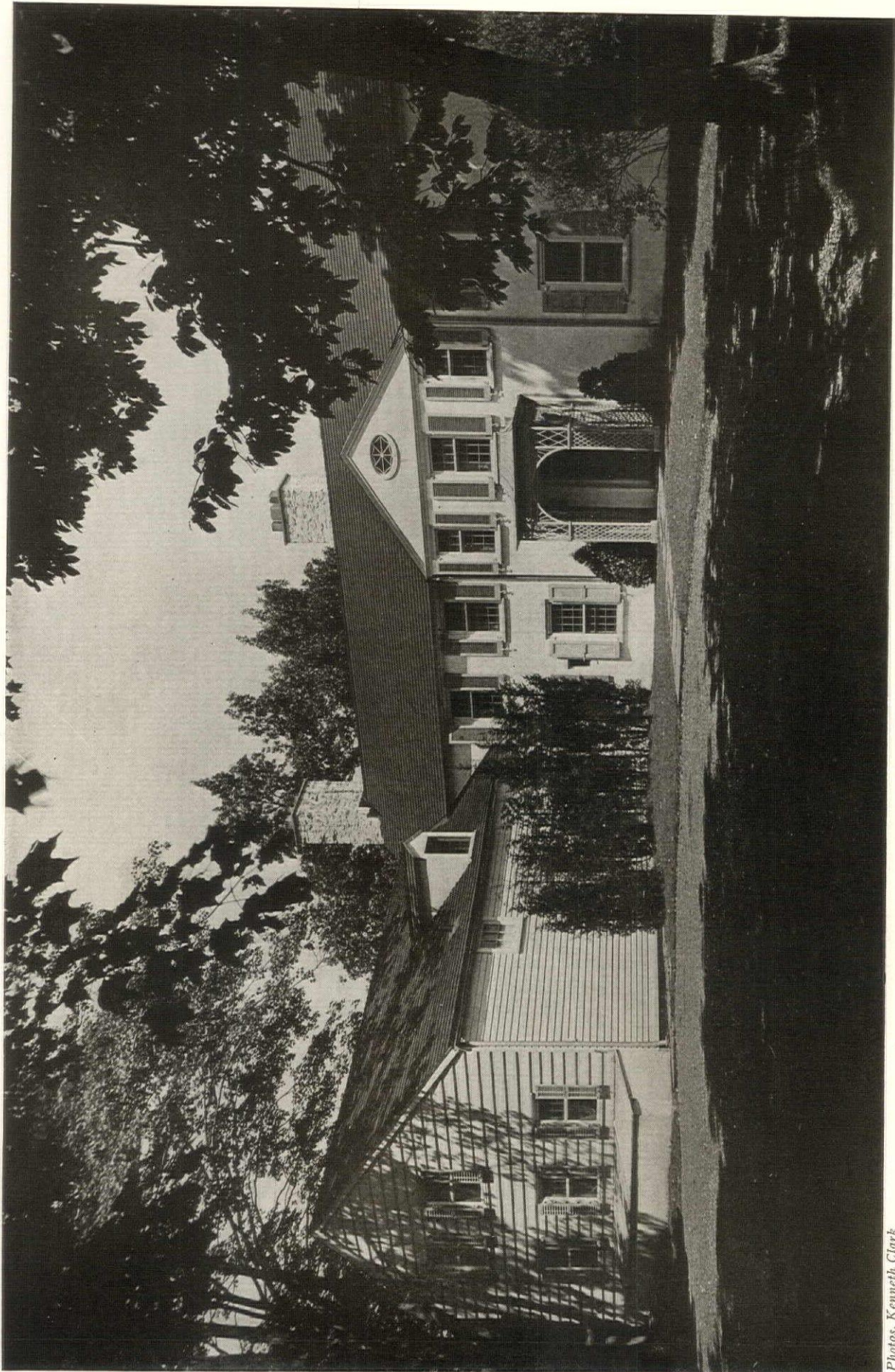
been described. We have no examples of the hammer-beam truss making use also of the tie-beam. The earliest example we know is the magnificent truss in the roof of Westminster Hall, completed in 1399. This differs from all earlier roofs in the use of large main arches of timber springing from the bottom of the wall pieces and uniting at the soffit of the collar-beams. The hammer-beams and struts run through this arch, and their braces complete the form of a trefoiled arch. This particular example is so perfect that it is hardly possible that it was the beginner of the style. The various examples which must have intervened between the times of building the earliest trussed-rafter examples and this superb truss, the culmination of the type, have been lost to us. Use of the hammer-beam trusses did not begin until late in the fourteenth and were not generally used until later in the fifteenth century. In the early examples the curved braces were usually of the same thickness as the main rafters of the truss; in the later examples they were usually 3 or 4 inches thick, and occasionally thicker.

Having once discarded the tie-beam, the English church builders, moved with the startling beauty of the latest form, carried to a perfection that has never since been attained the wooden roof in its most excellent forms. In this phase of architectural beauty England is unrivaled. Whereas the continent has examples in all the other departments of ecclesiastical architecture that far surpass the English work of the same nature, there is no work having examples of open timber ceilings that can equal those of almost any county in England. The very best example in our work of today, a roof which can stand comparison with the best of English examples, is that in the dining hall of the Graduate College at Princeton University, designed by Cram & Ferguson.

Open timber roofing is particularly useful in these days of high building costs, in that it adds architectural richness and dignity to a building for vastly less than would necessarily be paid for vaulting of any kind. Especially when color is used upon roof of open timber, there is secured an appearance of splendor satisfying out of all proportion to its cost.



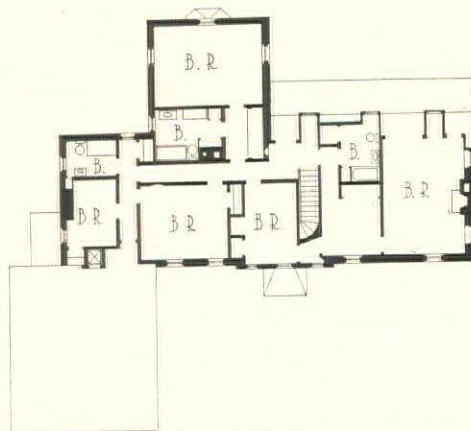
A Modern Example of Use of Open Timber Roofing



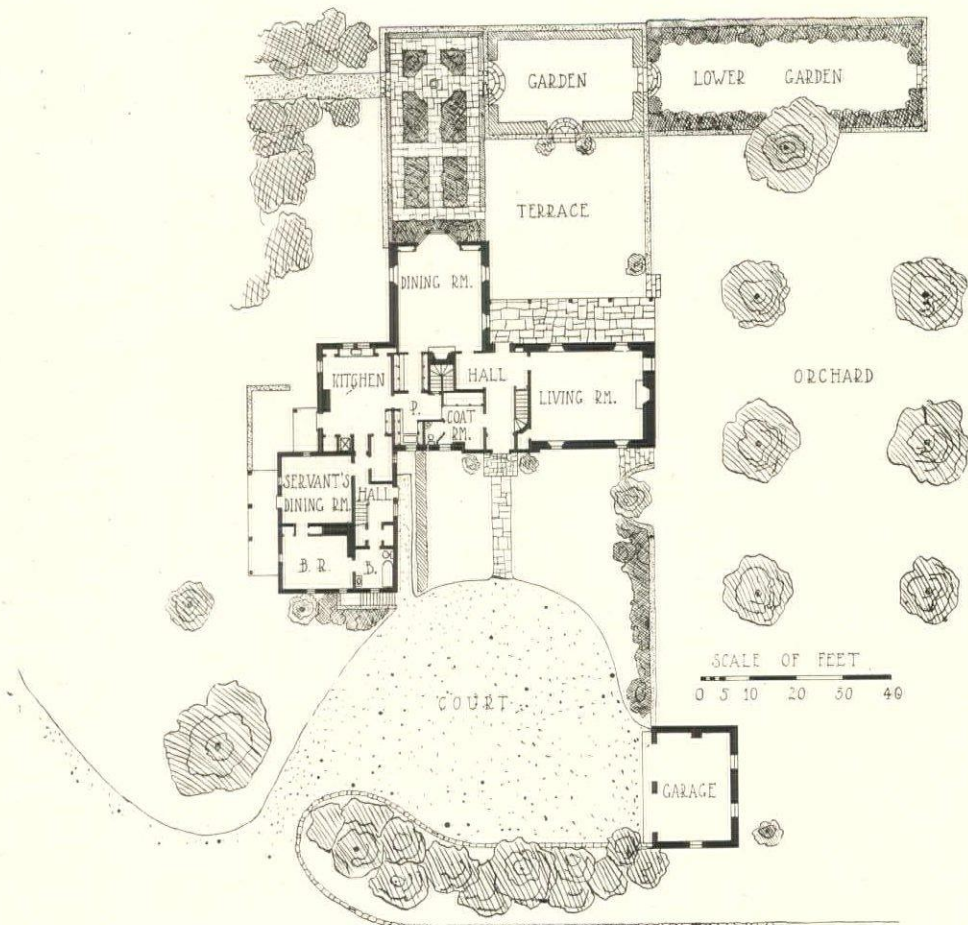
Photos, Kenneth Clark

HOUSE OF MRS. A. C. BALDWIN, BEDFORD HILLS, N. Y.
BUTLER & CORSE, ARCHITECTS

Plans on Back

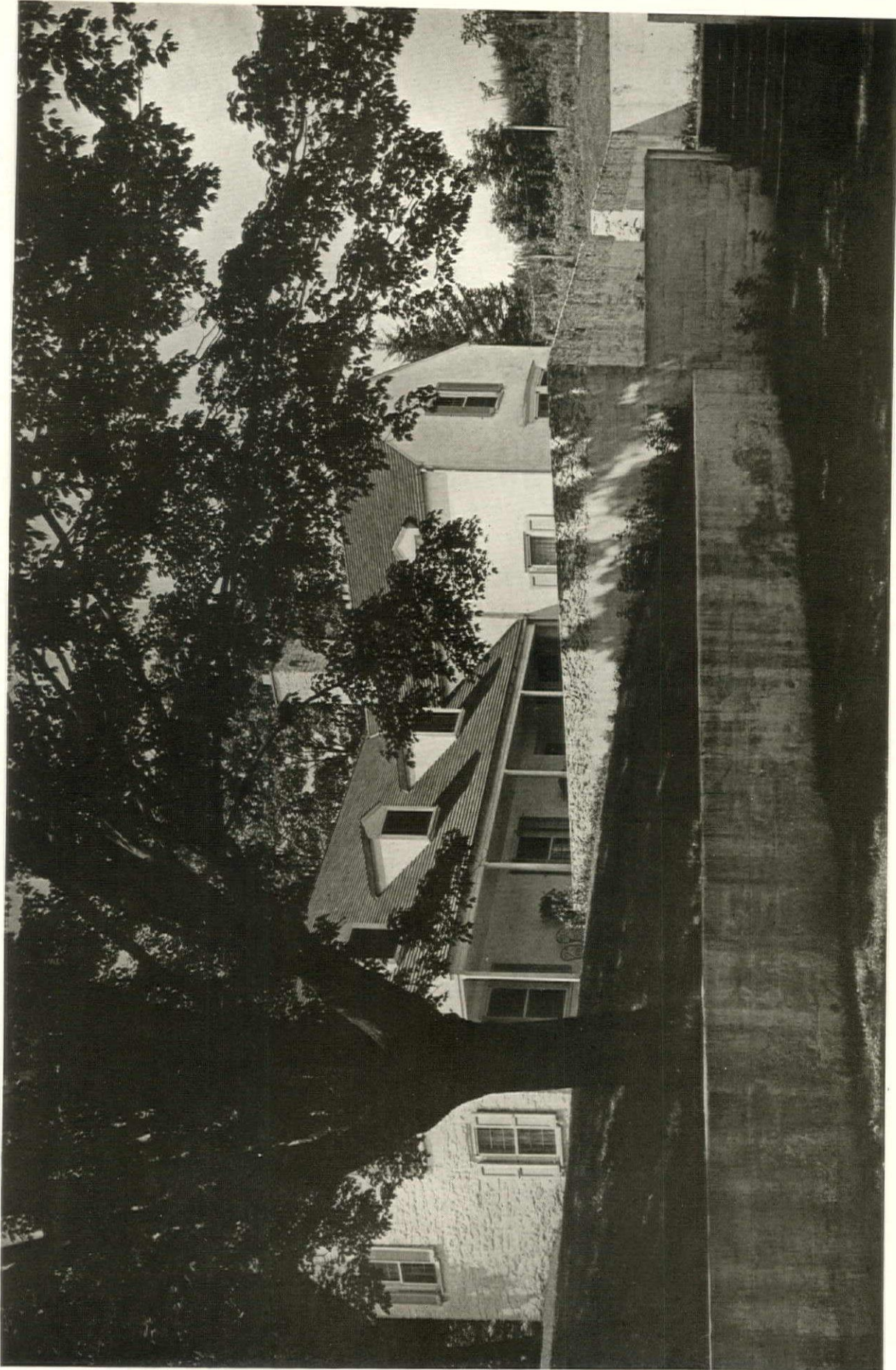


SECOND FLOOR



PLOT AND FIRST FLOOR

PLANS, HOUSE OF MRS. A. C. BALDWIN, BEDFORD HILLS, N. Y.
 BUTLER & CORSE, ARCHITECTS



GARDEN FACADE
HOUSE OF MRS. A. C. BALDWIN, BEDFORD HILLS, N. Y.
BUTLER & CORSE, ARCHITECTS



THE ENTRANCE
HOUSE OF MRS. A. C. BALDWIN, BEDFORD HILLS, N. Y.
BUTLER & CORSE, ARCHITECTS



TERRACE AND GARDEN FACADE
HOUSE OF MRS. A. C. BALDWIN, BEDFORD HILLS, N. Y.
BUTLER & CORSE, ARCHITECTS



END ELEVATION FROM ORCHARD
HOUSE OF MRS. A. C. BALDWIN, BEDFORD HILLS, N. Y.
BUTLER & CORSE, ARCHITECTS



THE DINING ROOM



FIREPLACE END OF DINING ROOM
HOUSE OF MRS. A. C. BALDWIN, BEDFORD HILLS, N. Y.
BUTLER & CORSE, ARCHITECTS



ONE END OF THE LIVING ROOM



A VIEW OF THE LIVING ROOM
HOUSE OF MRS. A. C. BALDWIN, BEDFORD HILLS, N. Y.
BUTLER & CORSE, ARCHITECTS



THE END ELEVATION



DETAIL, ENTRANCE FACADE
HOUSE OF MRS. A. C. BALDWIN, BEDFORD HILLS, N. Y.
BUTLER & CORSE, ARCHITECTS

SMALL BUILDINGS

A Theory Relating to Spanish and Italian Houses in Florida

By HOWARD MAJOR

I HAVE lived in the peninsula of Florida for several years, and for the past decade have been a frequent winter visitor. I have often wished to express an opinion of the error of Florida's ways in architecture, hoping that some good may thereby be done. I suppose naturally there is another side to the question, but personally I consider the houses, and particularly the small, so-called Spanish and Italian buildings, nothing more than aberrations. These bad houses springing up everywhere are a sure indication that the American public and carpenter-builders are fumbling with a foreign element. These same people, given a small Colonial house to build in Florida, would exhibit an intelligent understanding, as is seen elsewhere throughout America. Theoretically, there are stronger reasons why the Latin masquerades should cease. Today Florida is the melting pot of the union, the cosmopolitan state. Should not a cosmopolitan public exhibit a strong nationalism? Should not the house itself be in its national style of architecture? Yet here, staid Florida citizens of the type immortalized by Sinclair Lewis,—realtors, rotarians and chamber of commerce members,—see fit to house themselves in baby pink, Alice blue and sea green houses, which they fondly believe to be of either Spanish or Moorish architecture. Curiously enough, these Babbitts consider their environment appropriate; but to me it is as incongruous as to see them dressed in the habiliments of a sheik or of Don Juan, having no relation to present conditions.

America has, everyone now knows, a fine architectural traditions, that of the colonial period and

of the early republic. It is the architecture which we are further developing today. It is our national style. One may easily go a step further, since the Colonial style was brought over from the mother country, and say that the English-speaking races have a national architecture, differing in expression in various localities, but similar. Granted, then, that we have our national style, can it be adapted to the climatic conditions of the semi-tropics? The houses of eighteenth century Charleston, with verandas and balconies for each floor, are most fittingly suited for Florida's climate. The planters' homes of the early republic throughout the "cotton belt" are admirably planned for the tropical summers throughout Georgia and Alabama. These houses have balconies and verandas between or behind colossal colonnades, either in front of or completely encircling the buildings. These well shaded second-floor balconies would furnish cool retreats for a Florida summer. In these houses the rooms are very high-studded, which, together with shaded facades, ensures cool interiors. With these two types Florida need have no other source to draw from. The public and builder should have a natural understanding of such architecture, and could produce from this precedent creditable architecture for the critic to praise as fulfilling all the requirements.

However, Florida has other sources to draw upon, that if not American, are closely related. The lovely architecture of Bermuda; of Nassau; of Trinidad; of Barbadoes and of Jamaica:—all sister colonies of America in the eighteenth century. Nassau and Bermuda are swept by the same Gulf Stream that

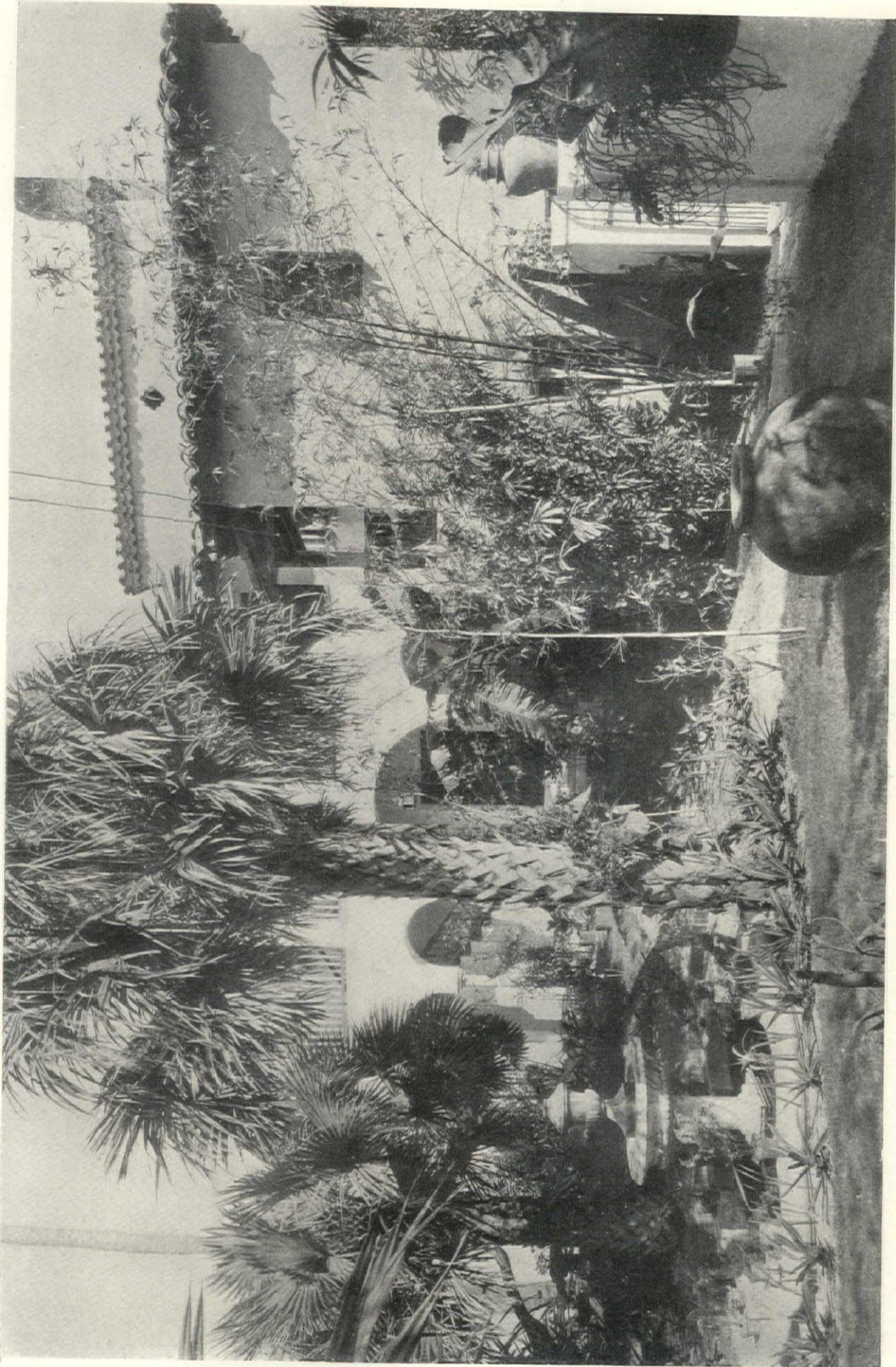


Thousands of examples like this Florida house illustrate the unfortunate results of adopting an architecture unsuited to the temperament of the people



LIVING ROOM, RESIDENCE OF HORACE CHASE, ESQ., PALM BEACH
HORACE CHASE, ARCHITECT

Photos. Pictorial News



GARDEN FRONT, RESIDENCE OF HORACE CHASE, ESQ., PALM BEACH
HORACE CHASE, ARCHITECT



Patio, House of Marion Sims Wyeth, Esq., Palm Beach

makes Florida famous, and all have the same climatic conditions. One often hears: "Why not Spanish architecture in Florida? The Spaniard first settled this section." So he did, and so also did he settle Bermuda, Trinidad, Nassau and Jamaica. Then the Englishman came and pushed him into the sea. But did the Englishman carry on the Spanish tradition? He did not. The English and Latin races have very different ideas. The English race craves fresh air; the Latin studiously avoids it. In a sleeper upon a Latin railroad, have you ever tried to open a window with a Latin in the upper berth? If you never have, I would advise suicide as a more pleasant experience. Just so in their homes; the Spaniard builds a house with splendid wall surfaces,—walls of extreme thickness, and with small windows,—windows that are barred with shutters through the heat of the day, so that the cool, damp air is confined indoors. The Englishman, in the tropics, builds homes fronted with or surrounded by two-story balconies, often latticed to effectively exclude the burning sun, but open to readily allow every breeze to circulate throughout the house. Similarly the American craves fresh air, which is another strong argument for the elimination of Spanish architecture in Florida. Every architect designing a house in Florida remembers the client exclaiming: "I want a Spanish house, but I want



Photos: F. E. Geisler

Loggia, Residence of Marion Sims Wyeth, Esq., Palm Beach
Marion Sims Wyeth, Architect

lots of large windows and sleeping porches." Can you imagine a Spaniard using a sleeping porch? He would consider even the thought barbarous. And how can a house be Spanish in character with many and large windows? It simply can't be so designed.

All this being true, what was the motive behind this Latin movement? About ten years ago an architect from New York was called upon to do a palatial home in Miami. Here was his opportunity for a bully good time,—and he had it; but he did not for a moment consider the havoc it would play within the next decade. Then about nine years ago, another architect migrated to Palm Beach, and built a beautiful club house. In Palm Beach the winter visitors had this artistic edifice to compare with the staid old wooden facades of the "Breakers" and "Poinciana" hotels, and a few shingled "bungalows." At this time it began to be the vogue for wealthy visitors to build winter homes. They, without exception, wanted houses in the Spanish style, like this artistic club. For this wealthy class it had good points;—people who had city and country homes in the north designed in the Georgian style, but who, for their two months in Florida wanted to live in something different. One enjoys the Everglades Club costume ball for the night, but one does not want it for 365 nights in the year. Neither do I believe that this wealthy, educated class would want



Detail, Dining Room, House of Nelson Odman, Esq., Palm Beach



Photos. Mattie Edwards Hewitt

Loggia, House of Nelson Odman, Esq., Palm Beach
Howard Major, Architect

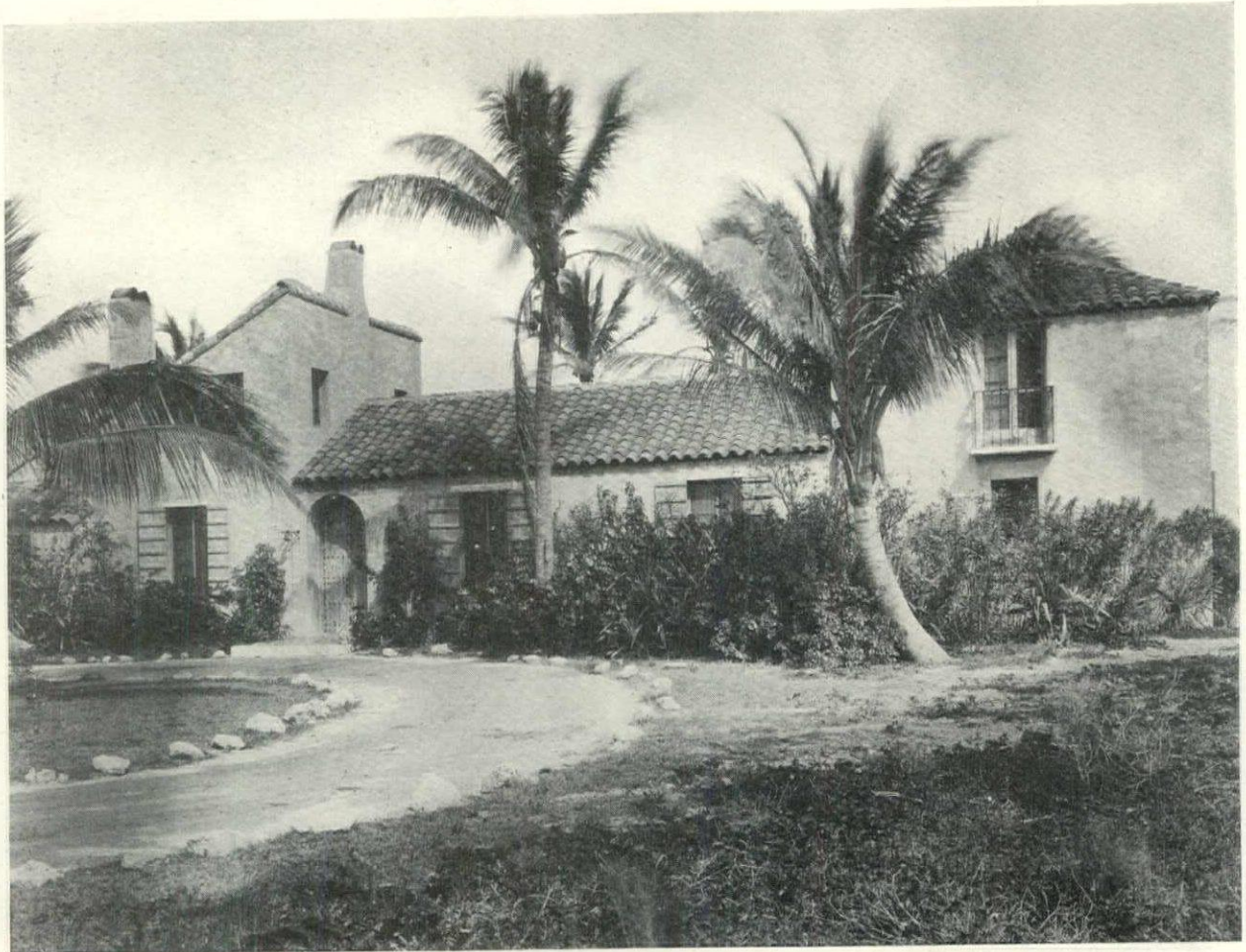


Photos. F. E. Geisler
 "Tap Room," House of George Dobyne, Esq., Palm Beach
 Marion Sims Wyeth, Architect

to live in their Spanish stage settings 365 days in the year. However, the vogue spread like wild-fire, and since it began, every house, irrespective of cost, has been built in this Latin style, so that the pathetic part of it is that the good, wholesome working man does have to live in these abortions 365 days in the year, whether he wishes to or not.

Latin architecture is far easier for the average architect to design than Colonial or Georgian architecture. Basically it is a picturesque style. In the north, if we have an English house to design, it is clearly defined that it shall be either Tudor, Renaissance or Georgian; or if Georgian, late seventeenth century, early eighteenth century, middle eighteenth century, late eighteenth century, or early nineteenth century. If in Florida a Spanish building is to be designed, it is "Spanish" and that is all. Anything from thirteenth century to early nineteenth century is included, and not infrequently in the same house. There seems to be no idea that a building's design should be confined to a period of time. This, I should say, is the paramount objection to the better Florida houses. A natural outcome of this flirting with early Renaissance forms has been the coarsening of houses with bastard ornament in lieu of the well thought out details and composition needed.

I have said that the Spanish is a simple style to design in. Of course I mean as applied to



Photos. Mattie Edwards Hewitt

House of Howard Whitney, Esq., Gulf Stream Golf Club
 Howard Major, Architect

eighteenth century types, for I believe this is the point where we should take up all tradition. Gothic and Renaissance are, from merely economic reasons if for no other, out of the question. First to be considered is of course the plan. The Spanish house, where its size permits, includes a patio, or room without a roof. This patio is the brilliant contribution of the Latin. The patio, being an outdoor room, should have the dimensions of a room. The mistake in the Florida house is that the patio is so large that it is a court rather than an outdoor room. It should approach a square in plan, 25 by 25 being quite sufficient, or 30 by 30 in the largest houses. It should be paved and have potted plants, and not be a garden, as it is in the prevalent Florida interpretation. It may be quite small and still be in excellent taste. Around the patio should be overhanging balconies, loggias and cloisters, for the exterior of the Spanish house is always bare and devoid of such intimacies. The small rectangular house does not allow space to include the patio. A poor substitute, which is often attempted, is completing the enclosure by means of two walls affixed to the small ell-shaped house. The Latin patio is an inside, open-air room. It is surrounded on four sides by the building. This American version of two sides building and two sides wall is a makeshift, and not really in character with its prototype.



Detail, House of George Dobyne, Esq., Palm Beach
Marion Sims Wyeth, Architect



Photo. F. E. Geisler

Patio, House of Maitland Belknap, Esq., "Major Alley," Palm Beach
Howard Major, Architect

After the plan is determined, simple, well proportioned roof masses are to be considered. If the house is large enough, a few picturesque breaks should occur, for the Spaniard knew how to take full advantage of picturesque roof lines. The texture of Spanish tile roofing is so lovely that with a well composed roof the problem is about solved. To complete the design, compose in a direct manner the windows and entrance doorways, relieved, if necessary, by balconies or grilles, and the problem is finished. Cornices are unnecessary, and should not appear in the modest dwelling. Enframed and ornamental doorways are also unnecessary in small houses. If a client's money must be squandered, do it by adapting the lovely iron grilles and balconies of the Spaniard. Another outstanding decorative feature of the Spanish dwelling is the hanging wood balcony with its tiled roof, which usually extends from 3 to 4 feet from the facade on a level with the second floor, the floor beams cantilevered through to carry it. These beams are not of the usual 2 by 12 inches but

range from 6 by 8 to 6 by 10 inches, and are often shaped and carved, but in a simple manner. They terminate carrying a turned railing between chamfered uprights, spaced 7 to 8 feet apart, which, in turn, support corbels, upon which rests the roofing.

Too much cannot be said of the charm and interest of the patio. The exterior of the Latin building is cold and forbidding, but a glimpse through the half-open doors, through the house into the patio, usually shows a lovely garden room of flowers, glazed tiling and fountains. The sense of absolute privacy out of doors, under the tropical blue sky is perhaps its most charming feature. The transformation from bare, austere masonry exteriors to the intimate details of inviting loggias and balconies comes as an unending delight. The desire is universal to have just such a patio, and in the climate of Florida it is justifiable. If Colonial or British West Indian architecture is to supplant the Latin, then we must introduce the patio into it, which is easy to accomplish and entirely appropriate and consistent, and therefore wholly desirable.



Photo. F. E. Geisler

Small Houses in "Major Alley," Palm Beach, Illustrating Use of "British West Indian" Architecture

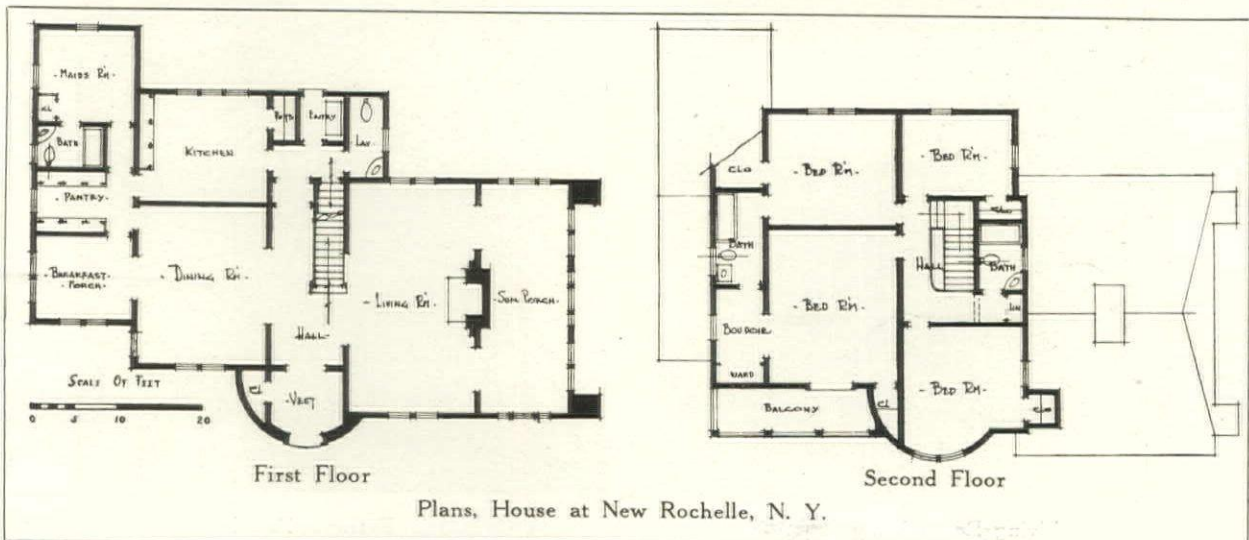
Howard Major, Architect



A HOUSE AT NEW ROCHELLE, N. Y.
D. A. SUMMO, ARCHITECT

THE much-discussed question as to the appropriateness of the use of Spanish and Italian architectural styles for houses located in the New England and middle states will not be taken up in considering this group of small houses which follow in design what is often termed today "Mediterranean" architecture. There are rugged picturesqueness and consistency in scale which commend the design of this house in New Rochelle to favorable attention. Heavy red tile roof, rough-finished stucco, crude wood window shutters and heavily

framed overhanging balcony give this house a character strongly suggesting the farmhouses of northern Italy. Another pleasing variation from the usual small house is in the irregularity of the plan. This to a certain extent is suggested in the elevations. In the semi-circular bay or half tower on the first floor is located an entrance vestibule leading into a center stair hall. A living room and sun porch occupy the low one-story wing at the right of the front door. A dining room and kitchen, together with a breakfast porch, pantry, maid's room and bath occupy the



FORUM SPECIFICATION AND DATA SHEET—128

House at New Rochelle, N. Y.; D. A. Summo, Architect

OUTLINE SPECIFICATIONS

EXTERIOR MATERIALS:

Stucco.

ROOF:

Tile.

WINDOWS:

Wood.

FLOORS:

Hardwood.

HEATING:

Hot water.

PLUMBING:

Enameled fixtures.

ELECTRICAL EQUIPMENT:

Lighting

INTERIOR MILL WORK:

Chestnut.

COST PER SQUARE FOOT:

\$60.

DATE OF COMPLETION:

June 1, 1926.

space on the first floor at the left of the entrance. Stairs to the cellar lead down under the main stairway. A small lavatory is located at the back of this stair hall, adjacent to a rear entry, the door of which opens onto a graveled forecourt. The illustrations included here are all of the front of the house, and so do not show the rear entrance. On the second floor are four bedrooms, a boudoir and two baths, all of which come in the main part of the house, over the front hall, dining room, pantry and kitchen.

The treatments of the windows in the living room and sun porch are not particularly Italian or Spanish, but they indicate a concession to the

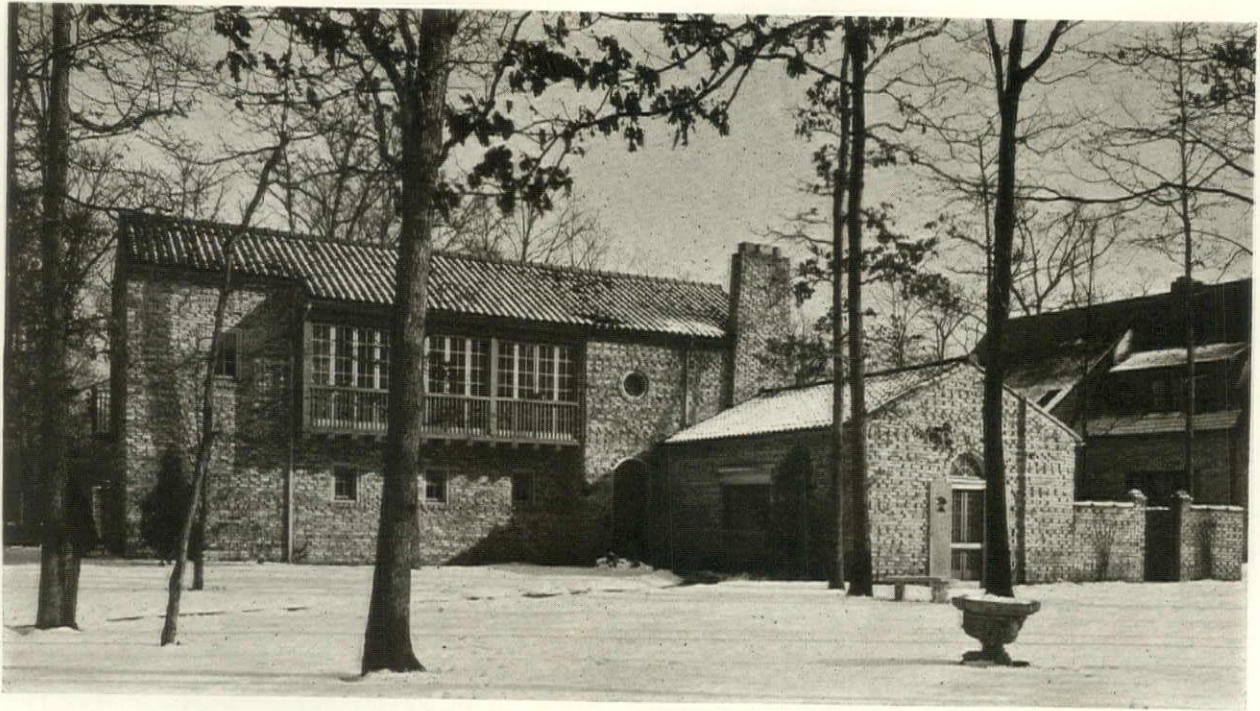
demand of most clients today that there shall be as much light and air as possible in a country house. The extension of the main walls of the house beyond both the sun porch and the corners of the main part of the building may add an unusual touch to the design, but hardly serves any logical or consistent purpose, with the exception of the buttress-like projection on the upper corner of the second story, which gives space for a closet to the bedroom located at this corner. The use of these buttresses prevents the unbroken continuation of the wide overhanging eaves, which treatment adds much picturesque charm to many houses built in the Mediterranean style.



Living Room Wing



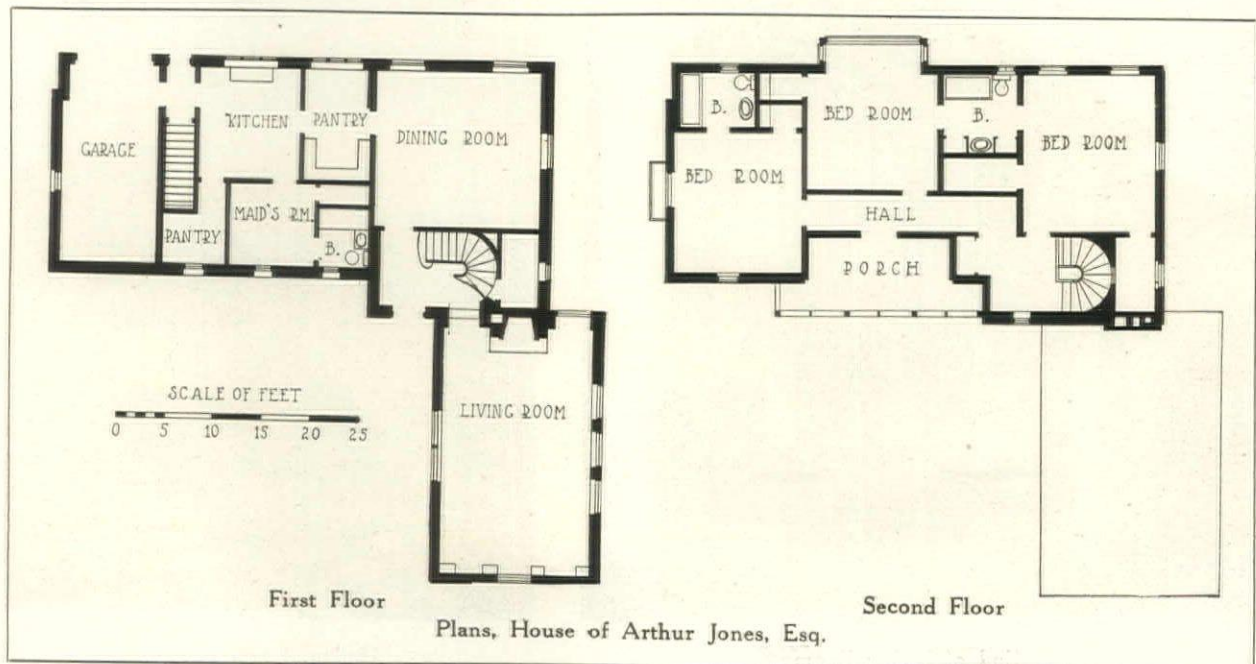
Entrance Facade



HOUSE OF ARTHUR JONES, ESQ., GLENCOE, ILL.
JAMES ROY ALLEN, ARCHITECT

IT is interesting to note the many different materials used for the exterior walls of houses designed in the Spanish and Italian styles. Except for the desire to obtain an interesting texture for the wall surfaces of buildings in these types there can hardly be said to be any precedent for the use of "skintled" brick for the walls of Italian houses. However, the result obtained is sufficiently effective to justify the use of this most modern and latest type of brickwork. In the case of this house near Chicago the general proportions, outline and design indicate sufficiently the style from which it is derived. Whether this house would seem more truly

Italian had rough-textured stucco been used for the exterior walls is open to question. The front elevation shows a carefully studied and attractive arrangement of small windows and glassed-in second-story loggia. Undoubtedly in summer, when the glass sashes are removed from this loggia, the effect of the design is still more Italian. The location of this long loggia in relation to the entrance door and the sturdy end chimney is excellent; also the sparing use of windows, as well as their small sizes, deserves commendation and consideration. It is possible that the effect of the long, low living room window, which projects slightly from the building and has



FORUM SPECIFICATION AND DATA SHEET—129

Residence of Arthur Jones, Esq., Glencoe, Ill.; James Roy Allen, Architect

OUTLINE SPECIFICATIONS

EXTERIOR MATERIALS:

Common brick, laid up rough ("skintled").

ROOF:

Tile.

WINDOWS:

Wood, casement.

FLOORS:

Tile in hall; wood in living room.

HEATING:

Vapor.

PLUMBING:

Enameled fixtures.

ELECTRICAL EQUIPMENT:

Lighting.

INTERIOR MILL WORK:

Walnut in living room. Painted birch elsewhere.

INTERIOR DECORATIVE TREATMENT:

Painted plaster.

APPROXIMATE CUBIC FOOTAGE OF BUILDING:

41,000.

COST PER CUBIC FOOT:

50 cents.

YEAR OF COMPLETION:

1924.

interesting leaded glass carried out in the Italian manner, would have been somewhat more in keeping with this style had the wide opening been divided by stone colonnettes or by brick mullions. The arched-top casement door at the end of this living room, with its wood muntins which seem rather more Colonial than Italian in character, is effectively placed as the only opening at the end of this one-story living room wing. The design has considerable charm.

In plan the house is as interesting as it is in elevation. The entrance door leads into a small hall with circular stairway, beyond which is a well proportioned square dining room. In the main part of the first floor are located the pantry, kitchen, maid's room and bath and a one-car garage which opens into the court at the rear of the house. This garage

is conveniently reached through a rear entrance hall, so that in winter it is unnecessary for the owner to go outside of the building. The second floor plan shows three good sized bedrooms and two baths. The closets indicated with these bedrooms are all unusually spacious. The sleeping porch or covered loggia is well located, opening off the second floor hallway, thus making it accessible without the necessity of passing through any of the bedrooms. One bedroom possesses an attractive bay window. Unfortunately, there is no illustration showing the exterior elevation of this window, which is at the rear of the house. It seems probable that this rear elevation, with the garage doors and this overhanging bay window, must be almost as interesting architecturally as the front elevation shown here.



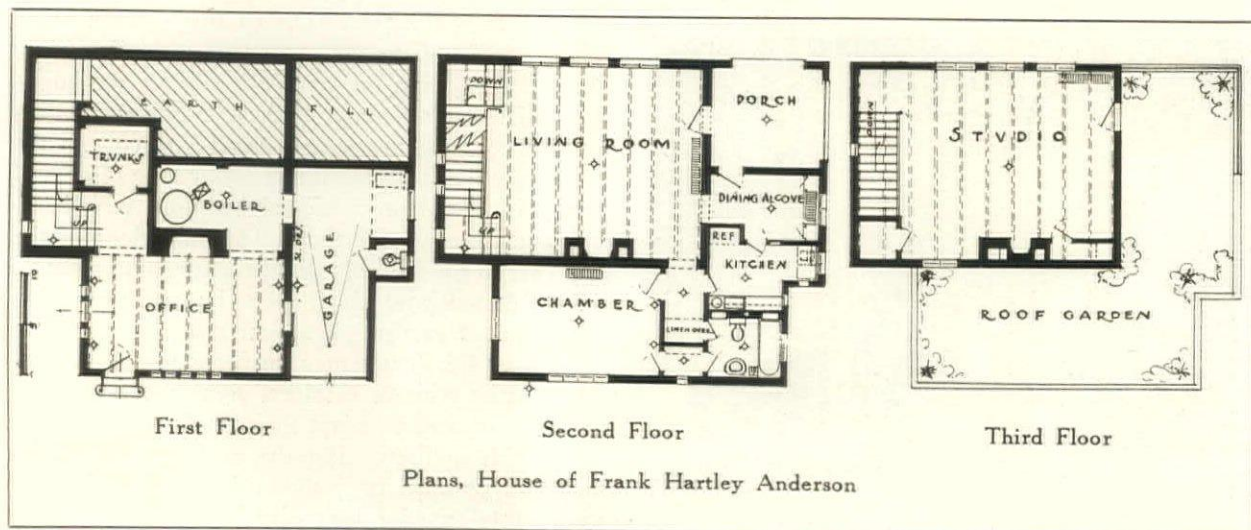
End of Living Room



Hall and Stairway



HOUSE OF FRANK HARTLEY ANDERSON, BIRMINGHAM, ALA.
FRANK HARTLEY ANDERSON, ARCHITECT



FORUM SPECIFICATION AND DATA SHEET—130

House of Frank Hartley Anderson, Architect, Birmingham, Ala.

OUTLINE SPECIFICATIONS

GENERAL CONSTRUCTION:

Reinforced concrete and hollow tile.

EXTERIOR MATERIALS:

Stucco; stone pilasters.

ROOF:

Concrete tile.

WINDOWS:

Casements throughout; cypress, leaded.

FLOORS:

Reinforced concrete; cork tile on second floor; composition on first floor.

HEATING:

Vacuum steam; fuel oil burner. Automatic gas heater for water.

PLUMBING:

Enameled iron except toilet, porcelain.

ELECTRICAL EQUIPMENT:

Lighting and electric range, dishwasher, refrigerator, mixer, etc.

INTERIOR MILL WORK:

Doors are fir; brick mouldings around doors and windows.

INTERIOR WALL FINISH:

Plaster, sand-floated and painted.

INTERIOR DECORATIVE TREATMENT:

Rough oak beams and ceiling in three rooms, stained silver gray.

APPROXIMATE CUBIC FOOTAGE OF BUILDING:

30,000.

COST PER CUBIC FOOT:

51 cents.

DATE OF COMPLETION:

February 6, 1924.

KNOW a man by the books he reads and the friends he keeps" is no more true than "know an architect by the house he designs for himself." In Birmingham, Frank Hartley Anderson has recently completed his own house, which although small is of unusual interest and distinction. He has taken an irregular shaped, hillside lot and built a house to fit the unusual and difficult topography. From the lower street, on which the house really faces, it rises in two simple masses, one lower than the other, to a crowning cornice and overhanging roof of Spanish tile. It is the simplicity of these two adjoining rectangular buildings, with their rough-textured stucco and few but well placed and fanciful window and door openings, which wins this house one's commendation. The elevation of the lower part of the front facade terminates with an interesting roof garden above the second story, an attractive treatment possible only in a mild climate seldom visited by snow or extreme cold. The design of

this main elevation might have been slightly improved had it been possible to place the arched doorway of the garage the same distance from the corner near which it is located as is the main entrance door from the opposite corner of the building. The narrow lancet windows, of which five are grouped at the right of the entrance door, and one in the wall of the second story, give a distinctly mediæval touch to the design. It is feared that the small number and sizes of the window openings would hardly suit the type of client usually encountered by the architect of today. The general public has not as yet been educated up to an appreciation of the beauty of the plain wall surfaces of "Mediterranean" buildings.

With such an interesting and unusual exterior, it is not surprising to find the plan of the interior equally out of the ordinary. The first or ground floor of the building contains a good sized office, which connects by a fireproof door with the garage at one side, and through an open archway with a boiler room at the rear. Off of this office a wood stairway leads up to the second or main floor into a large living room on the south side of the building. Off this room opens a corner porch and a dining alcove connecting with a small kitchen. At the back of the living room, directly above the office and garage, is a well proportioned bedroom with bathroom and closets connecting. The third floor of the main part of the house is devoted entirely to a studio of large dimensions, which opens by casement doors onto the roof garden. Practical and convenient as the plan of this house may be for a married architect or artist without children, some rearrangement would be required to adapt the plan for the use of a family with children. But the evidence of individuality and personal taste shown both in the interior as well as the exterior design justifies its unusual plan.



Office, House of Frank Hartley Anderson



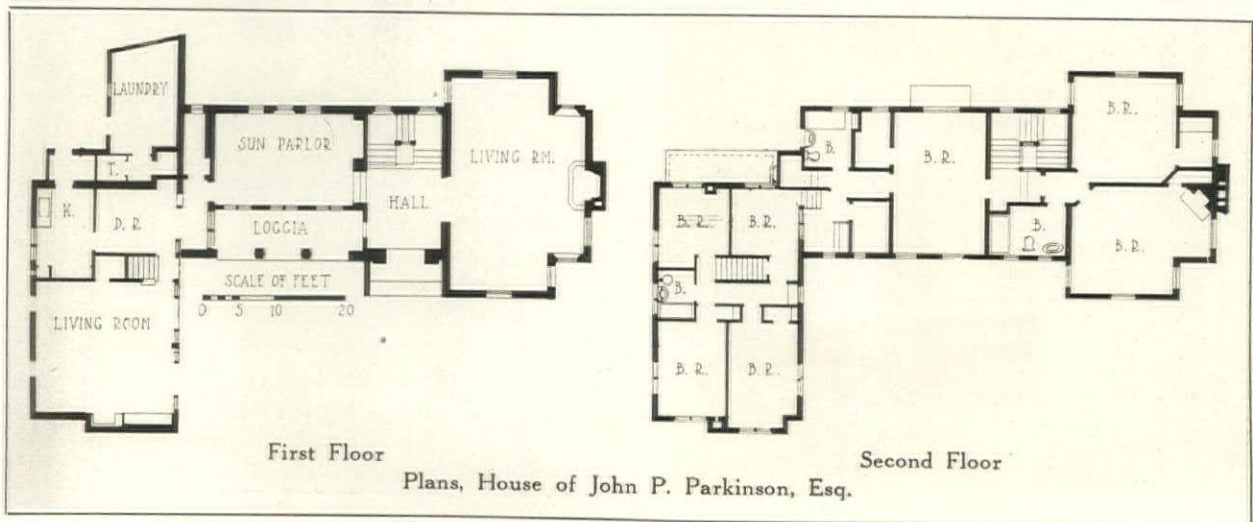
Above, Entrance Facade; Below, Garden Front



HOUSE OF JOHN P. PARKINSON, ESQ., SANTA MONICA, CALIF.
JOHN P. AND DONALD B. PARKINSON, ARCHITECTS

AGAIN we have a house designed by architects, two, father and son, and for their own occupancy. It is always interesting to note what sort of a house an architect builds for himself, as the ideas and preferences of clients greatly influence and handicap an architect in designing their houses. When building for himself, he has an opportunity of trying architectural effects and experiments in colors, plan and design, which he is seldom able to attempt in the house of a client. This Italian house at Santa

Monica has real distinction and dignity, and it is only regretted that lack of space prevents the publication of more illustrations of this excellent example of domestic architecture. The tall triple arches of the entrance loggia pleasantly dominate the front elevation, and adequately light the large center sun parlor. In general the design of the house suggests those of many of the smaller Tuscan villas, with their dominating central buildings and projecting wings. The center stair hall, extending through the



FORUM SPECIFICATION AND DATA SHEET—131
House of John P. Parkinson, Architect, Santa Monica, Calif.

OUTLINE SPECIFICATIONS

GENERAL CONSTRUCTION:

Reinforced concrete foundation, hollow tile bearing walls, wooden floor and roof construction.

EXTERIOR MATERIALS:

Stucco.

ROOF:

Clay tile.

HEATING:

Gas hot air furnace and fireplace.

PLUMBING:

Standard bathrooms; water softening system; circulating hot water system.

ELECTRICAL EQUIPMENT:

Lighting and stove, water heater, washing machine, auxiliary electric pumps for domestic water system.

INTERIOR MILL WORK:

Oak and redwood for stained surfaces. Douglas fir and pine for those painted.

INTERIOR WALL FINISH:

Stained redwood and paint on smooth plaster.

DECORATIVE TREATMENT:

Subdued in color.

APPROXIMATE CUBIC FOOTAGE OF BUILDING:

75,000.

house, is entered through the main door located at the right of the high vaulted loggia. On the right of this stair hall is a living room, 30 by 19 feet, with a large fireplace in the long wall. On the opposite side of the main hall three steps lead down into a sun parlor, which occupies the center of the main part of the house. Beyond this room a doorway connects with the eastern wing, which is a complete house in itself, containing on the first floor, a living room, dining room, kitchen and laundry. Above

these rooms are four bedrooms and a large bathroom. Over the main part of the house and the western wing are three large bedrooms and one bath. From the illustration of the rear elevation of the house some idea may be obtained of the beauty of its high location. The Pacific Ocean lies a half mile distant to the southwest, while on the other side, beyond a canyon, or ravine as it would be called in the east, are the Santa Monica Mountains, which stretch for 50 miles along the coast to the northwest.



Entrance Hall, Stairway and Part of Living Room



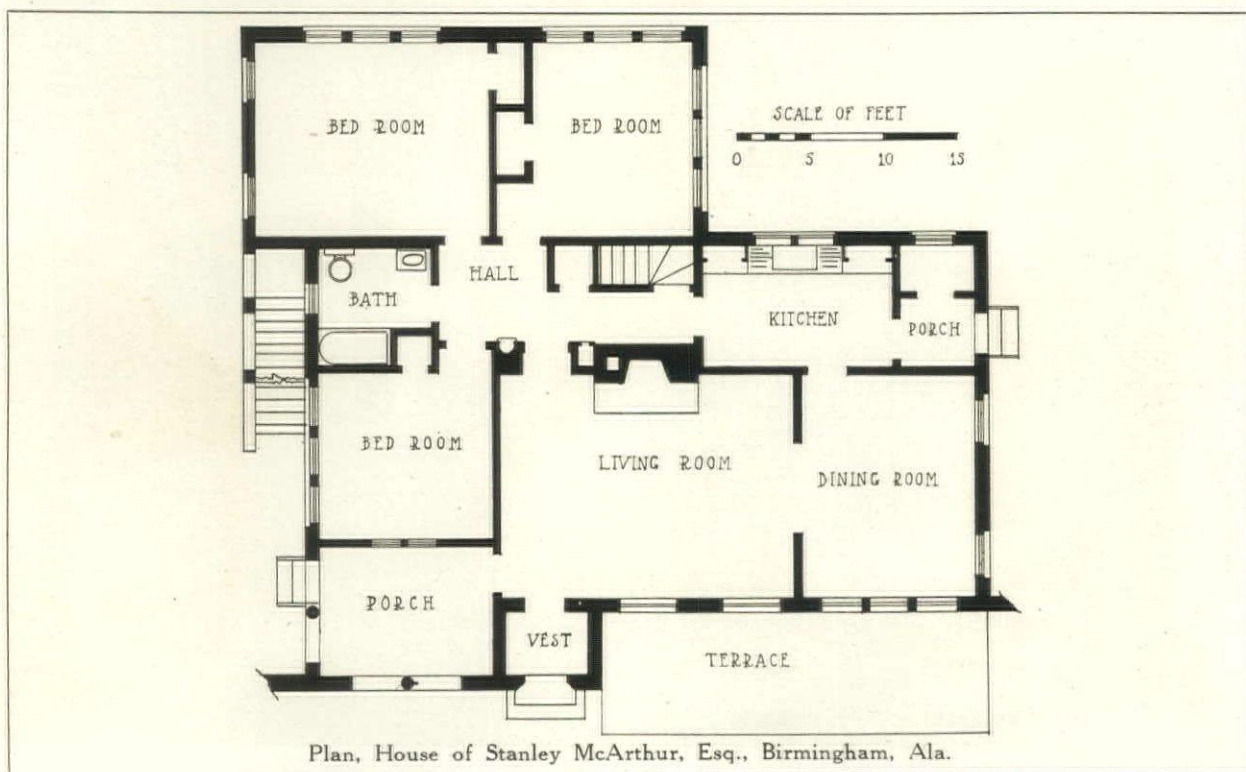
Photos. Tebbs & Knell, Inc.

HOUSE OF STANLEY McARTHUR, ESQ., BIRMINGHAM, ALA.
GEORGE P. TURNER, ARCHITECT

IT is always refreshing to find a new interpretation of the "Mediterranean" style, so-called, exemplified in this small one-story house in Alabama. The low and simple effect of the front elevation would suggest somewhat the architecture of the Near East, on account of the flat roof and exterior stairway leading to it, were it not for the double-hung

windows and casement doors used in the living and dining rooms. The low, tile roofed entrance vestibule makes a pleasant break in the length of the facade, as does also the double-arched window of the covered porch at the left of the vestibule, as illustrated.

The plan indicates that the house is, perhaps, larger than would be imagined from the front eleva-



FORUM SPECIFICATION AND DATA SHEET—132

House of Stanley McArthur, Esq., Birmingham, Ala.

OUTLINE SPECIFICATIONS

GENERAL CONSTRUCTION:

Concrete foundation and footings. Concrete and hollow tile walls. Wood floors.

EXTERIOR MATERIALS:

Stucco.

ROOF:

Built-up roofing and roofing tile.

WINDOWS:

White pine, double-hung and casements.

PLUMBING:

Enameled fixtures.

ELECTRICAL EQUIPMENT:

Flexible conduit wiring for lighting.

INTERIOR MILLWORK:

Yellow pine.

INTERIOR WALL FINISH:

Sand-finished and sponge-finished plaster.

INTERIOR DECORATIVE TREATMENT:

Painted walls. Beamed ceiling in living room.

APPROXIMATE CUBIC FOOTAGE:

27,248.

COST PER CUBIC FOOT:

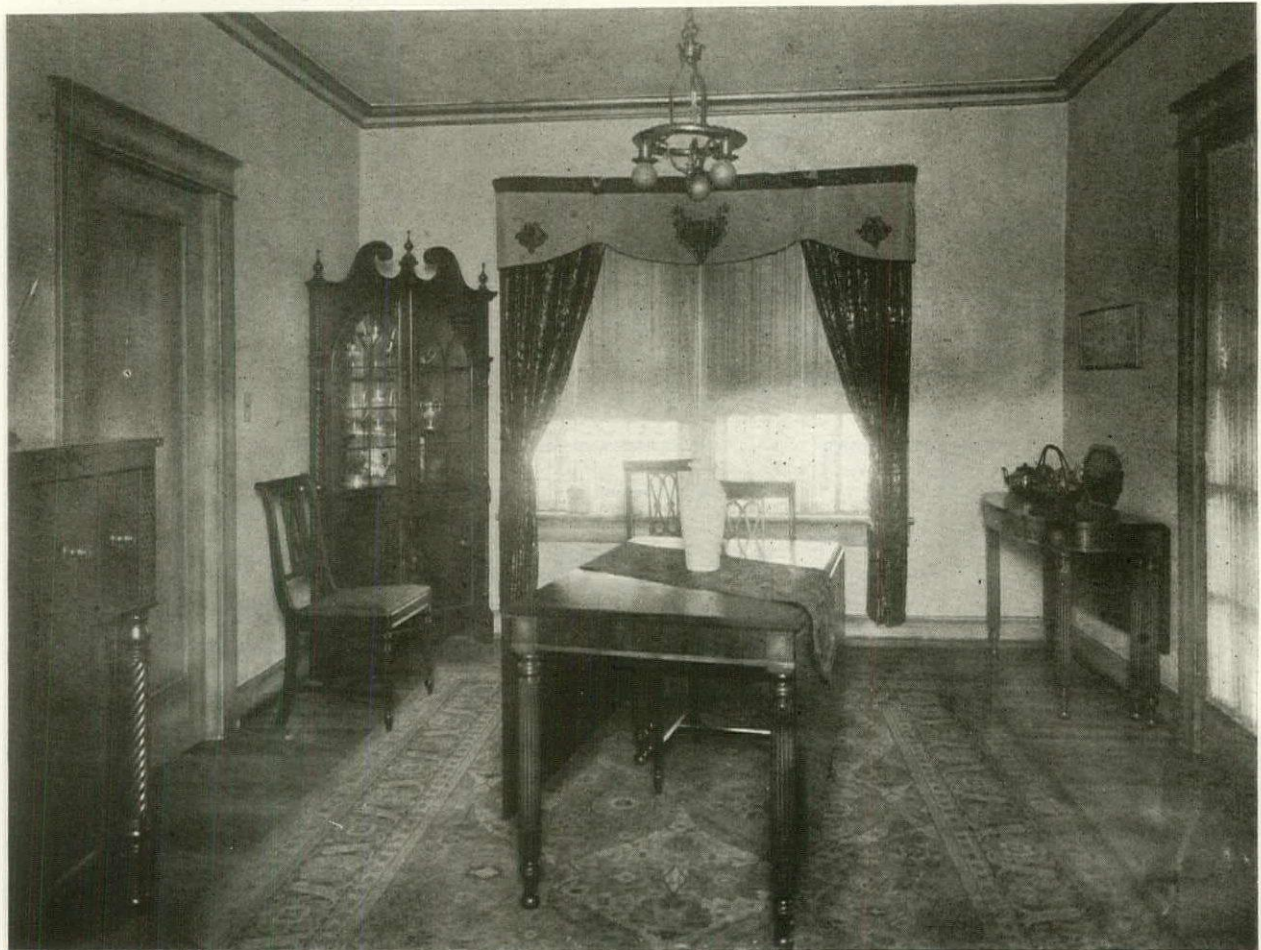
35 cents.

DATE OF COMPLETION:

September, 1925.

tion. Three bedrooms and a bathroom are grouped at the side and rear of the living room, accessible to it but sufficiently isolated to secure adequate privacy. The kitchen is small and opens directly into the dining room, a convenient location for a young housekeeper, so many of whom prefer to do their own work rather than struggle with the servant problem. The bedrooms are so located that each has spacious windows on two sides, a very desirable arrangement for a one-story house with a flat roof. If sufficient air space is left between the flat roof and

the ceilings of the rooms below, there should be no difficulty in keeping cool in summer. The view of the dining room, shown here, indicates that no attempt at creating Spanish or Italian atmosphere in the furnishing and decorating of this house has been made. All of the furniture as shown appears to be excellent reproductions in mahogany of the late Colonial type, which attractively furnishes any small modern dining room, though in this case it gives no suggestion of the architectural style from which the design of the exterior of the house has been derived.



The Dining Room

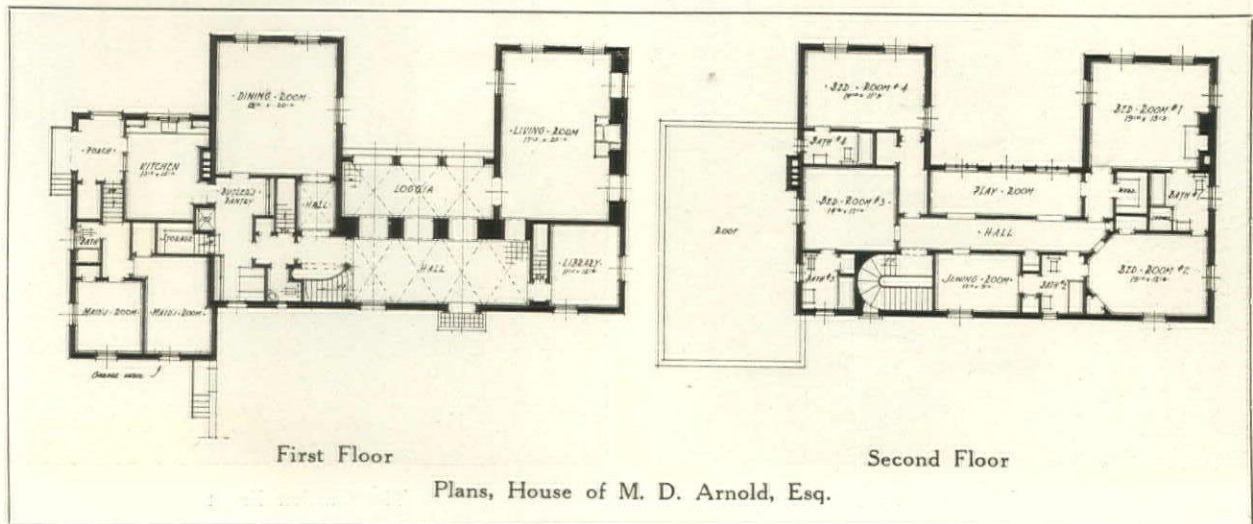


Photos. Tebbs & Knell, Inc.

HOUSE OF M. D. ARNOLD, ESQ., KNOXVILLE, TENN.
BARBER & McMURRAY, ARCHITECTS

HERE is a house decidedly homelike and attractive in design, which suggests in general outline and proportions the small villas around Florence. The entrance door in its architectural detail also suggests Italian precedent, but the spacious, double-hung windows, each with its 24 small panes and wood muntins, could have been derived from no architectural type but the Colonial. However, the effect of this combination of Italy and New England is decidedly homelike and pleasing. The location of the rain water leaders as well as of the single iron-grilled window on the front elevation indicates the care and thought which went into the study of this problem and which achieved such satisfactory re-

sults. This house is a noteworthy proof of the now generally admitted fact that absolute adherence to any one architectural style is not necessary in order to secure a thoroughly architectural and pleasing design. As the house stands on sloping ground, it was possible to drop the level of the service wing considerably below that of the main structure. This difference in height is further emphasized by the high tiled roof of the main house and the low, flat-roofed service wing. Under this wing, on a level considerably below that of the entrance court, is located a large garage, well concealed, as is the servants' yard also, by a high stucco-covered wall. The front door opens into an attractive oblong



FORUM SPECIFICATION AND DATA SHEET—133

House of M. D. Arnold, Knoxville, Tenn.; Barber & McMurray, Architects

OUTLINE SPECIFICATIONS

GENERAL CONSTRUCTION:

Hollow tile walls; wood floors.

EXTERIOR MATERIALS:

Stucco walls; tile roof.

ROOF:

Tile.

WINDOWS:

Double-hung, cypress.

FLOORS:

Oak and 8 x 8 tiles.

HEATING:

Vapor.

PLUMBING:

Enameled fixtures.

ELECTRICAL EQUIPMENT:

Lighting.

INTERIOR MILL WORK:

Birch, oak and pine.

INTERIOR WALL FINISH:

Sand-finished plaster.

DECORATIVE TREATMENT:

Paint.

APPROXIMATE CUBIC FOOTAGE OF BUILDING:

90,000.

COST PER CUBIC FOOT:

45 cents.

DATE OF COMPLETION:

January, 1924.

hall, out of which a vaulted loggia is reached through three arched openings. Thus, when one enters the main hall from the forecourt, a delightful vista is obtained of this typical Italian loggia with its terraced garden beyond. The living room, of excellent proportions, opens off of this loggia on the right, while on the left is the dining room with connecting pantry. The maids' rooms and bath, as well as the kitchen and service porch, located in the second floor of the

service wing, are only one step below the main floor level. For a country house of moderate size this plan is recommended for careful study and emulation. The second floor is equally well arranged, with four large master bedrooms and four baths and a sewing room, all directly accessible from the main hall. Particular attention is called to the excellent location and plan at the end of the main hall. The enclosed stairway treatment is distinctly Italian.



The Hallway



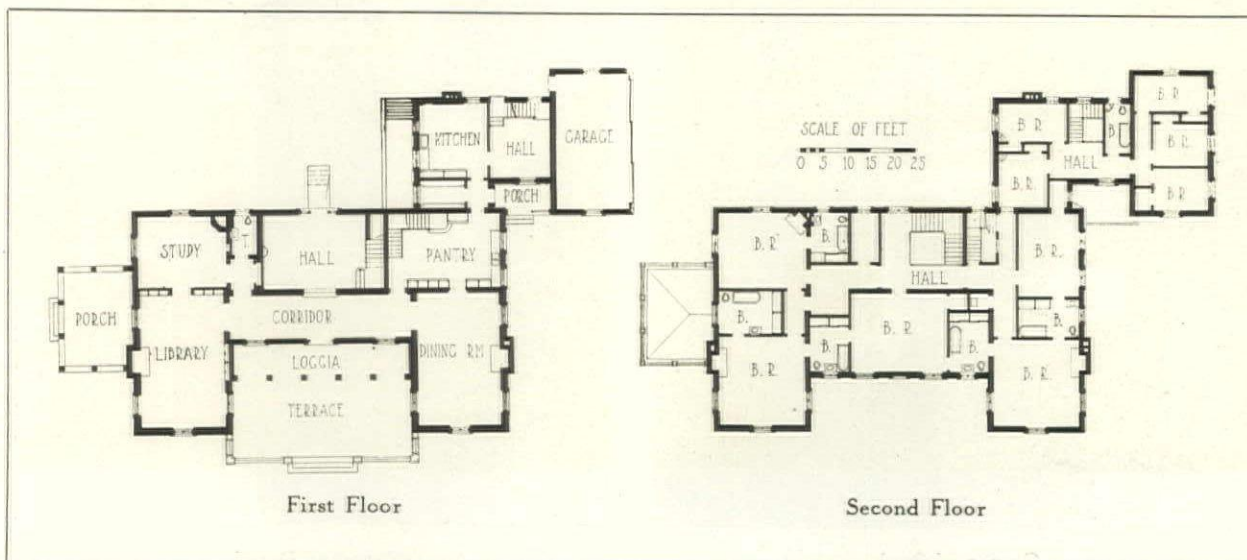
The Garden Front



HOUSE OF HENRY E. BASKERVILL, ARCHITECT, RICHMOND, VA.

A GAIN we have to consider an architect's house designed by himself. This house is rather more pretentious in size, detail and interior finish than some already considered in this group of houses, all of which suggest at least some influence of Italian

or Spanish architecture. There is, however, a pleasing straightforwardness and simplicity in the design of this comfortable, homelike looking house, which decidedly expresses a spirit of culture and refinement. An entrance loggia containing five arches



FORUM SPECIFICATION AND DATA SHEET—134

House of Henry E. Baskervill, Architect, Richmond, Va.

OUTLINE SPECIFICATIONS

GENERAL CONSTRUCTION:

Brick walls; fireproof first floor and wood floor joists above first floor.

EXTERIOR MATERIALS:

Stucco on brick, with limestone trimmings.

FLOORS:

Oak and teak parquet in first floor rooms; brown tile in halls, and pine in bedrooms.

PLUMBING:

Enameled fixtures.

ELECTRICAL EQUIPMENT:

Wired in conduit.

INTERIOR MILL WORK:

Mahogany in dining room; gum in balance of first floor and second floor halls. White woodwork; mahogany doors in bedrooms.

INTERIOR WALL FINISH:

Paneling and plaster.

DECORATIVE TREATMENT:

Marble stair with iron handrail.

APPROXIMATE CUBIC FOOTAGE:

157,000.

COST PER CUBIC FOOT:

34 cents.

YEAR OF COMPLETION:

1914.

opens into the long vaulted corridor which connects the library at one end of the house with the dining room at the other. These spacious and well proportioned rooms are equal in size. Back of the dining room an unusually large pantry leads to the kitchen and service department at the rear. Joining the kitchen wing is a garage for three cars. Back of the library is a small study, an illustration of which is included in this presentation. The decorated beam ceiling, the rough plastered walls and the quaint corner fireplace with its quarter-conical hood are Italian features worthy of note. At the side of the

library a large, brick-paved, covered porch adds comfort and convenience. To the plan of the second floor of his house, Mr. Baskervill also devoted much care and study. Bathrooms separate the bedrooms, and are arranged with doorways in such a manner that access to them may be had throughout the entire group of five bedrooms without the necessity of entering the open stair hall or north and south passageways. A more logical, convenient or pleasing bedroom floor plan can hardly be imagined. It is most truly an architect's plan, showing as it does unusual economy of space and remarkable balance in design.



Corner of Study



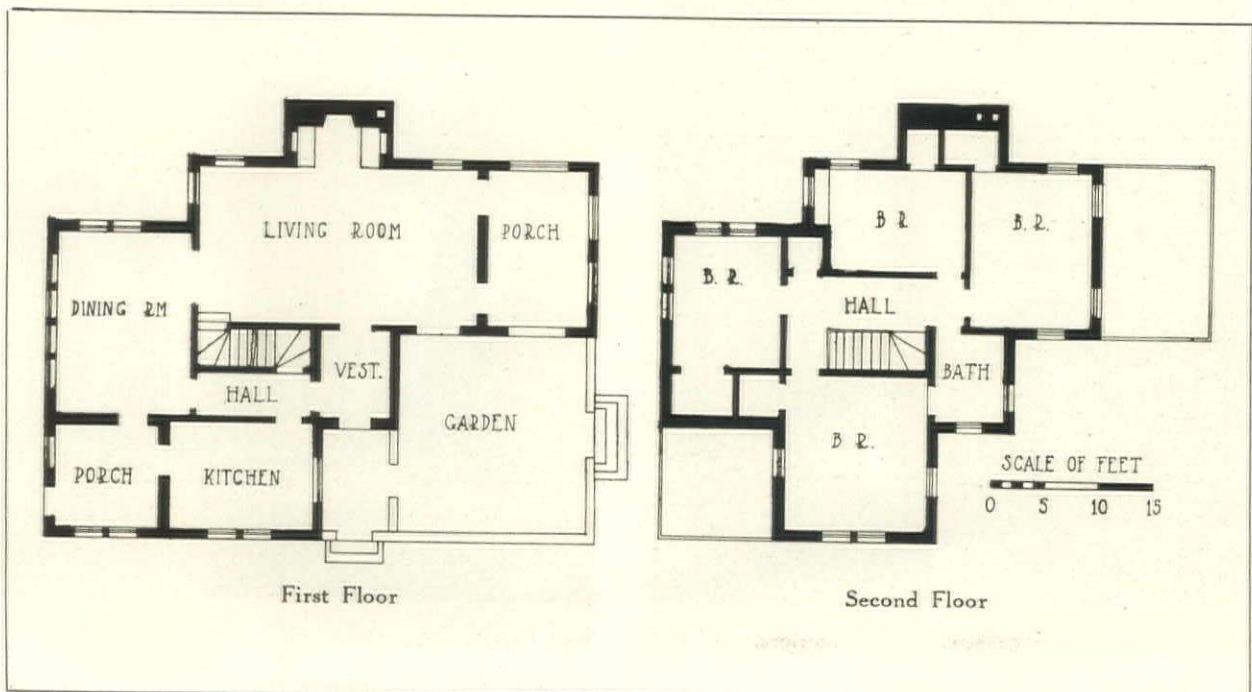
Entrance Detail



HOUSE OF KEY FOSTER, ESQ., BIRMINGHAM, ALA.
 GEORGE P. TURNER, ARCHITECT

ONE of the houses recently completed at Hollywood, near Birmingham, Ala. from the designs of George P. Turner, architect, is this two-story, stucco-covered house which shows much originality in its design. It might be preferred that the two groups of double windows had been of equal size and, together with the single window under the gable of the roof, treated with metal casements and old glass suggesting Italian precedent, but it must be confessed that the design and location of the

house are sufficiently out of the ordinary to warrant its consideration as an interesting example of small house architecture. The setting of the house against a background of pines is most effective and in itself justifies the unusual facade and wall treatment of the front elevation. These walls seem to end rather abruptly, and it is to be hoped that when this house is purchased and occupied they may be carried back into the forest. As is so often the case with houses built on speculation, there were not sufficient funds



FORUM SPECIFICATION AND DATA SHEET—135

House of Key Foster, Esq., Birmingham, Ala.

OUTLINE SPECIFICATIONS

GENERAL TYPE OF CONSTRUCTION:

Concrete foundation and footings. Concrete and hollow tile walls. Wood floors.

EXTERIOR MATERIALS:

Stucco.

ROOF:

Built-up roofing and roofing tile.

WINDOWS:

Pine, 12-light, double-hung and casements.

PLUMBING:

Enameled fixtures.

ELECTRICAL EQUIPMENT:

Flexible conduit wiring.

INTERIOR MILLWORK:

Yellow pine.

INTERIOR WALL FINISH:

Sand-finished and sponge-finished plaster.

INTERIOR DECORATIVE TREATMENT:

Painted walls.

APPROXIMATE CUBIC FOOTAGE:

39,055.

COST PER CUBIC FOOT:

38 cents.

DATE OF COMPLETION:

October, 1925.

available to carry out logically and consistently many of the architectural and decorative details which make or mar a design. Small details are important.

As the illustration of the exterior of this house indicates, the plan is irregular and amusing. The windows shown on the front elevation open into the kitchen and upon the dining room porch. The surprising lack of kitchen closets and any pantry indicated on the accompanying sketch plan has undoubtedly been rectified by the prospective owner. This omission may not be a mistake, since no two housekeepers have the same ideas about the locations of kitchen pantries, closets, sinks and dressers.

The dining room in this house probably has a charming outlook into the pine grove at the side and rear, this being true also of the living room and living porch, both of which are located at the back of the house. The high wall at the right of the entrance door encloses a square, formal garden. The location of the entrance drive and garage so necessary to a suburban house is not shown, but, undoubtedly, would be considered by an architect who could devise so clever a plan as this. The plan of the second floor shows four well arranged bedrooms and one bath. The latter opens not only off the hall but also off the principal and largest of the four bedrooms.



Interiors, Residence of Key Foster, Esq.

INTERIOR ARCHITECTURE

The Dining Room at Compiegne

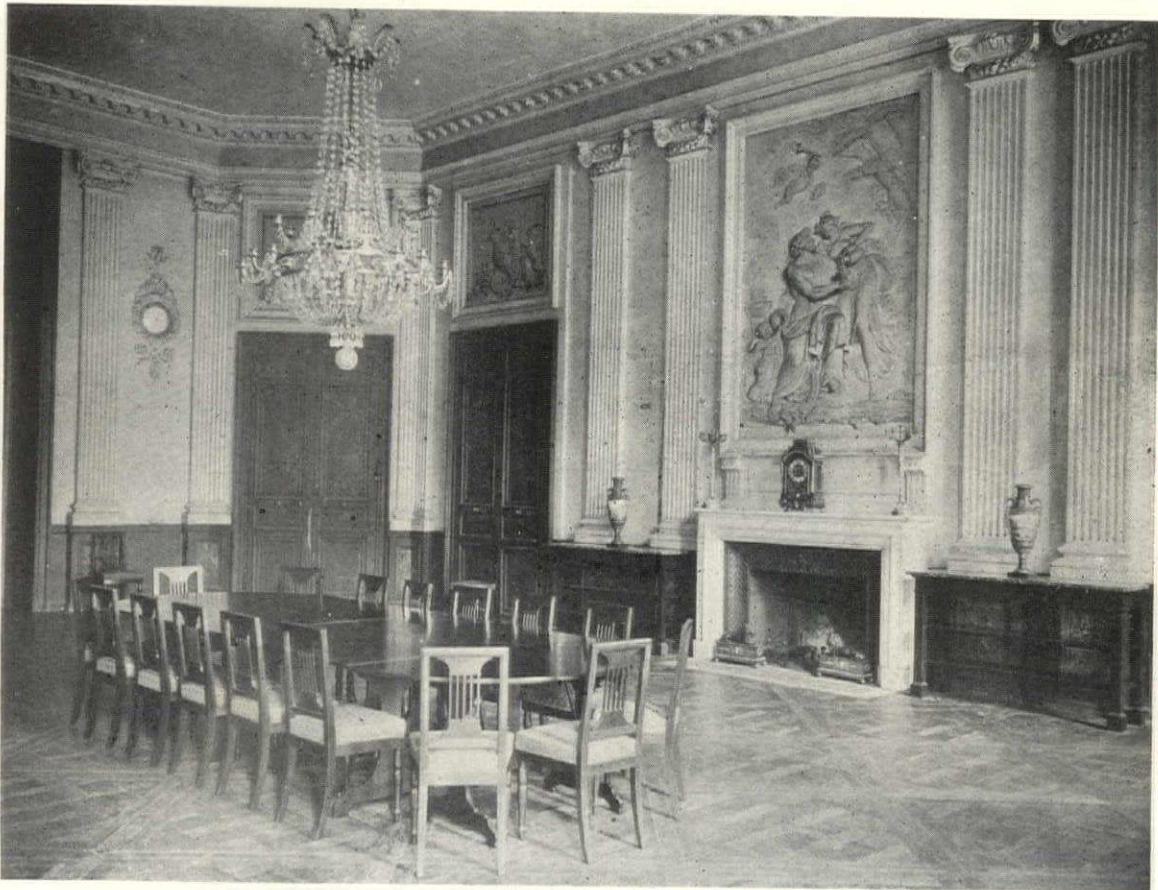
By C. HAMILTON PRESTON

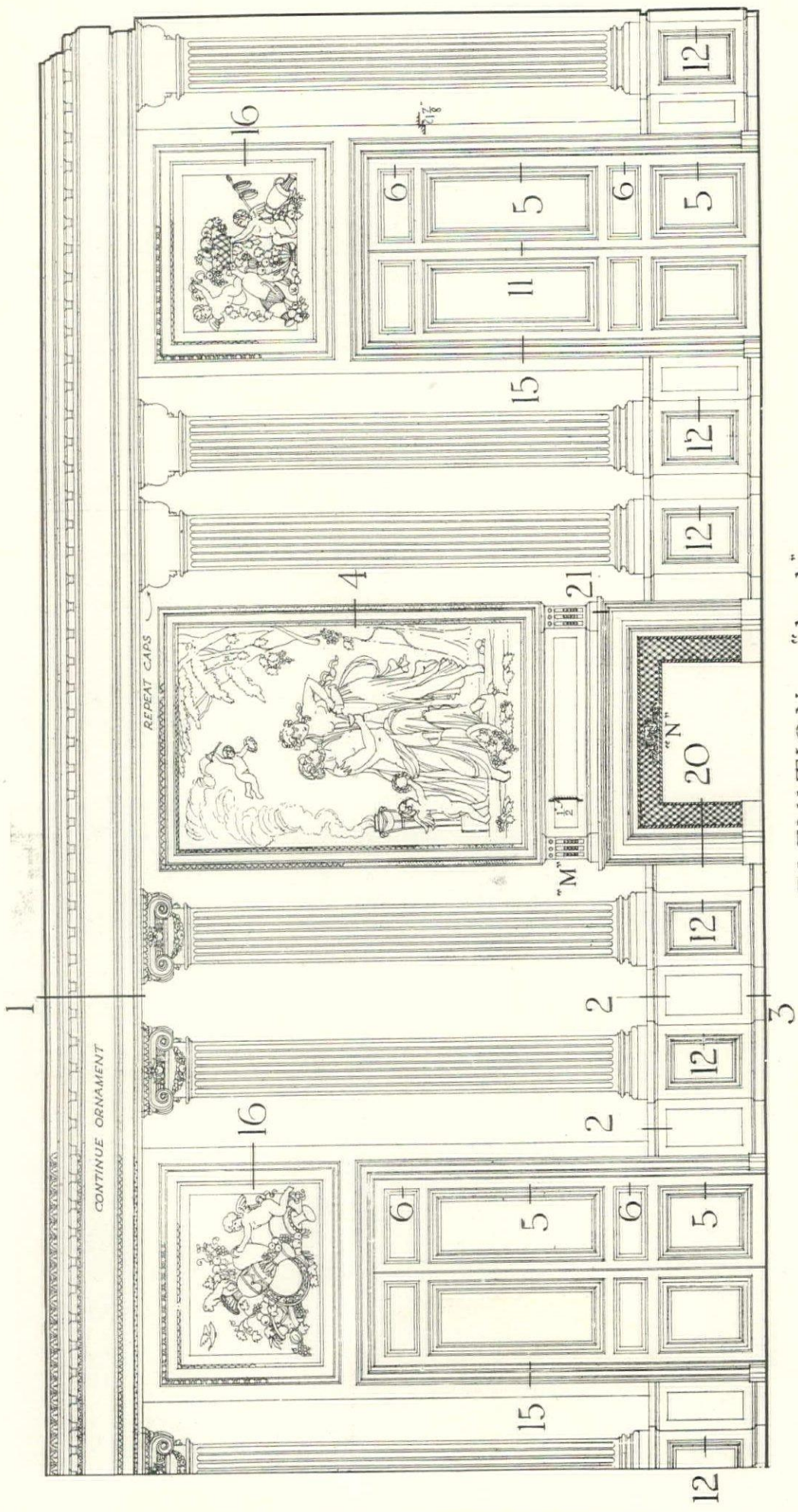
OF all the rooms in the Louis XVI wing at Compiegne, the dining room is by far the most notable. Opening directly into the suite occupied by Marie Antoinette herself, it far excels in dignity and majesty any of the rooms of the royal suite. One doesn't have to look far for the reason for this. In the first place, the proportions of the room are majestic. It is approximately 45 feet long by 33 feet wide and 19 feet, 8 inches high, proportions which make it adequate for those state functions for which it was designed. Then, too, whereas the other rooms are in some instances ornate and burdened with detail as well as with stuffs and furniture, the dining room is extremely simple and direct in treatment, in fact almost severe, and yet the effect is satisfying to an unusual degree.

The walls are kept decidedly plain, only a faint gray marbleizing being apparent; panels are held in abeyance except for the *grisailles* over the doors, the huge *grisaille* over the mantel, and the small panels in the wainscot below the pilasters. The pilasters are very vigorous, and the caps unusually beautiful

in detail. The spacing of the pilasters on either side of the mantel is unequal, but one scarcely notices it; this was made necessary by the position of the chimney-piece. The corners, cut off at an angle of 45 degrees at the far end of the room, add to the attractiveness of the plan. All the architraves are large in scale, and the mantel itself as well; but so large is the room, and the various members are so well proportioned that there is no perceptible heaviness of scale. The cornice, simple yet bold and vigorous and beautifully disposed as regards detail, is dignified and well designed and adapted to the splendid order of pilasters. The entire room is richly simple, reticent, and full of character.

The marked simplicity of the room, its great size and noble treatment all combine to make it one of the most commanding and impressive to be found. As an inspiration for rooms of a like character today it cannot be surpassed. It is an excellent example of what can be done in the case of a large room by exercising restraint in the matter of ornamentation and detail. This is always desirable in a dining room.

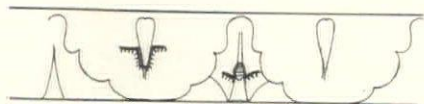




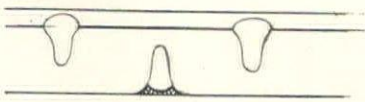
ELEVATION "A~A"

Scale $\frac{1}{4}$ Inch = One Foot

DINING ROOM
COMPIEGNE

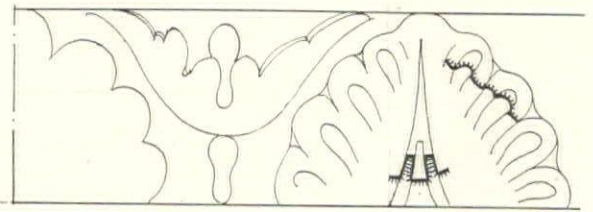


DETAIL "D"

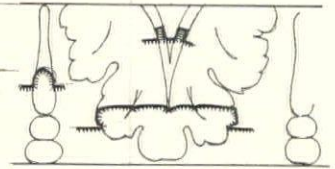


DETAIL "C"

DETAILS "A,B,C,D"
ARE AT ONE HALF
FULL SIZE



DETAIL "A"



DETAIL "B"
DEVELOPED

"B"

SEC 5

SEC 6

SEC 12

SEC 7

POCKET
FOR BLINDS

SEC 2

SEC 10

SEC 9

SEC. 1

ONE QUARTER
FULL-SIZE

SEC 8

SEC 11

SEC 13

LINE OF
WALL

13A

SEC 14

PANELS IN
SOFFIT &
JAMBS OF
WINDOW

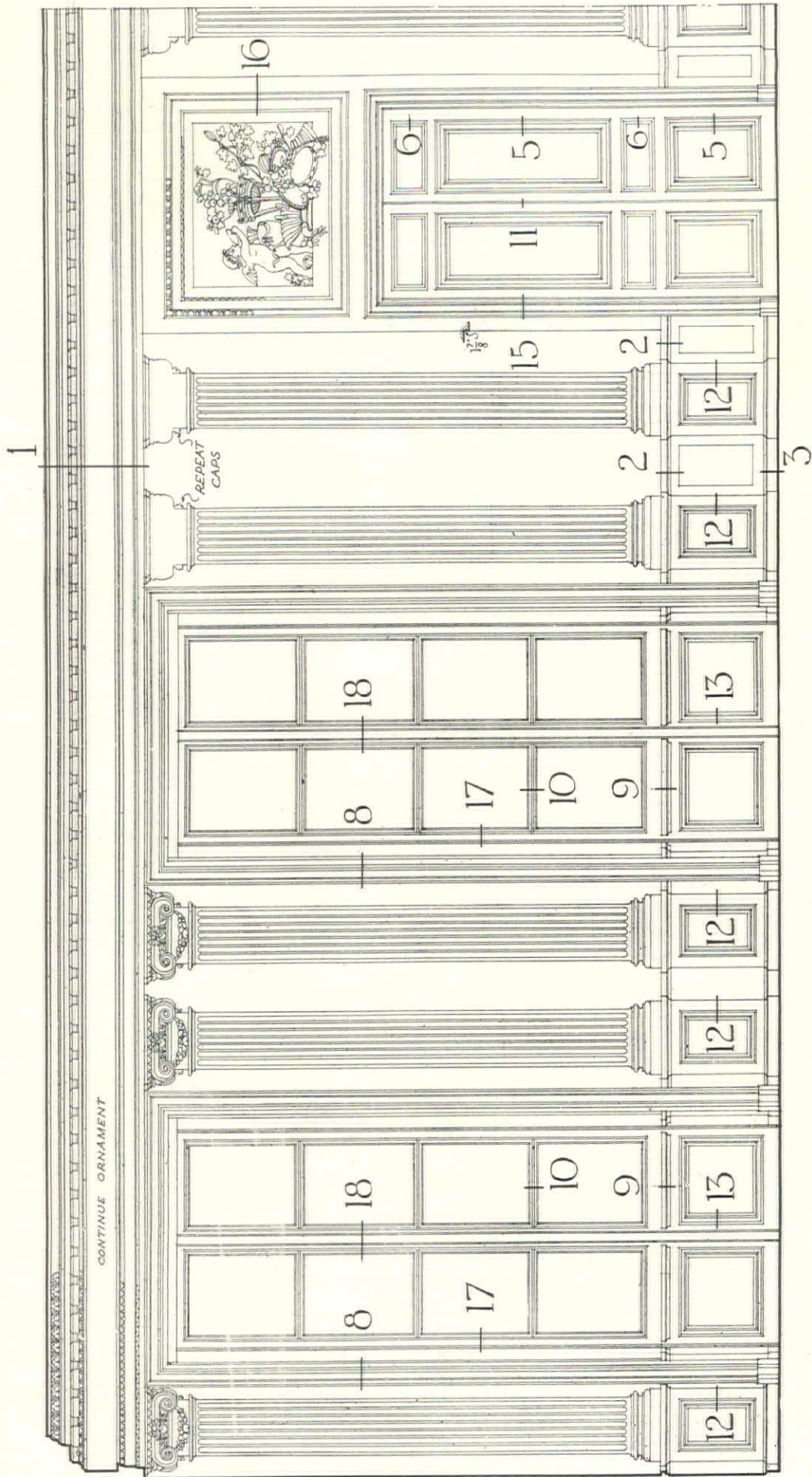
SEC 4

SEC 3

1/2 FULL SIZE DETAILS

DINING ROOM
COMPIEGNE

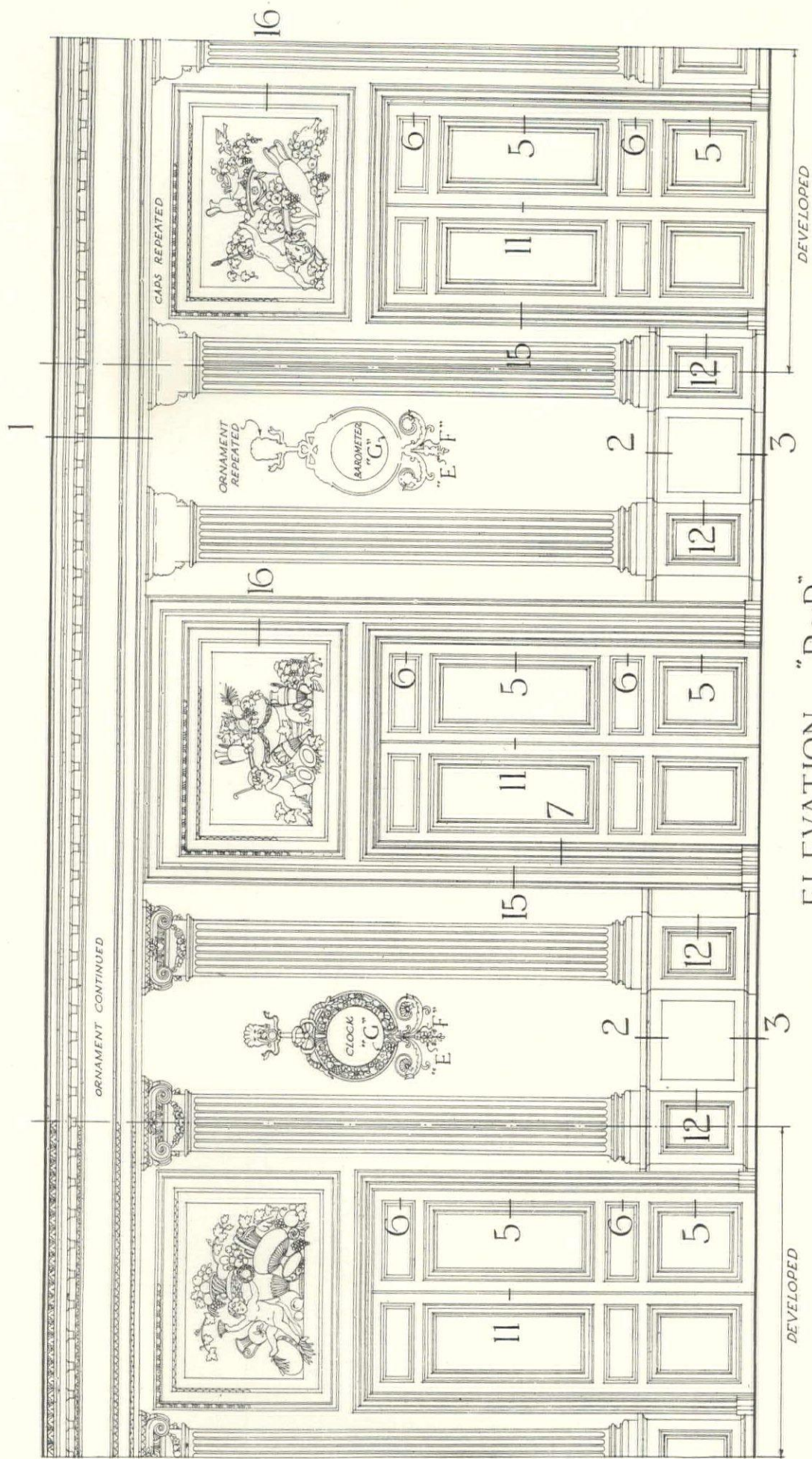
FLOOR
LINE



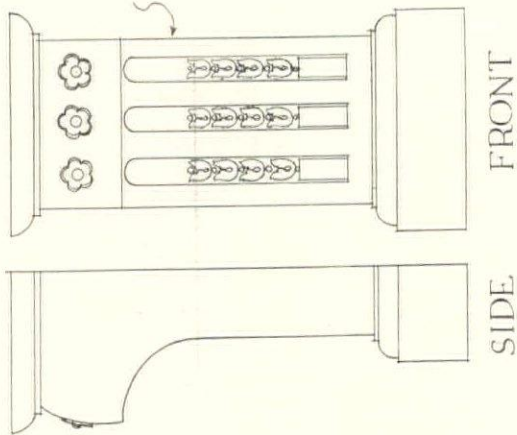
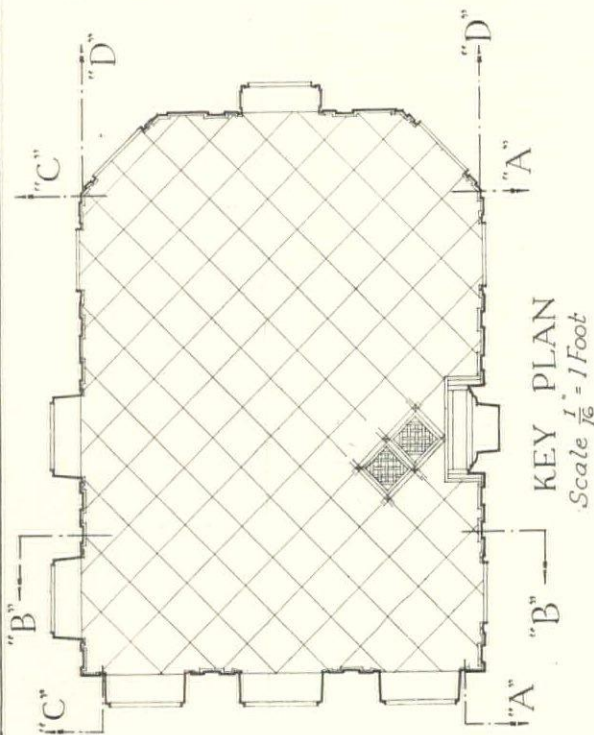
ELEVATION "C~C"

Scale $\frac{1}{4}$ Inch = 1 Foot

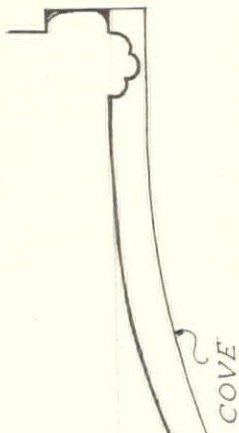
DINING ROOM
COMPIEGNE



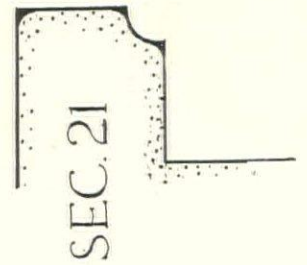
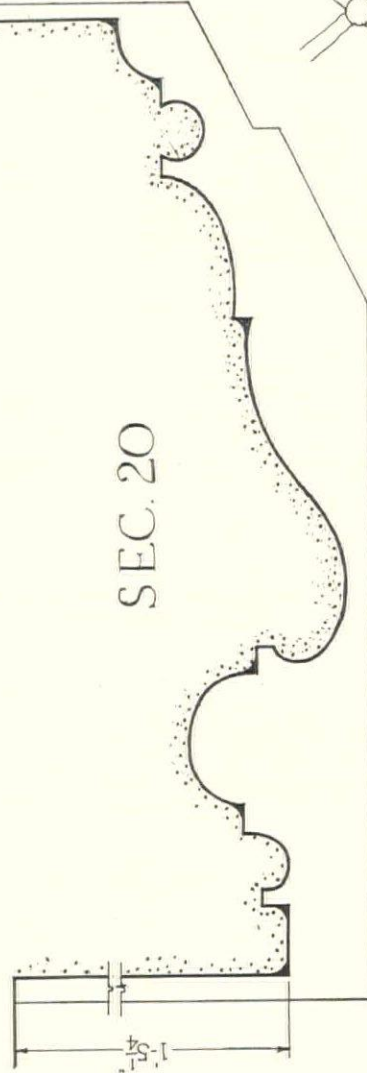
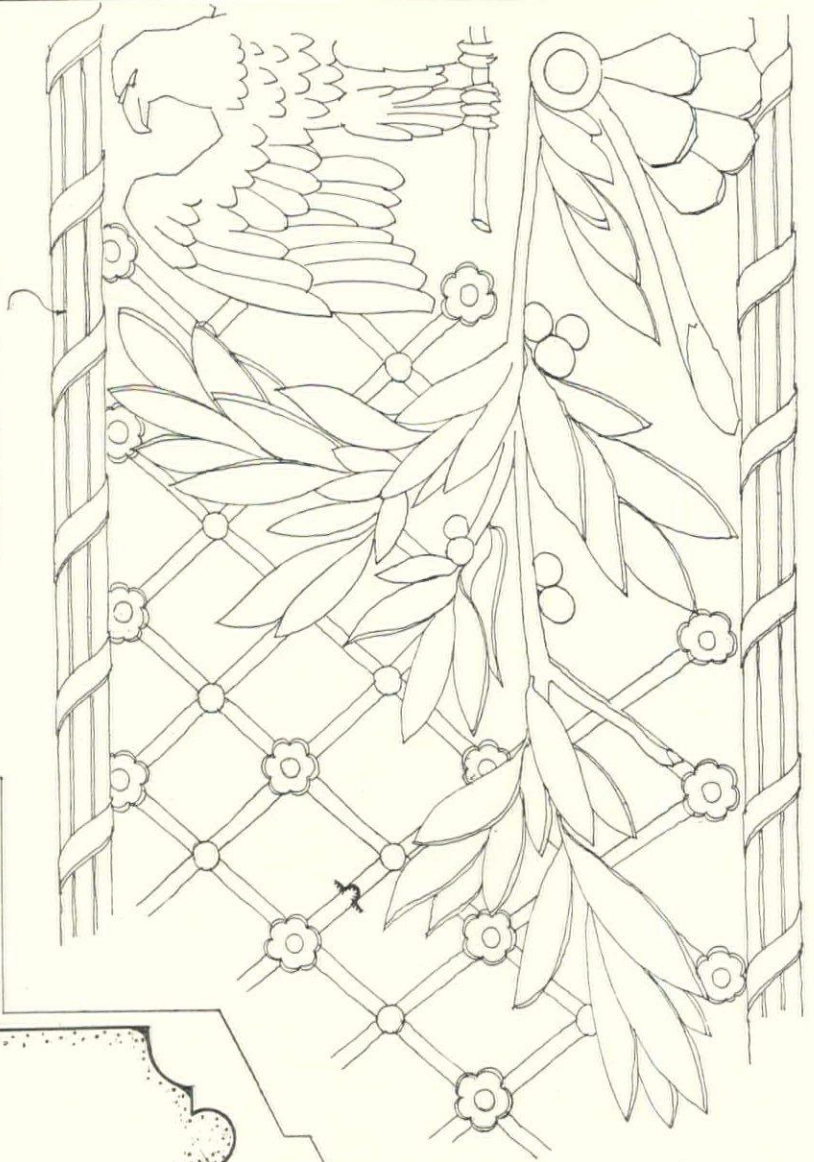
ELEVATION "D~D"
 Scale $\frac{1}{4}$ Inch = 1 Foot
 DINING ROOM
 COMPIEGNE



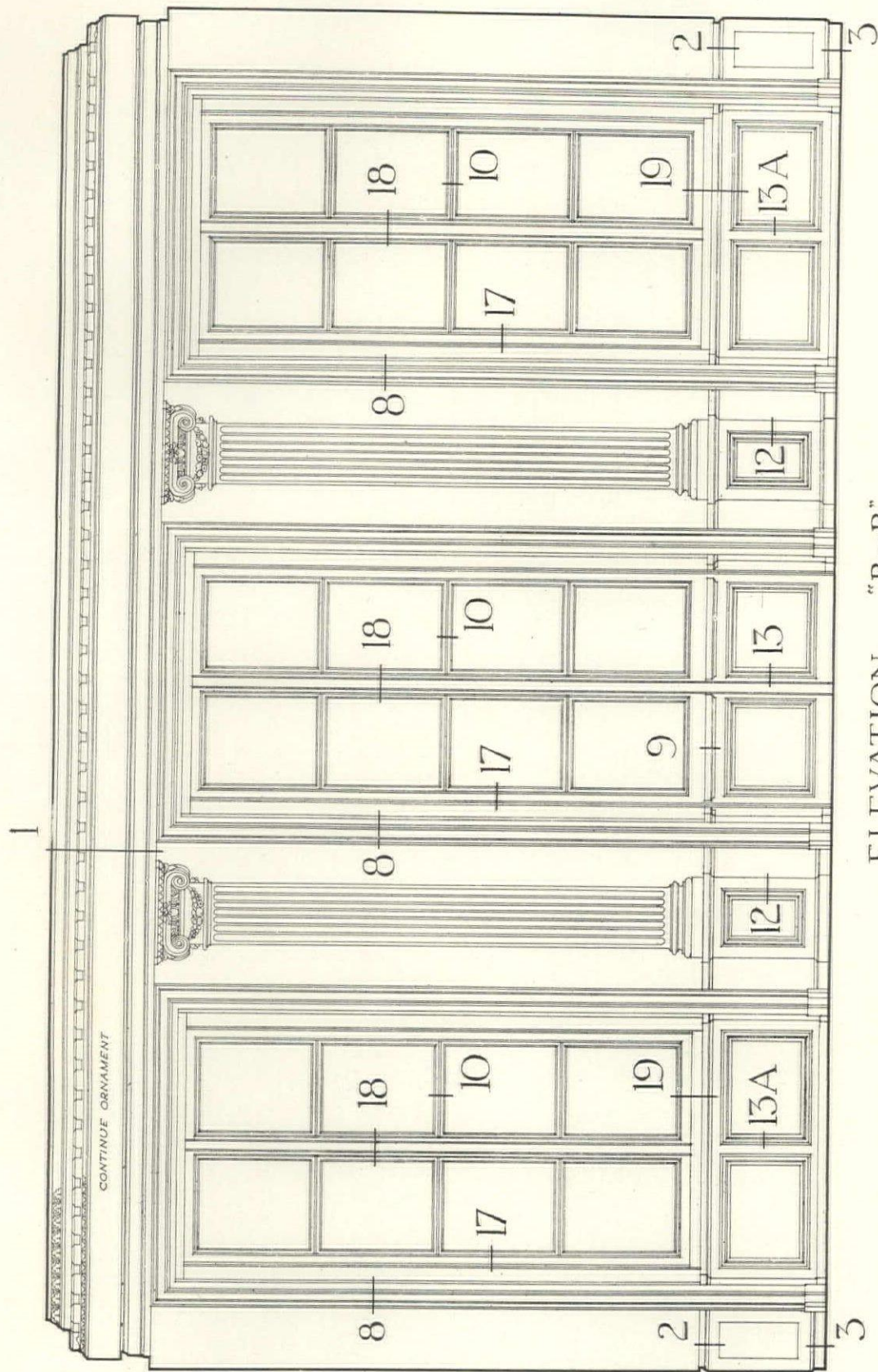
DETAIL AT "M"
Scale $1\frac{1}{2}'' = 1 \text{ Ft.}$



DETAIL AT "N"



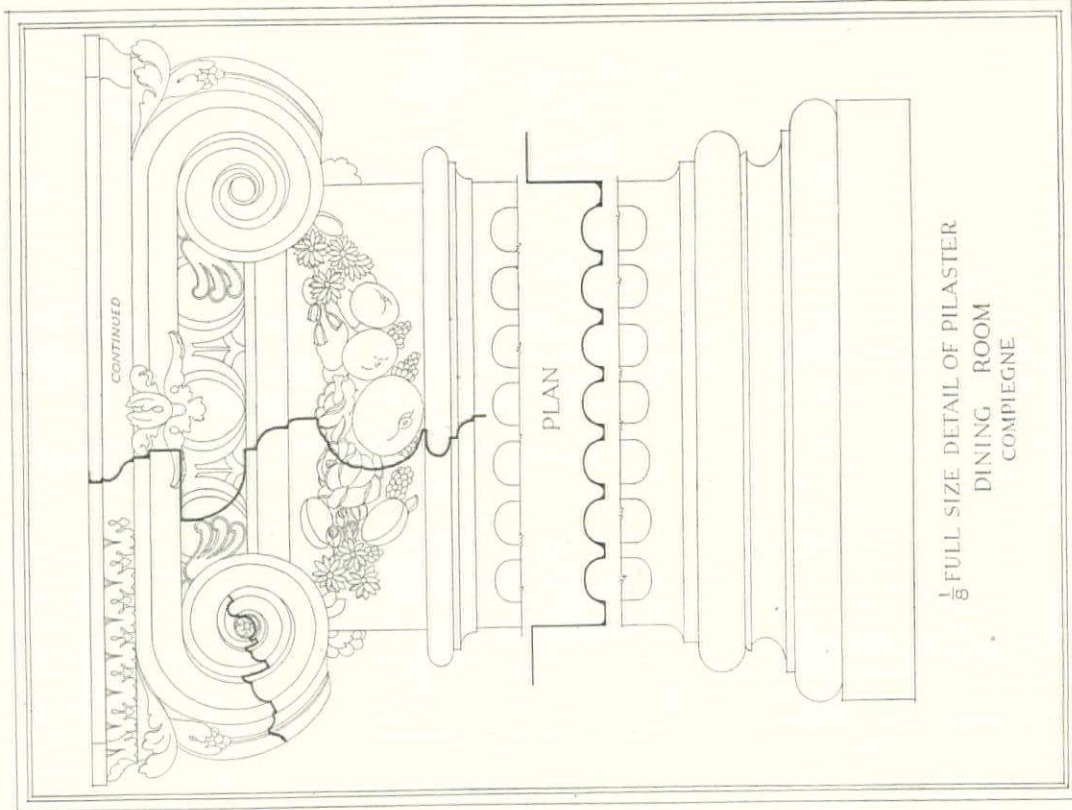
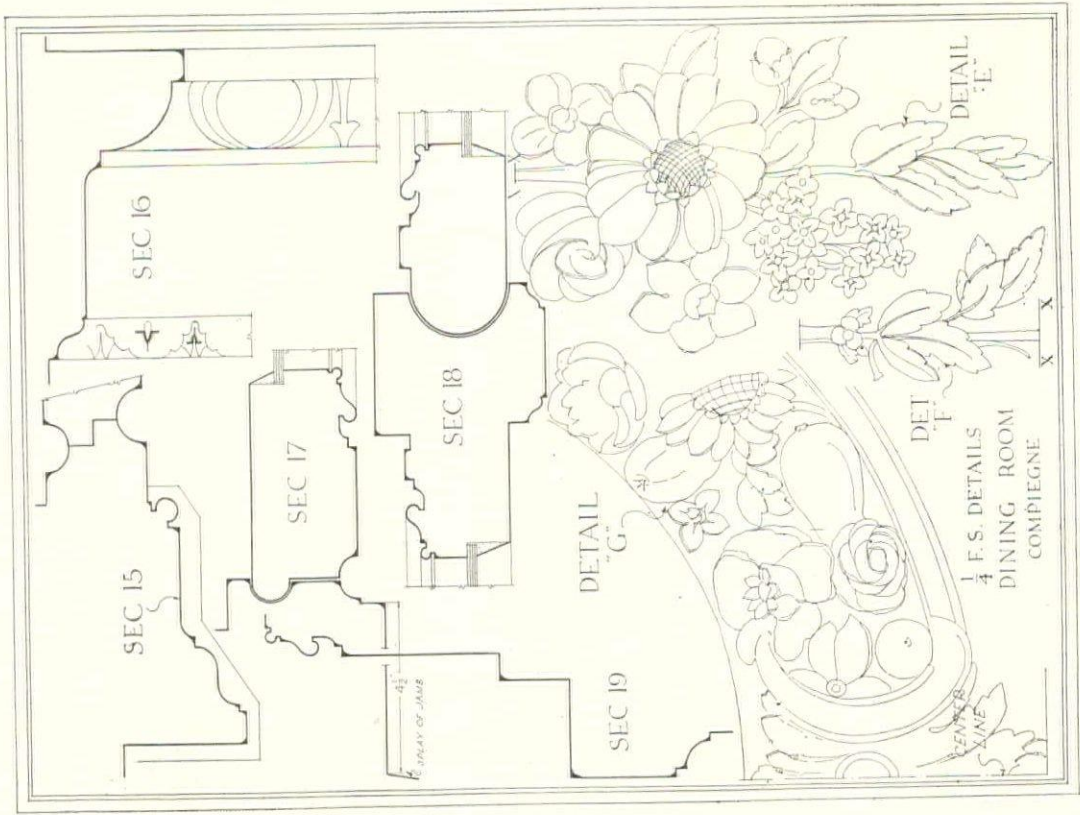
$\frac{1}{2}$ FULL SIZE DETAILS
DINING ROOM
COMPIEGNE



ELEVATION "B~B"

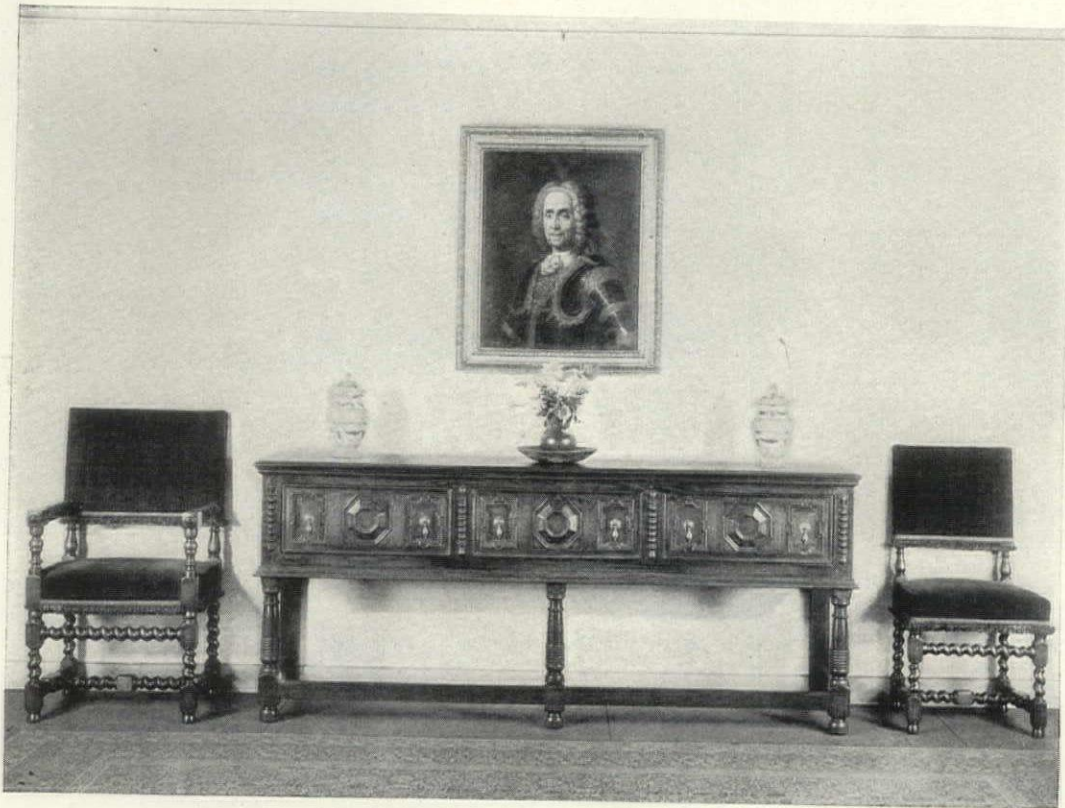
Scale $\frac{1}{4}$ Inch = 1 Foot

DINING ROOM
COMPIEGNE



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NO other piece of furniture seems so to typify the hospitality of Old England as the oak dresser. Long and low, it provided an ample and convenient service board for the refreshment of the squire's guests. Around it were enacted the homely and familiar, as well as the convivial, scenes of healthy English country life.

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that is so essential to the successful country home.

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Residence of M. E. Greenebaum, Jr., Glencoe, Ill. Walnut room designed and executed by Homer Studios, Chicago

Notice the light tone of this Walnut Paneling

THIS walnut room in a country home shows how walnut paneling may be kept light in tone when desired. The wood in this case was finished in its natural color.

Here is further proof of walnut's amazing versatility. For many uses, walnut in darker finish may be preferred. Yet where this effect is not desired, walnut may be kept light as this illustration shows.

Whatever finish is used, walnut will always appeal because of its unfading beauty and endless variety of pattern. No other wood is so practicable for use in woodwork and furniture for the home and public building. It requires practically no care; finger-marks do not show

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on paneling.
See below.*

on it and it is amazingly resisting to the marks of everyday wear. Age only increases its beauty.

For paneling and woodwork, as well as for furniture, walnut is gaining new admirers every day. It is the most adaptable of woods and none responds so satisfactorily to artistic treatment, and to good workmanship.

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ROOSEVELT SCHOOL, DETROIT
Architects: MALCOLMSON & HIGGINBOTHAM



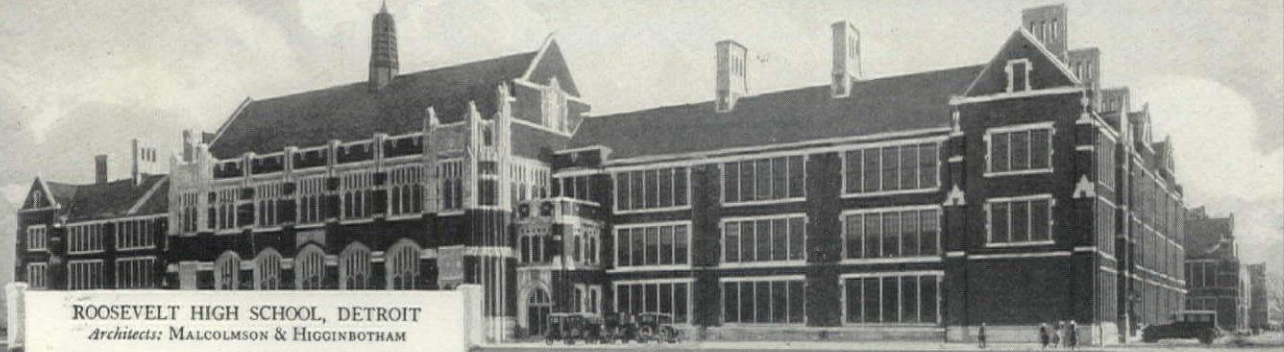
JOHN BURROUGHS SCHOOL, DETROIT
Architects: MALCOLMSON & HIGGINBOTHAM



GEORGE WASHINGTON SCHOOL, DETROIT
Architects: VERNER WILHELM & MOLBY



MARSHAL FOCH SCHOOL, DETROIT
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ROOSEVELT HIGH SCHOOL, DETROIT
Architects: MALCOLMSON & HIGGINBOTHAM

Again and again in Detroit schools

One building might not be sufficient proof. But when so many Detroit schools erected in recent years (space permits us to show but five) have the same floors—that's conclusive evidence for you.

Evidently, then, BONDED FLOORS of Gold Seal Battleship Linoleum are giving full satisfaction in Detroit's school buildings. The restful quiet and underfoot comfort of this resilient material is exactly what Detroit wants in class rooms and corridors.

And the fact that they were ordered again and again clearly demonstrates that the durability* of these BONDED FLOORS comes completely up to requirements.

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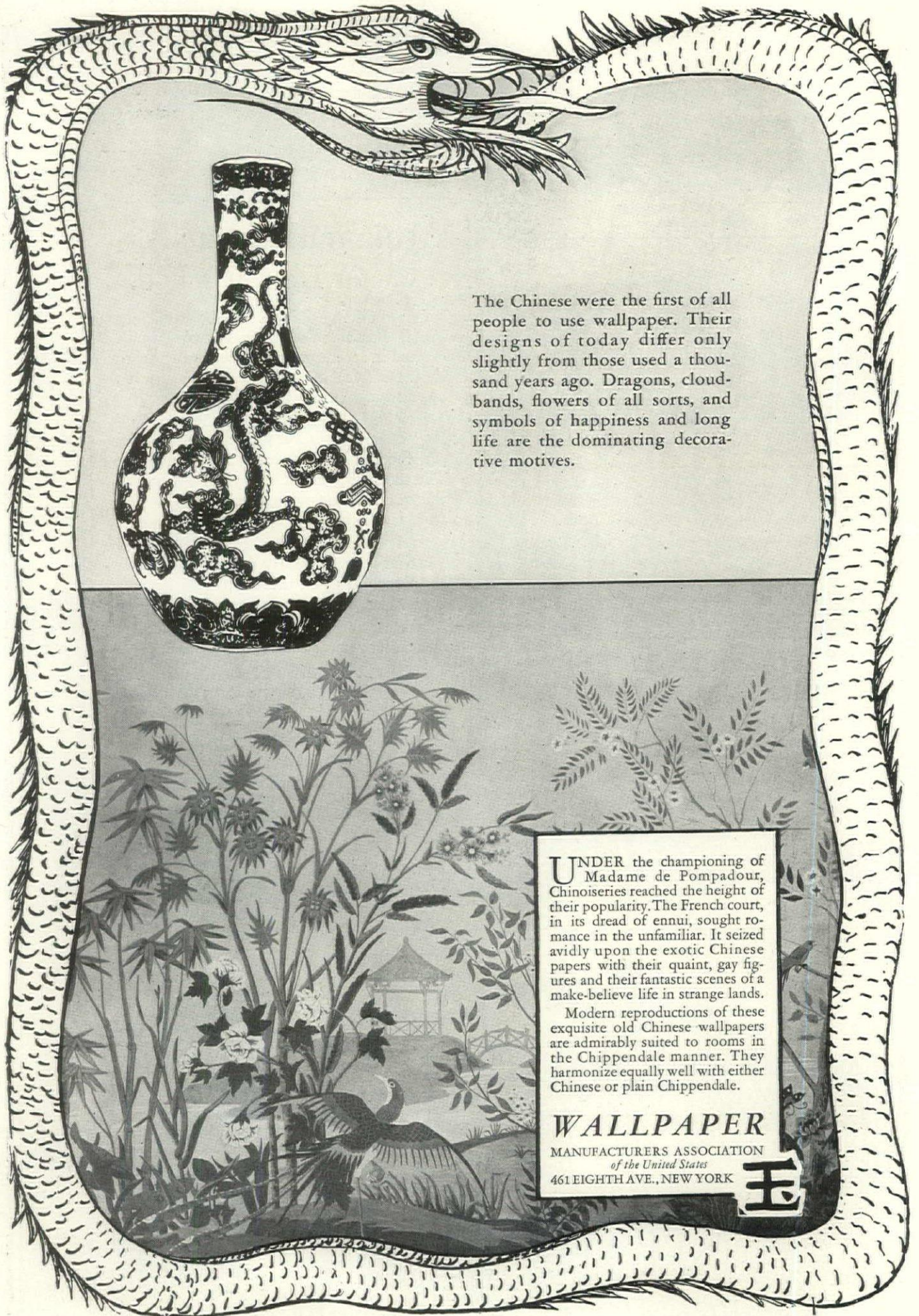
*A Guaranty Bond against repair expense (issued by U. S. Fidelity & Guaranty Co.) is obtainable with every floor installed according to Bonded Floors specifications.

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The Chinese were the first of all people to use wallpaper. Their designs of today differ only slightly from those used a thousand years ago. Dragons, cloud-bands, flowers of all sorts, and symbols of happiness and long life are the dominating decorative motives.

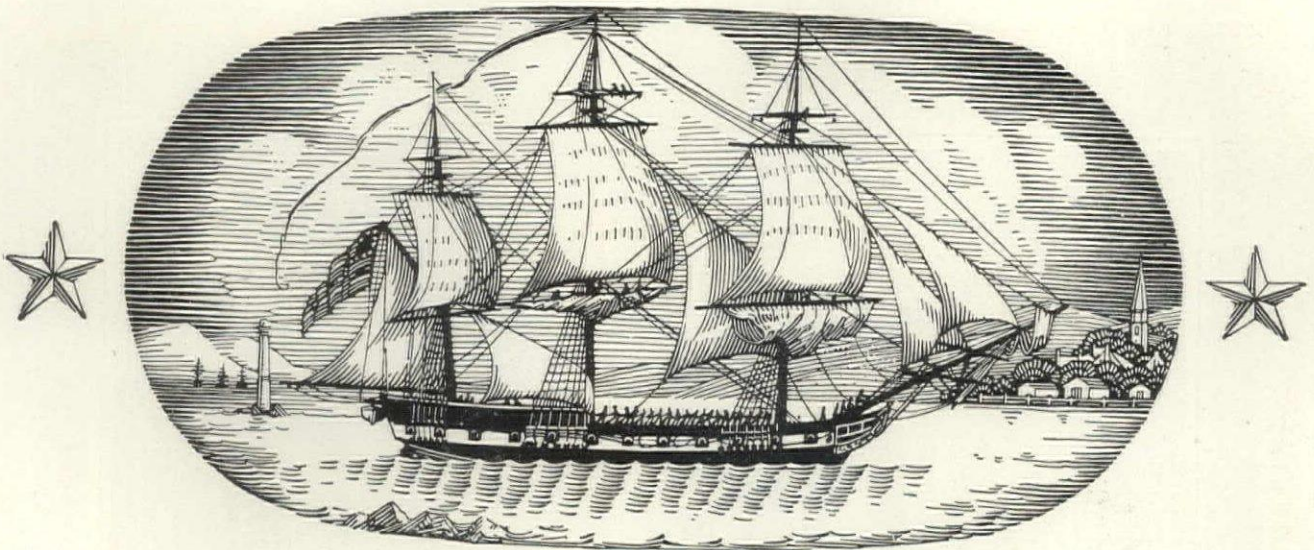
UNDER the championing of Madame de Pompadour, Chinoiseries reached the height of their popularity. The French court, in its dread of ennui, sought romance in the unfamiliar. It seized avidly upon the exotic Chinese papers with their quaint, gay figures and their fantastic scenes of a make-believe life in strange lands.

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This chintz has the quiet charm of things old

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FROM so seemingly prosaic a source as the wallpaper in the parlour of this old Marblehead farmhouse came the design for the quaint glazed chintz shown here.

All its old-fashioned charm has been preserved, not only in the pattern but also in the colorings in

The Easy Chair, so favored by our forefathers, gains added interest when upholstered with this old-fashioned chintz

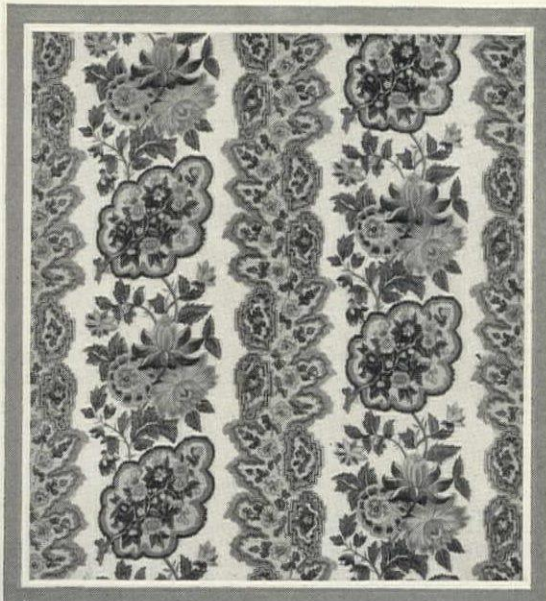


which it may be had—dull green or blue or buff or mauve or salmon.

With the interesting and charming interiors planned today along the lines of 17th and 18th Century America, this chintz is delightful.

It may be used on an old wing chair, as suggested in the illustration. Or for draperies, for window shades, for slip covers.

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Reminiscent of old ship models, quaintly prim horsehair furniture and bits of ornament brought from far-away ports, this chintz is most delightful

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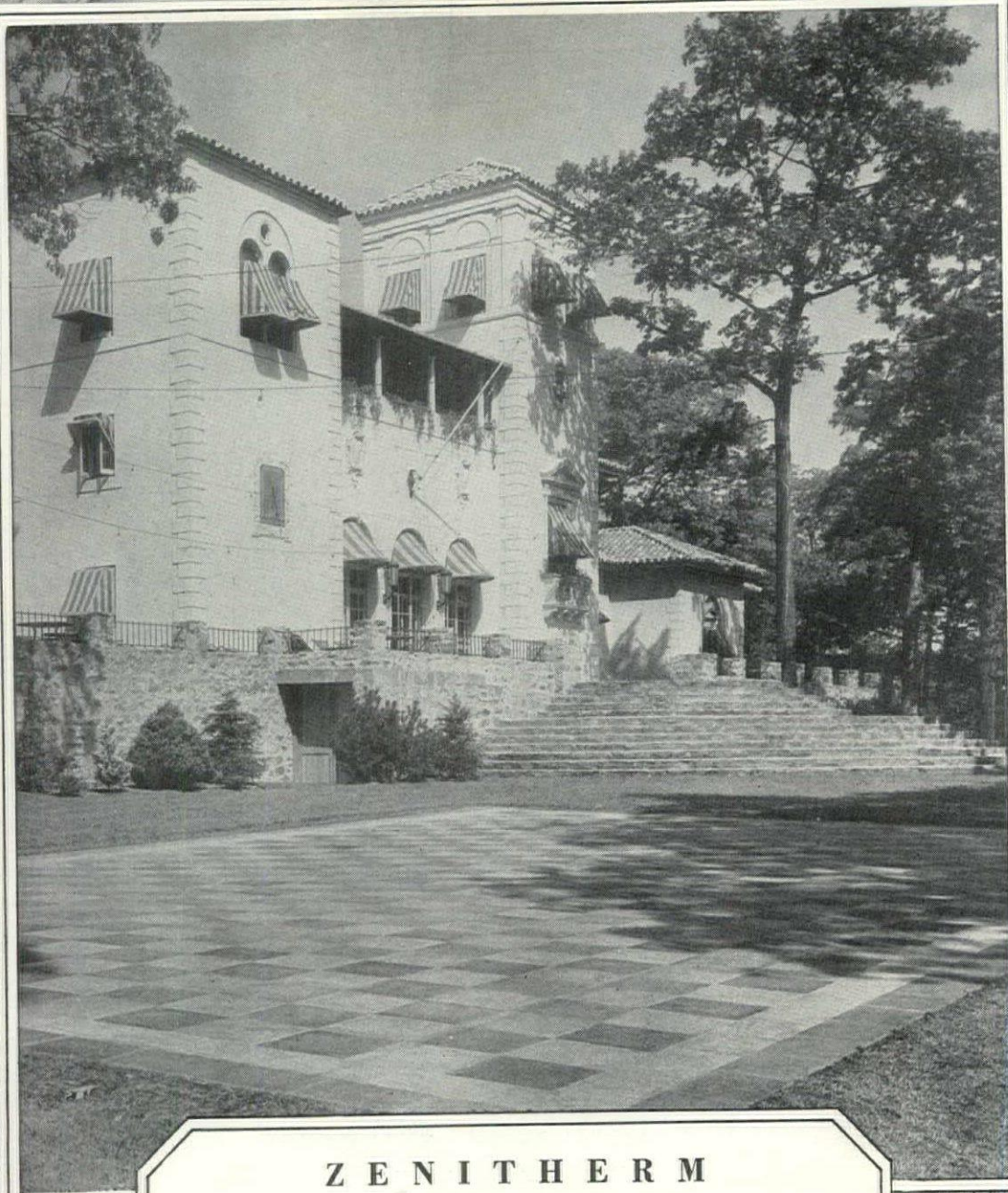
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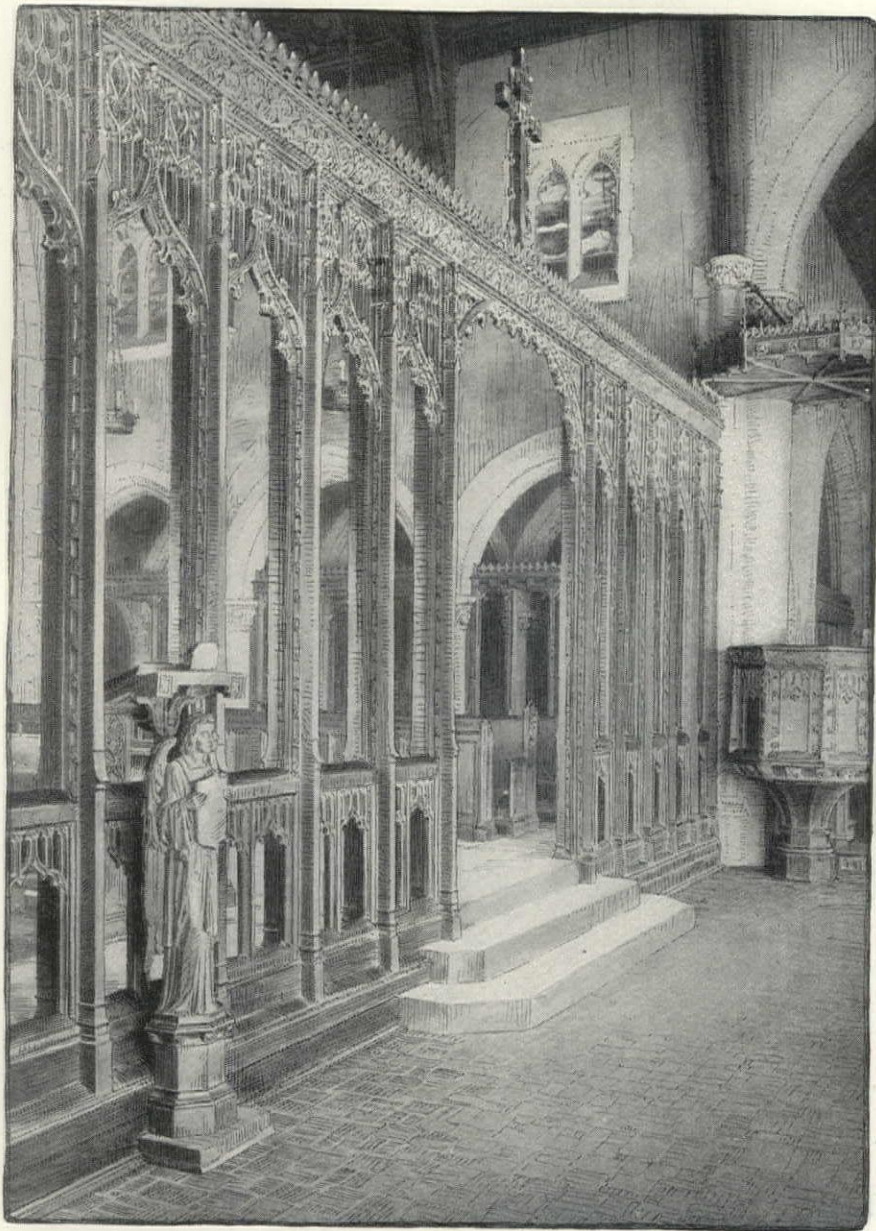
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LOOKS LIKE STONE - WORKS LIKE WOOD

ZENITHERM



*Sketch of Chancel,
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Johnson,
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Coate, Architects*

*Rood Screen,
Pulpit, Lectern
and seating by
American
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American Seating Company

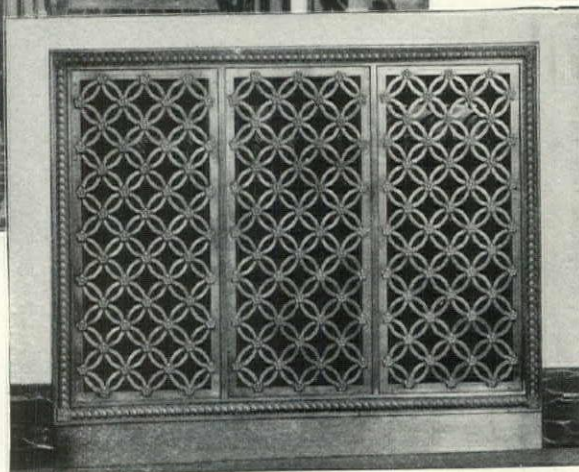
NEW YORK
620—119 W. 40th St.

General Offices
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79 Canal Street



*Saint Aloysius Church
Cleveland, Ohio
William C. Jansen, Architect*



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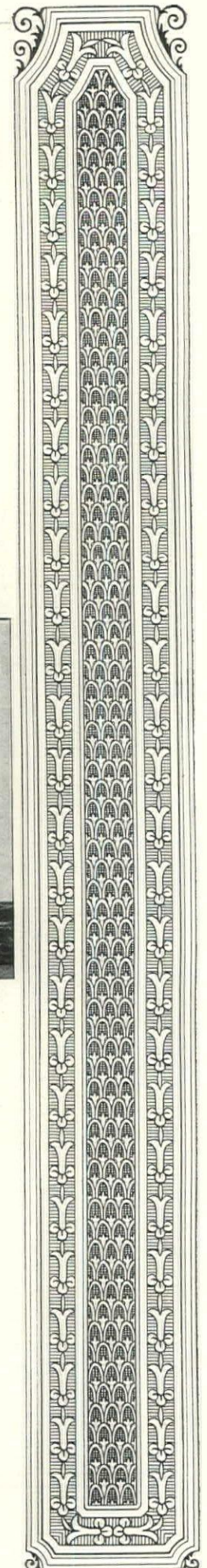
Many of America's foremost buildings contain Ferrocrafft Grilles. Correspondence is solicited from interested architects regarding either our special designs or their own detail.

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Just as Murphy In-a-Dor Beds

changed the economics of residential hotels and apartments they are now affecting dwelling house conditions.

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Murphy In-a-Dor Bed turns sun porches into delightful open air sleeping quarters. They enable one room to be play place for the children by day and sleeping room by night.

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Excellence of construction makes the beds last as long as a building lasts—and the beds need no re-adjustment after being installed. Beauty marks the beds. The Graceline tubing is smooth, seamless, perfectly finished. Springs are the famous "Slumber King"—built for sleep.

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| Atlanta, Ga. 33 Luckie St. | Cleveland, O. 1140-42 Hanna Bldg. |
| Seattle, Wash. Terminal Sales Bldg. | Kansas City, Mo. 1114 Grand Ave. |
| San Francisco, Calif. Crocker Bldg. | Dallas, Tex. 1919 Pacific Ave. |
| Los Angeles, Calif. 1807 S. Main St. | El Paso, Tex. Neff-Stiles Bldg. |
| Denver, Colo. 1534 Blake St. | Houston, Tex. 2301 Main, St. |
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| Tampa, Fla. 220 Warner Bldg. | Montreal 698 St. Catherine St., West |
| St. Louis, Mo. 315 N-10th St. | |



THIS is a detail of an Antique Window, Middle Century treatment, by the Payne Studios. The grouping of the figures, traditional treatment of line, and the faithful adherence to color and pattern of light and dark, repeat in a striking way the charm of the old windows of this period.

Our designers will either prepare sketches for your approval before making the cartoons, or will develop your own designs under your direction. We cooperate intelligently with architects to their entire satisfaction.

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BEARDSLEE

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REMEMBER
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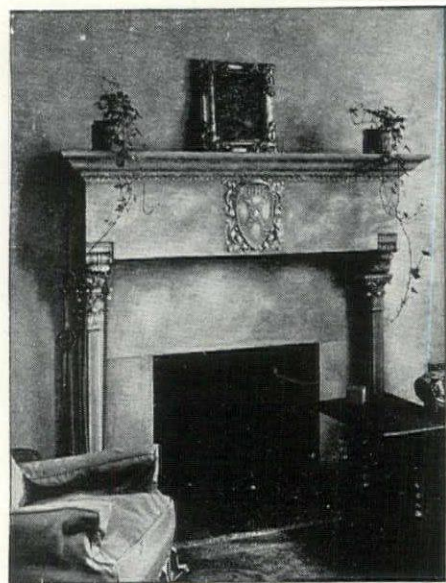


*Design
No. K24-110*



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CHICAGO



Mantel from "Davanzati Palace"

**Jacobson Mantel & Ornament
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Durable beauty . . .

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"We buy this paint," say the agents for the building, "because it keeps its gloss despite frequent cleaning. After repeated washing the finish appears as fresh as that of newly painted walls.

"Everything considered we find that Barreled Sunlight gives us all the results that we might expect from higher priced enamels."

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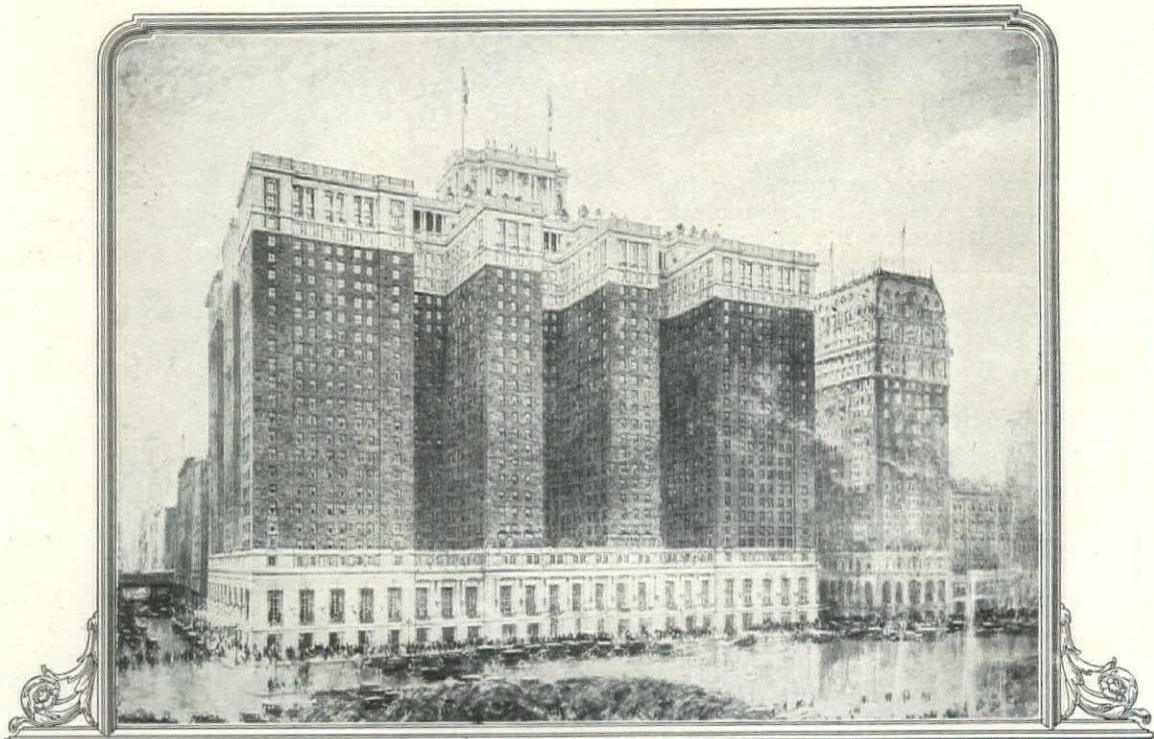
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*Permanency of beauty on the woodwork in
the new Stevens Hotel is assured with*

“38”

**PRESERVATIVE
VARNISH**



Holabird & Roche, Archts. W. P. Nelson Co., Ptg. Contrs. Matthews Bros Mfg. Co., Cabi. Contrs. Geo. A. Fuller Co., Gen. Contrs. Copyright 1926, P & L

THE new Stevens Hotel in Chicago will be the largest hotel in the world — three thousand rooms, the woodwork of which is finished with “38” Preservative Varnish. The use of “38” Preservative Varnish on the interior woodwork is in keeping with the general high character of this new hotel, a monument to the architects and contractors. Made for the very highest type of interior woodwork, “38” Preservative Varnish is naturally selected for buildings of outstanding merit. Its full-

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“38” Preservative Varnish is but one of many Pratt & Lambert Varnish Products which have established a reputation for quality and service. Architects in the United States and Canada have long recognized their dependability and specify their use on all classes of buildings.

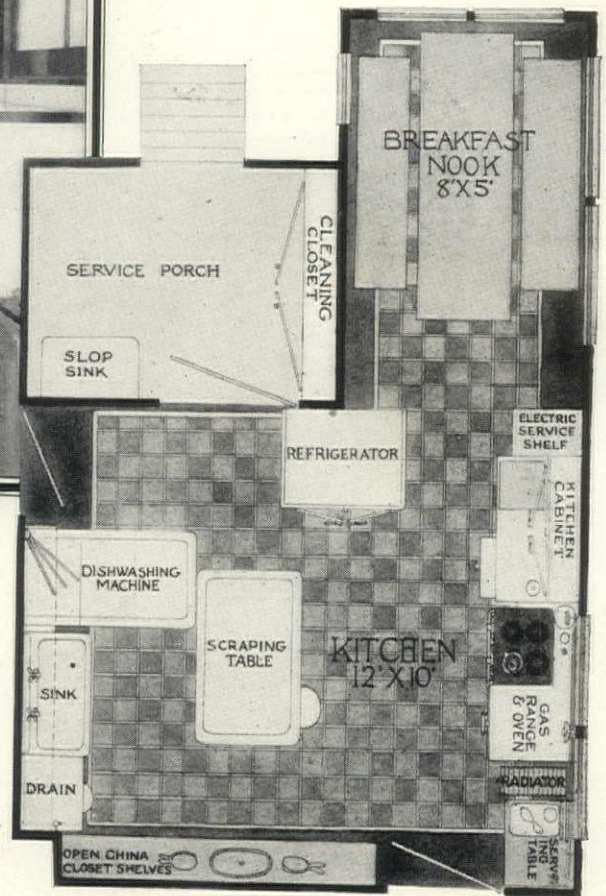
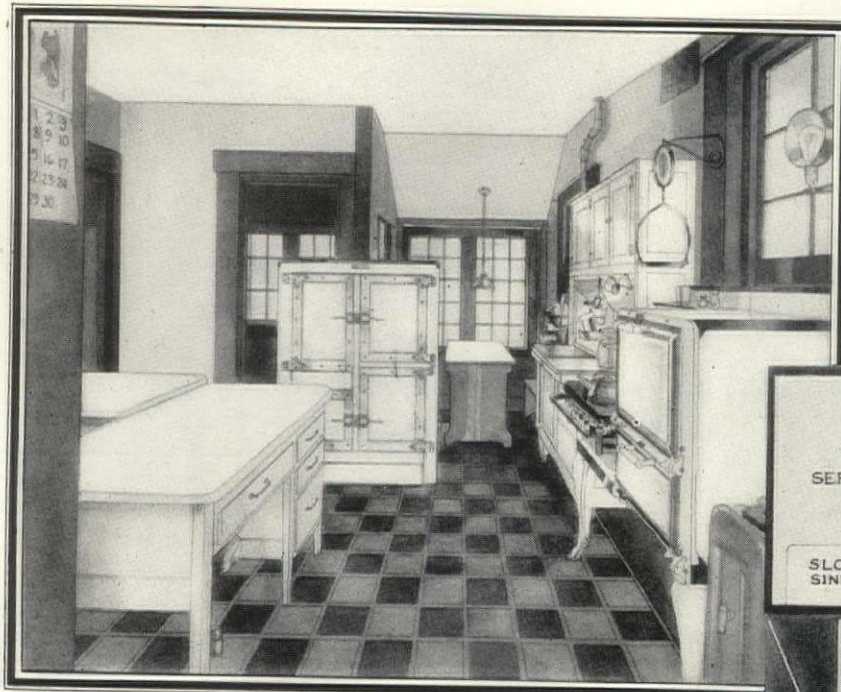
Consult the Pratt & Lambert Architectural Service Department — its members will be glad to help you solve your finishing problems.

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How an Up-to-date "Kitchen Architect" Planned her Kitchen

ARCHITECTS will be interested in the plan of the "model kitchen" shown above. Designed by a nationally known household efficiency expert, the kitchen has been divided into two units—one for the preparation of food, and one for the clearing process. Observe how each unit has been arranged with an eye for convenience and the saving of steps.

Obviously, this design is not applicable to every case. Yet the principle of arranging the various parts so that food moves in a continuous line is sound, and may be used successfully in any kitchen.

In planning any kitchen consideration should also be given to color, cheerfulness and cleanli-

ness. These can always be secured by the use of proper finishing materials—materials that are not only waterproof and long-wearing, but colorful.

Finishes such as Valspar and Valspar in Colors meet the most exacting requirements of modern kitchen use. For Valsparred surfaces not only withstand the effects of destructive agents such as soap, hot water, grease, acids, alkalis, etc., but they are as lustrous and beautiful as they are easy to clean.

Your clients will appreciate a kitchen which embodies the features described. For they mark the difference between a job that's just ordinary and one which is 100% satisfactory.

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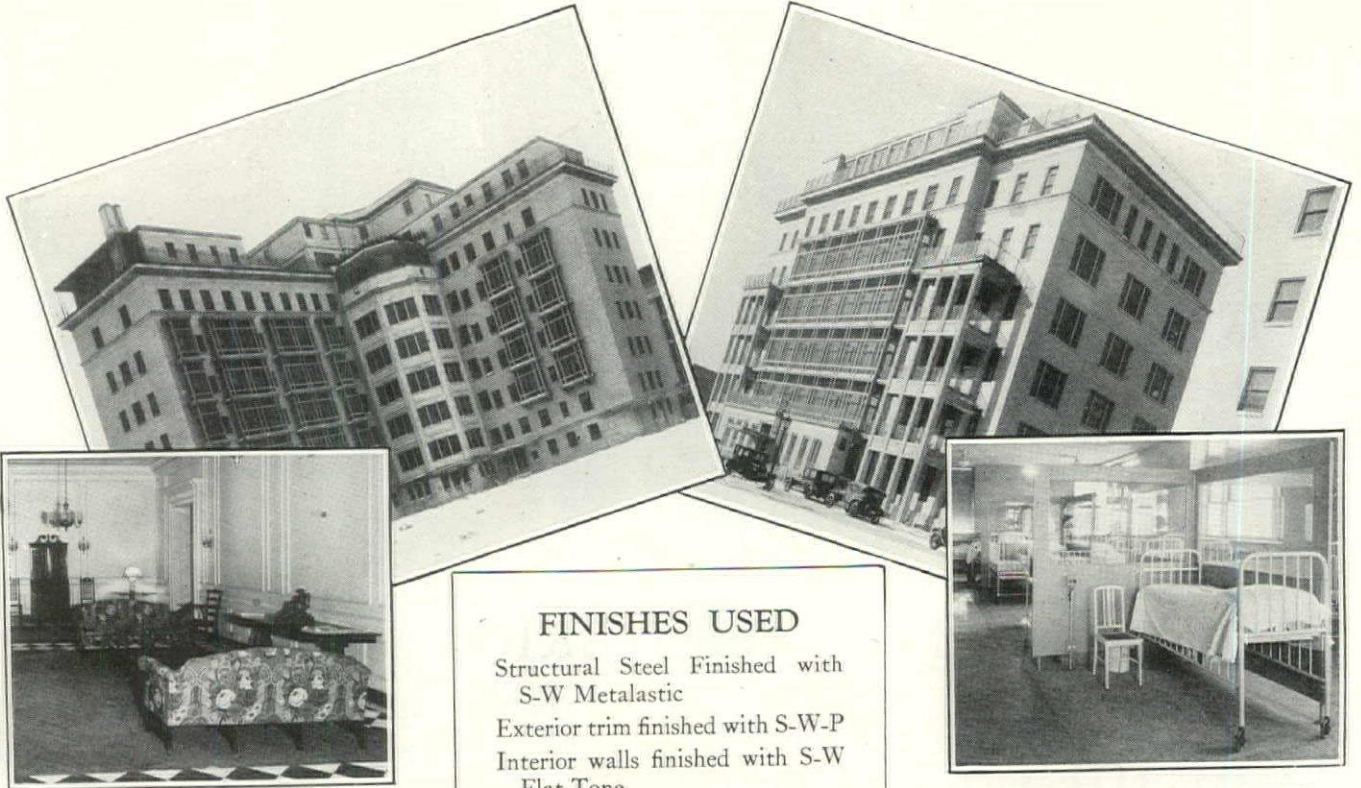
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Two new Cleveland Hospitals finished entirely with SHERWIN-WILLIAMS products

THESE two new Cleveland Hospitals are finished with Sherwin-Williams products throughout. The specific product used in each case is shown in the panel above.

Sherwin-Williams finishes are especially recommended to the Architect because he can specify them and be assured that he is getting the very highest quality paints, varnishes, enamels and lacquers.

For your convenience we have prepared the Architects' Painting Guide. It gives concise recommendations for the best and most durable finish to use on each type of surface. Many architects are finding it a practical help in specifying paints. We recommend it to you. A copy will be sent on request.

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 FOR FINISHING INTERIOR SURFACES**



THE perfection of OBS Lacquers and Lacquer Enamels by The Zapon Company is the most important step made in the development of architectural finishing materials within the past century.

OBS Lacquers and Lacquer Enamels are true pyroxylin base finishing materials. The base is a combination of nitrocellulose together with various purified gums dissolved in a solvent mixture. They dry quickly due to the evaporation of the solvent, differing in this respect from oil base materials which dry slowly by oxidation. Because of this characteristic, the film produced by OBS Lacquers and Lacquer Enamels is thoroughly stable, whereas that produced by oil base

materials continues to absorb oxygen and becomes brittle, causing it to check and break down. The adoption of pyroxylin base finishing materials by the automotive, furniture and many other industries, demonstrates their superiority.

OBS Lacquers and Lacquer Enamels are especially adapted for architectural finishing for the reason that they are manufactured with the aid of a new solvent which permits their application by either brushing or spraying. They are free from the objectionable odor commonly associated with pyroxylin lacquers and so may be applied by the professional finisher without causing him discomfort.

A booklet containing a complete description of OBS Lacquers and Lacquer Enamels, together with specifications formulated from practical application on various types of surfaces will be sent, free of charge, to any architect, builder or decorator upon request.

THE ZAPON COMPANY

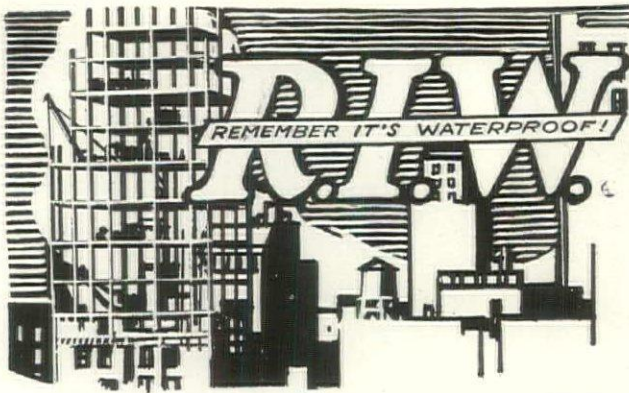
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Consult Sweet's Catalogue for Specifications

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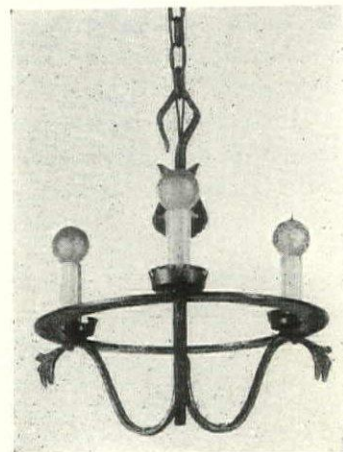
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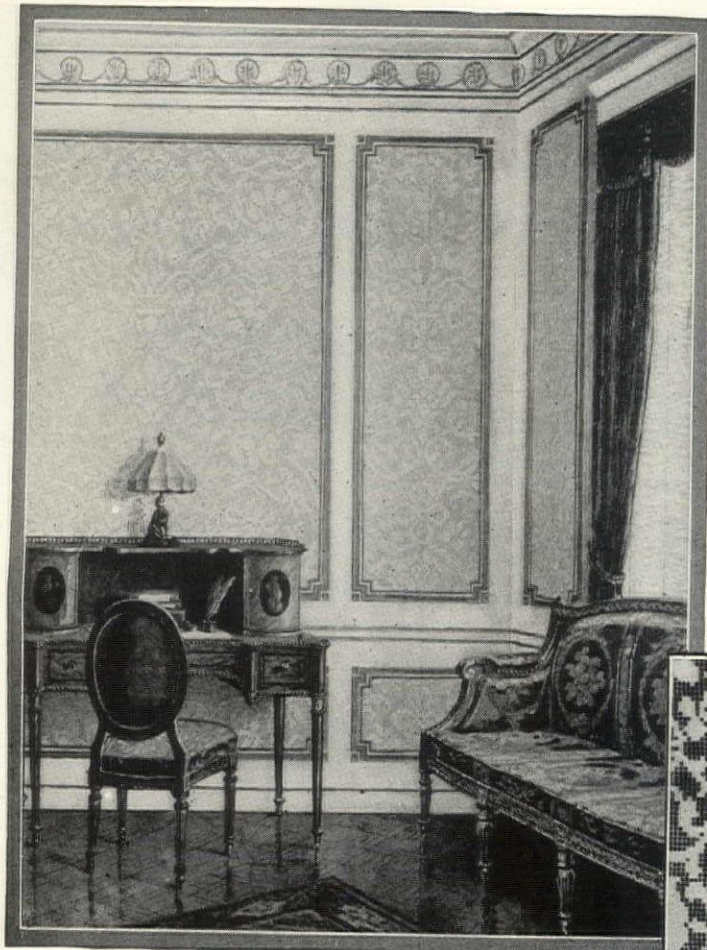
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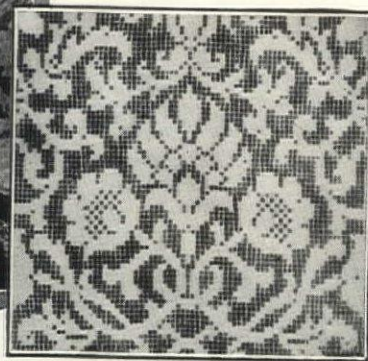
Interior reproduced from full-color picture appearing in "Decorative Possibilities of Paint," a valuable new booklet that will be sent upon request.

INTERESTING INTERIORS

By M. REA PAUL, *Consulting Colorist*

Second of a series of articles discussing practical uses of the newer wall finishes obtainable with Dutch Boy white-lead and Dutch Boy flattening oil.

An effective use of the Lace-Stencil Finish in the writing-room of a hotel. The pattern is rendered in such minute detail that even under the closest scrutiny it holds the observer's interest.



Close-up showing the intricacy of pattern obtained by using the Lace-Stencil Finish in the room illustrated.

The LACE-STENCIL FINISH

THE effect shown in this hotel writing-room is not difficult to obtain. A lace curtain of large mesh is made non-absorbent by a thin coat of shellac. Then the lace is used as a stencil, through which a finishing coat is tamped with a stencil brush, over a ground coat that has been allowed to dry. The result is a clean-cut pattern of intricate design. It is known as the Lace-Stencil Finish.

The Lace-Stencil Finish should, as a rule, be used in panels. The most satisfactory results will be obtained if the lace selected is as large in area as the panel in which it is to be used, since it is extremely difficult to join one large piece of lace to another. For this same reason, the Lace-Stencil Finish is not suited for use as an all-over pattern.

The Lace-Stencil Finish also makes a decidedly interesting border. The border may be applied just inside the panel mouldings, or used as a frieze on the upper side walls of a small interior.

Where to use it

The rooms in which the Lace-Stencil Finish, employed in panels, appears to best advantage are: living-room or boudoir of the home; private dining-room of the hotel; small parlor or writing room of the hotel; ladies' parlor at the club. It is also used to lend a distinctive atmosphere to

the decorative treatment of the theatre, the ballroom, and the interiors of the more elaborate residence.

Write for free booklet

"The Decorative Possibilities of Paint" is a valuable, new booklet containing full color illustrations and complete instructions on how to obtain many interesting wall finishes with Dutch Boy white-lead and Dutch Boy flattening oil. You may obtain your copy of this booklet by writing our nearest branch.

National Lead Company maintains a special Department of Decoration conducted by color specialists. These men will be glad to assist you, without charge, in planning decorative wall treatments for any type of building. They will help select the schemes of treatment, submit for your approval color suggestions and color renderings when necessary, and if you wish, assist in the writing of your specifications. Address the Department of Decoration in care of our nearest branch.



See the office and you save all—*Dutch Boy*

NATIONAL LEAD COMPANY

New York, 111 Broadway; Boston, 131 State Street; Buffalo, 116 Oak Street; Chicago, 900 West 18th Street; Cincinnati, 659 Freeman Avenue; Cleveland, 820 West Superior Avenue; St. Louis, 722 Chestnut Street; San Francisco, 485 California Street; Pittsburgh, National Lead & Oil Co., of Penna., 316 Fourth Avenue; Philadelphia, John T. Lewis & Bros. Co., 437 Chestnut Street.

Why 100% PURE VARNISH?



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FOSSIL GUMS when used in varnish have excellent linseed oil absorbing and amalgamating powers, and form a hard, tough, durable and elastic film.

Substitutes for fossil gums are rosin or ester gum (treated rosin).

LINSEED OIL dries, by the absorption of oxygen, to a most elastic and durable film.

CHINA WOOD OIL is the most water-resisting oil commonly used in Varnish manufacture.

When combined with linseed oil and fossil gums in the proper proportion it makes a Varnish film more waterproof.

TURPENTINE is the most satisfactory solvent and thinner for a long-oil fossil gum Varnish. It dries partly by absorbing oxygen from the air, and in the drying of Varnish the film of vegetable origin thus created, readily combines with the film of fossil gum and oil (both of vegetable origin).

Mineral spirits (naphtha, benzine, kerosene and gasoline), all distilled from petroleum, evaporate rapidly and completely and do not benefit the Varnish film.

Know what you buy

100% PURE

NO BENZINE — NO ROSIN

“Murphy Varnish Company is engaged in making varnish and other finishes growing out of varnish experience. The business was founded sixty years ago by Franklin Murphy, who became Governor of New Jersey. The men now interested in the company grew



up under his administration and were trained by him, and inherited, not only the knowledge of making varnish and the experience of applying it to various surfaces, but also the belief that no sale is profitable unless both parties are satisfied.”

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Murphy Pyroxylin Wood Preparation is a combination stain, filler and waterproofing material of the pyroxylin or nitro cellulose family for use as a first coat on wood. It is our own patented product—the only filler on a pyroxylin base. This material has demonstrated its remarkable qualities on all kinds of architectural work such as floor work. Many architects will consider it an ideal method. Its chief advantages are its permanence, beauty, economy, ease of application and its quick drying quality. It is brushed on like an ordinary paste filler and then after about twenty minutes rubbed off crossways of the grain with tow or burlap. The floor may be used immediately after Murphy Pyroxylin Wood Preparation is rubbed off.

The next day finishing coats of lacquer or wax may be applied and the job is done. This material comes in eight standard colors. Because it does not raise the grain of wood, its use eliminates sanding.

We shall be glad to have a representative demonstrate Murphy Pyroxylin Wood Preparation to you and to send you a color card showing the colors in which this material is available.

Won't you write us to have a demonstrator call?

Murphy

PYROXYLIN Wood Preparation

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It Artistically Solves Many Landscaping Problems

For the stucco type of residence, Dubois is especially well suited. It gave this home on the New Jersey shore a softening influence, besides serving as an excellent windbreak.



A partial list of prominent Dubois users is contained in this portfolio

Nowhere can you find a fence of rarer beauty or with as many practical uses as Dubois. Made in France of straight, live, young chestnut saplings, closely woven together, this product of nature blends beautifully with any style and period of architecture. If your problem is to hide some unsightly view—to keep people from staring in—or to add a touch of rustic beauty and Old-World charm to an estate or garden, you can do it economically and artistically with

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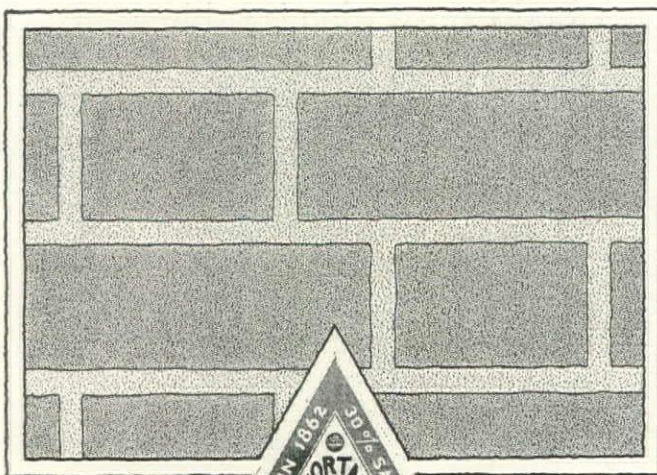
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Dubois is now made in miniature and supplied free of charge to architects for use with model houses. It lends a very realistic touch, and will help materially in giving your client a clear idea of your landscaping plans. Tell us how many inches of Miniature Dubois you need, and we will gladly send it, without obligation to you.

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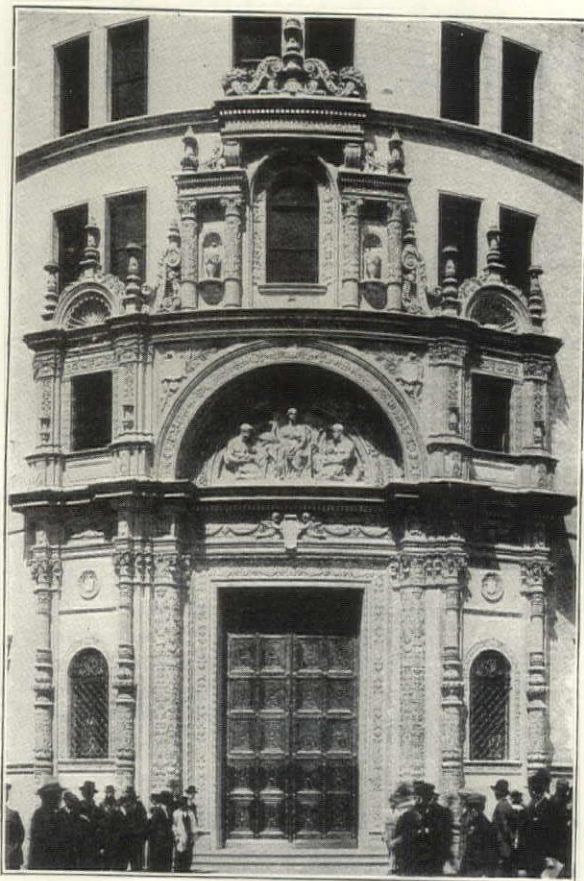
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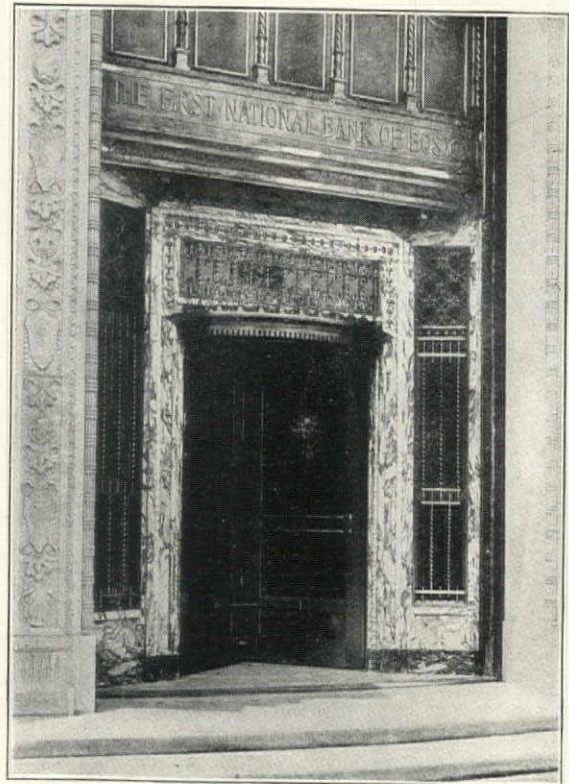
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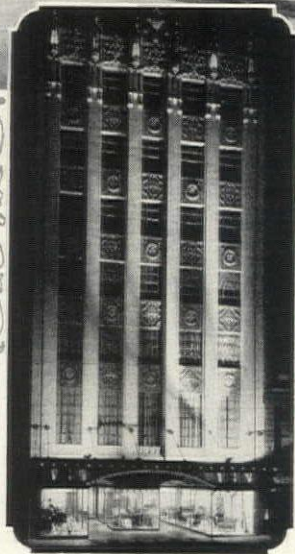
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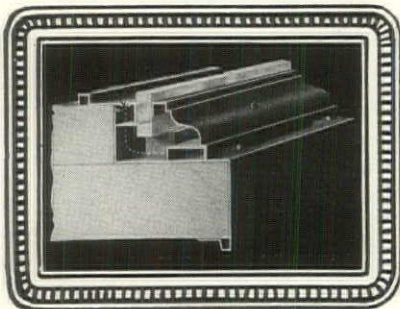
The complete store front construction of patented design is the architect's only *safe* choice. Constructions assembled haphazard can have no unity either of line or strength—the architectural beauty is missing, the structure lacks staying power.

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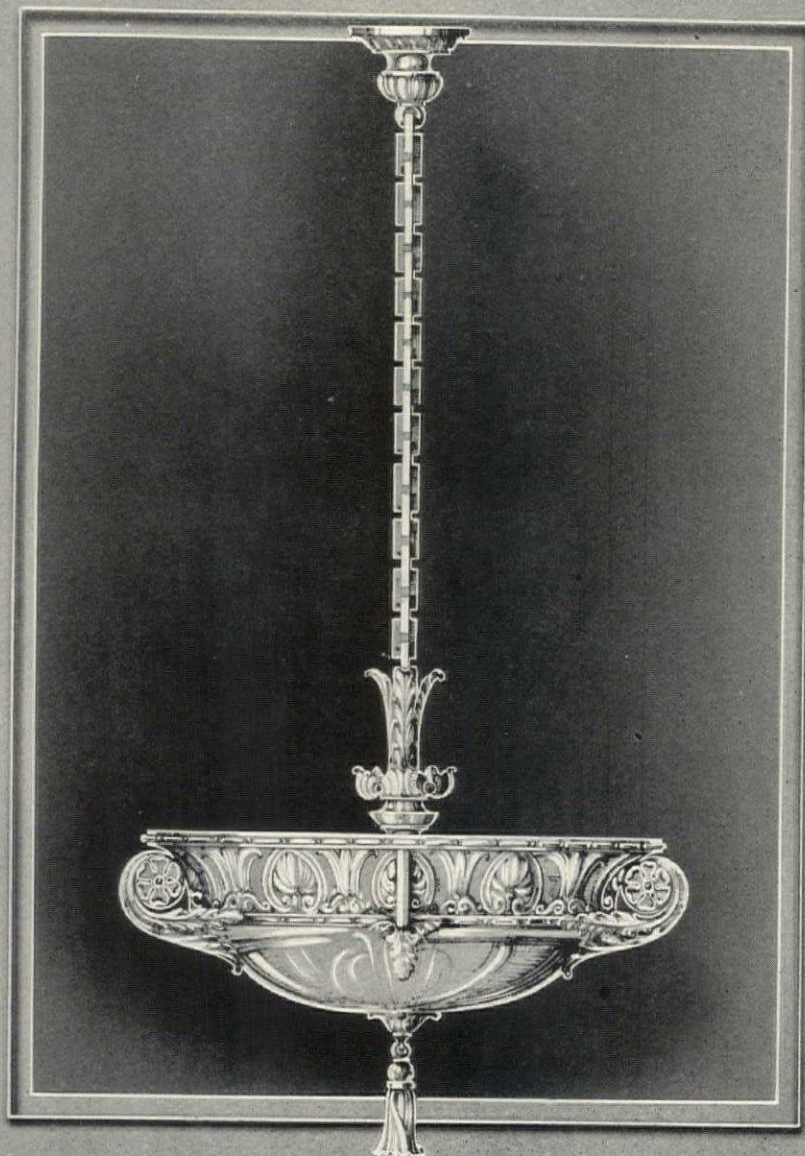
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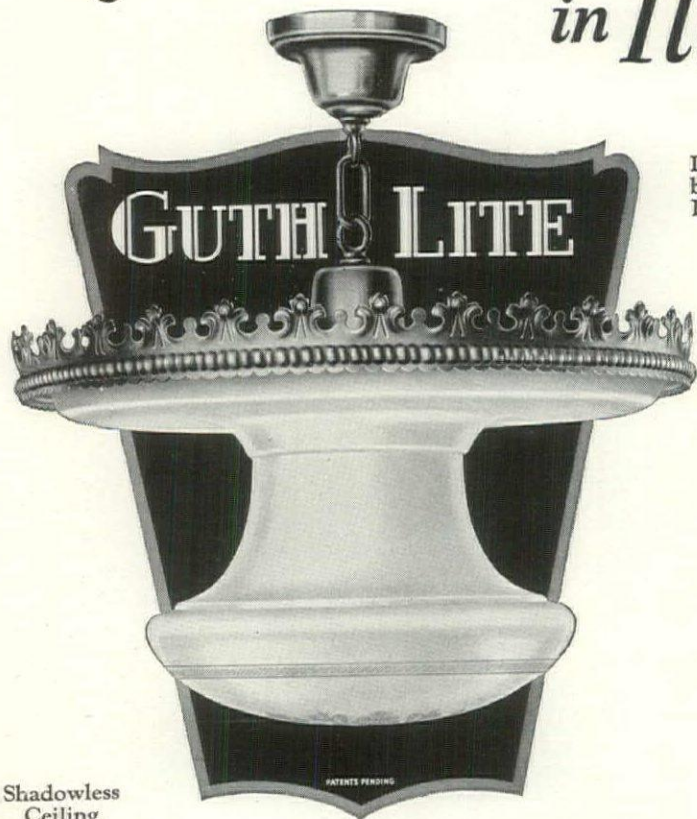
A CENTURY ago Keats poured forth his adoration of Hellenic art in the "Ode to a Grecian Urn." To him, the utmost realization of beauty was to be found in the simplicity and grace of this vessel.

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- (10) Globe quickly applied or released for cleaning or re-lamping. Cleaned in a minute.

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Wonderful new features are embodied in this new, totally enclosed illuminator—a new triumph in modern interior illumination.

The reflector is *adjustable* up or down, controlling the direction of light vertically and horizontally. Portion of the scientifically designed globe extends above reflector, providing shadowless ceiling illumination.

Note the beauty of this new unit. Beauty and efficiency combined!

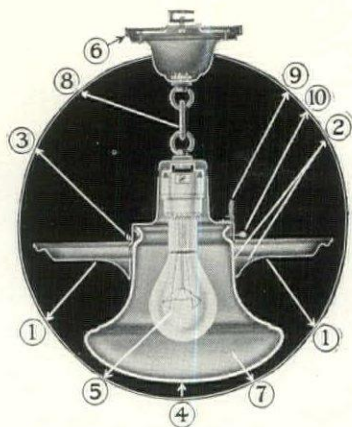
GuthLite gives a glareless flood of softly diffused white light. Maximum illumination on the working

plane. *More light where most needed!* Extremely wide light distribution. Low brightness at the source.

Canopy, hanger and ornamental metal band are finished in Antique Bronze. Reflector is White Porcelain Enamel with Ivory band. Made in plain and ornamental types. Packed in individual cartons. Complete. Ready to install.

Write for GuthLite Folder

It illustrates the various types of GuthLite, is regulation size, and bears A. I. A. file number.



Prices and Sizes:

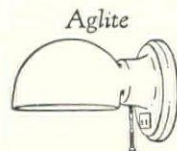
Watts	Skt.	Dia. Ref.	Glass Size	Plain Ref. Plain Glass		Plain Ref. Dec. Glass		Orn. Band Dec. Glass		Orn. Band Plain Glass	
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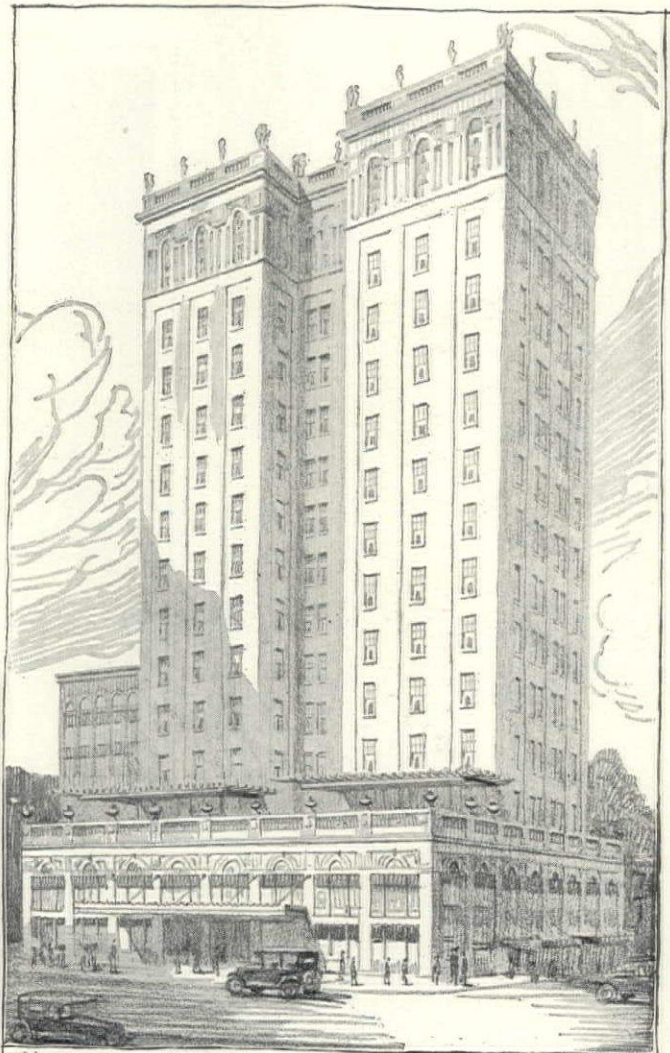
OF THE new hotels that are constantly opening their doors to the traveling public, it is noticeable that the ones enjoying the greatest patronage are those that are equipped to provide every service which might add, if only in small measure, to the comfort of their guests.

Just such a hostelry is the Washington Duke Hotel, Durham, N. C., one of the finest in the South. For its lighting equipment, MONAX GLOBES were selected as one of those important items of comfort that directly or indirectly attract a preferred trade.

MONAX GLOBES, "The Shadow Chasers," were chosen because by actual test they provide a softer and more perfectly diffused illumination than almost any other lighting glassware, spraying light *uniformly* in all directions, yet absorbing scarcely any of it. The architects who specify MONAX know just



MONAX No. 3870 K181, selected for use in the Washington Duke Hotel, as well as for many other notable installations.



“The Architect —
He lives to build, not boast”

what results these globes will give: cheerful dining rooms, absence of shadow in lobby and corridor, and plenty of restful, glareless light in the guest rooms.

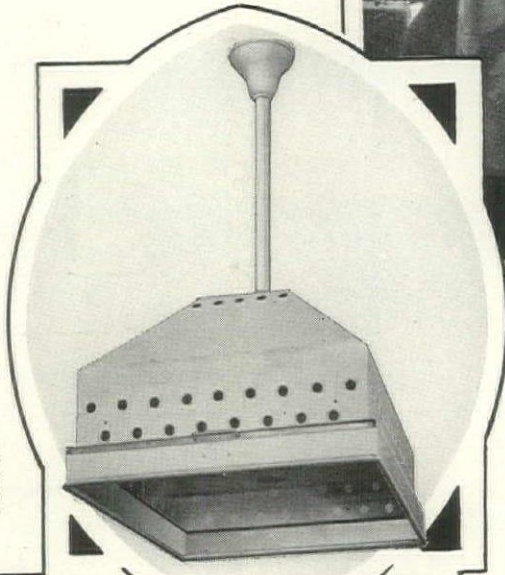
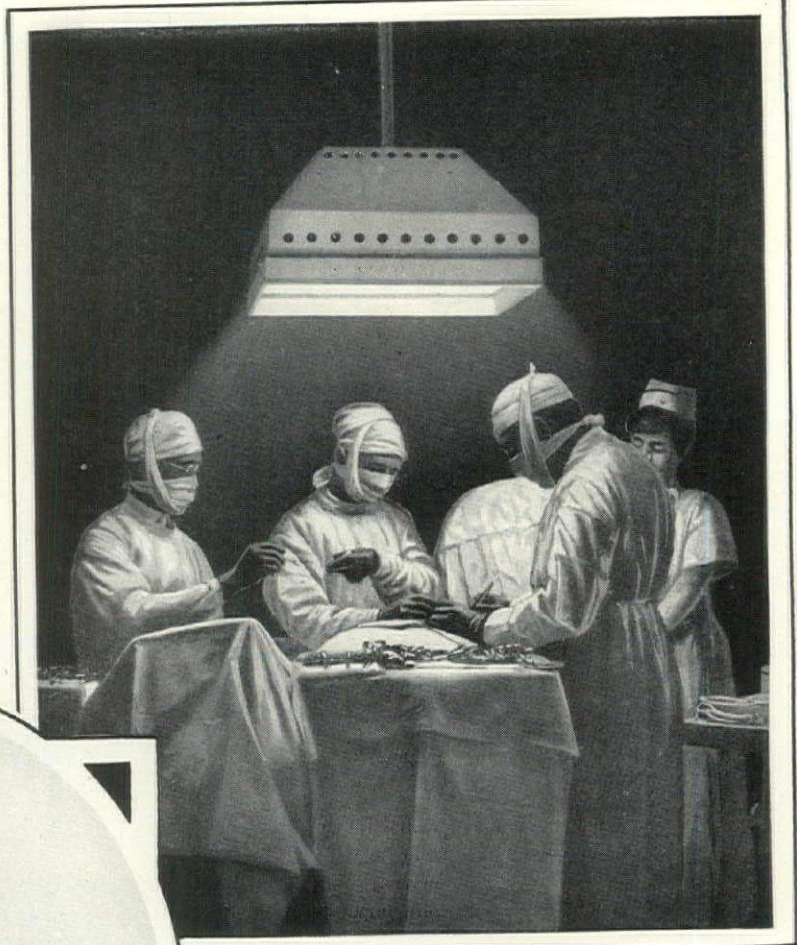
Whether your lighting problem is that of a hotel or some other project, our Illuminating Engineering Department will gladly help you in its solution. This co-operation is always yours for the asking and entails no obligation whatsoever. Macbeth-Evans Glass Company (*Eastern Division*), Department J, Charleroi, Pennsylvania.

MONAX

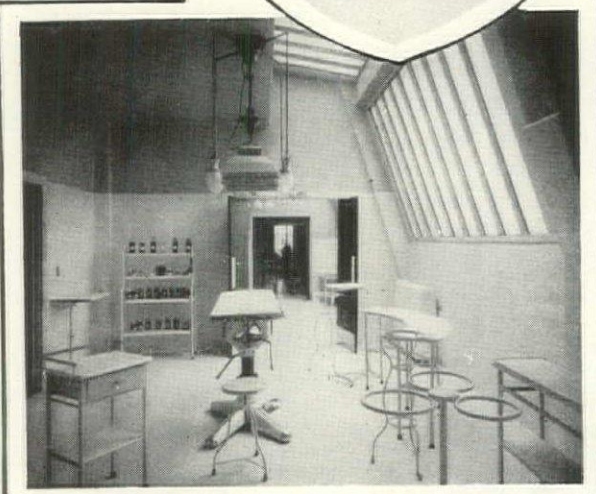
for

GLOBES Commercial Lighting





Self-ventilating operating table light. Heat of lamps drawn off through top. Raised or lowered by hand.



FRINK Hospital Illumination

NEARLY 70 years' research and study furnishing special lighting equipment for many of the important hospitals throughout the country has left us with a wealth of information on this important subject.

One of our engineers would be glad to confer with you on any problem you may have, pointing out the advantages of the various methods we have devised to overcome the problems of hospital illumination.

THE FRINK CO. Inc.

24th Street and 10th Avenue, New York

Chicago, Ill.	San Francisco, Cal.	Seattle, Wash.	St. Louis, Mo.
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30-35 Drury Lane-Kingsway, W. C. 2, London

10 Years

"PITTSBURGH'S"

CONTRIBUTION

to good
LIGHTING

A Silvered Glass Reflector That Does Not Deteriorate!

That is the contribution of the Pittsburgh Reflector Company to the lighting industry.

Lighting engineers have said for years that silver-plated glass had the highest reflecting efficiency. But when the large lamps came in, with their intense heat, it was found that the reflecting surface tarnished and discolored.

That was the situation on August 1st, 1916, ten years ago. Then the Pittsburgh Reflector Company solved the problem, and not one reflector made since that time has ever been reported to us as having the silvered reflecting surface tarnish or discolor, or the backing crack, check or peel.

Every "Pittsburgh" reflector is guaranteed for five years. We have more than made this guarantee good by manufacturing reflectors whose brilliance has already been fully retained through twice the number of years represented by the guarantee.

PITTSBURGH REFLECTOR COMPANY

411 Bowman Bldg. 3rd & Ross Sts. Pittsburgh, Pa.

REPRESENTATIVES IN 26 LEADING CITIES

"Pittsburgh"
Silvered Reflectors
STAY BRIGHT

Results of this Great Contribution to the Lighting Industry

When the Type "C" lamp came on the market in 1915 trouble began for manufacturers of silvered glass reflectors, owing to the greater heat of this new lamp. Manufacturers and engineers sought means of overcoming this trouble, whereby the silvered reflecting surface could be made permanently efficient.

The problem was solved by the Pittsburgh Reflector Company ten years ago—and thus far we have succeeded in keeping the method secret.

It is not sufficient that a reflector installation be effective when first installed. Initial efficiency is important, of course, but it is far more important that this initial efficiency be maintained throughout a reasonable period of time.

Any reflector which turns dark soon becomes worthless. Not only does such a reflector fail to serve the purpose for which it was bought, but it becomes a source of waste instead of profit.

Darkening of the reflecting surface of a reflector can easily lessen the output of light 10 per cent, 20 per cent, even one-third or one-half.

A depreciation of 10 per cent causes a waste of \$1.00 per year per 100 watt lamp; \$1.80 per year per 150 watt lamp; \$2.40 per year per 200 watt lamp.

A depreciation of 25 per cent means a waste of current amounting to \$3.00 per year per hundred watt lamp; \$4.50 per 150 watt lamp; or \$6.00 per year per 200 watt lamp.

The waste of current may easily exceed the initial cost of the installation, within two or three years.

This refers only to the wasted current—money paid out for which nothing whatever is received in return.

But more important in window lighting is the fact that any deterioration lessens the attention value, decreases the number of people who view the display, and cuts down sales and profits.

In case of cove-lighting, it is particularly important that the reflectors stay bright, because the ceiling and walls which constitute a second reflecting surface deteriorate as they become dirty. Ceiling and walls can be cleaned or painted; but deterioration of the reflecting surface of a reflector calls for new installations.

It is of great importance, therefore, not only that reflectors maintain their initial efficiency, but also that the initial efficiency be as high as possible.

The Pittsburgh secret method of protecting the silvered reflecting surface resulted ten years ago in the production of a reflector with the highest possible efficiency and having a permanent reflecting surface.

H & H PUSH SWITCH INSTALLATION



*BARKER BROS. FURNITURE CO.
LOS ANGELES.*

*CURLETT & BEELMAN
ARCHITECTS.*

*GOLDEN STATE
ELECTRIC CO.
ELECTR.
CONTR'S.*

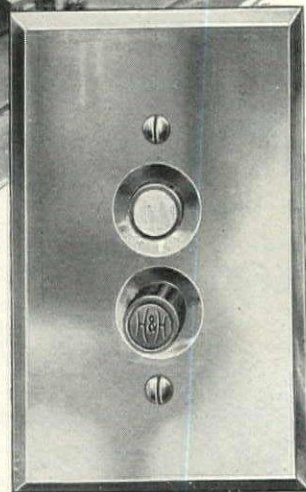
In the Largest Retail Furniture Establishment in the World

ARCHITECTURALLY and commercially, the governing motif in a great store is—*Display*.

Especially in the staging of fine furniture, the element of effective display must needs dominate the interior detail.

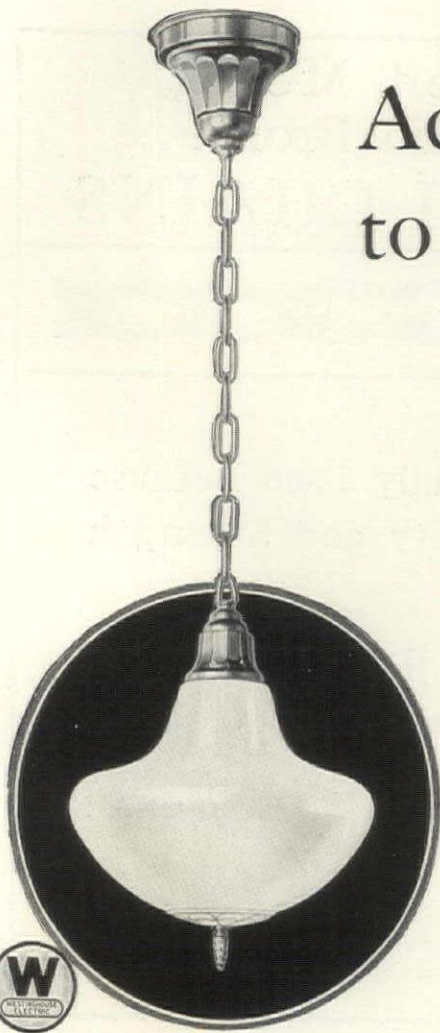
In control of the lighting, H&H Push Switches carry out the designers' aims and sustain the quality of the setting.

*It's "OLD RELIABLE" No. 2081
in the specifications.*



THE HART & HEGEMAN MFG. CO. HARTFORD, CONN.
Makers of Electric Switches since 1890

"OLD RELIABLE" 2081



Add this fine Structure to the Skyline of Sol-Lux

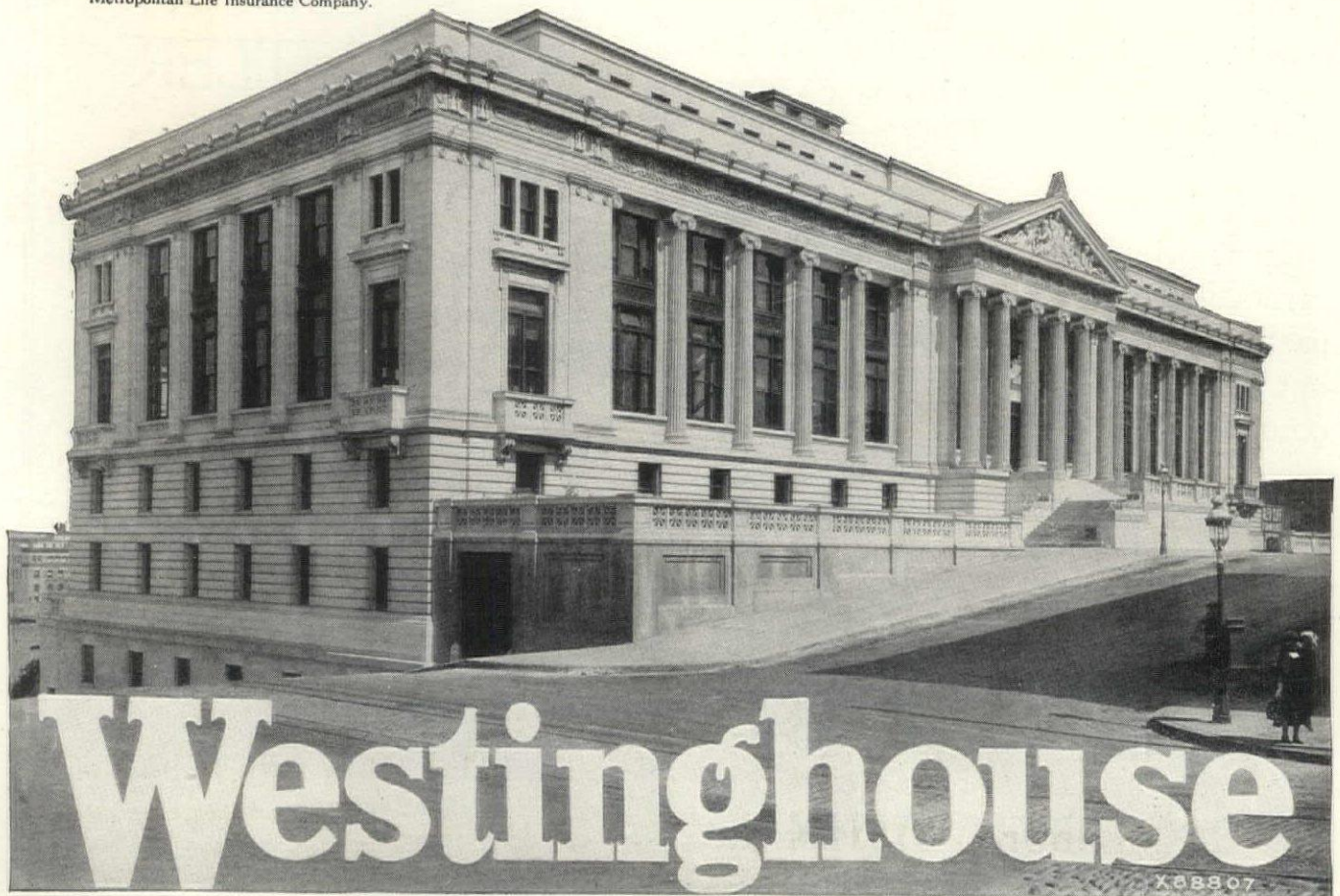
THE Metropolitan Life Insurance Company building at San Francisco takes its place in the ranks of those fine structures in which Sol-Lux lighting serves.

That's a sterling tribute to the worth of Sol-Lux, one that reflects full well the keen discernment of the men and the organization behind the building. For, with Sol-Lux, lighting is afforded that cannot be surpassed by any other lighting unit, and the dust-proof globe with the "tilt out" cap, that facilitates relamping, assures much lower maintenance expense than required by ordinary lighting units.

Get the full story of Sol-Lux, the practical lighting unit. Then specify Sol-Lux for your buildings.

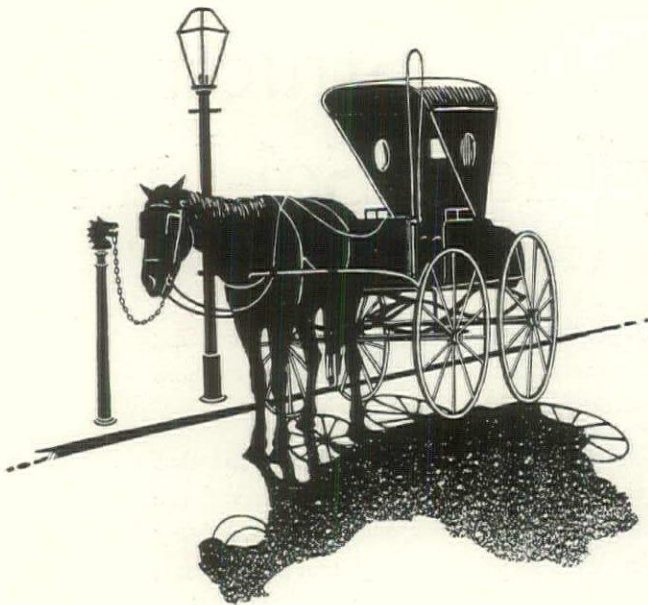
Westinghouse Electric & Manufacturing Co.
Merchandising Department South Bend, Indiana

The suspension type Sol-Lux, with plain globe, which lights the San Francisco offices of the Metropolitan Life Insurance Company.



Westinghouse

X68807



Troy, N. Y. Solves its Hitching Post Problem!

Not the hitching post problem of 20 years ago but the hitching post problem in its new dress; the motor parking evil.

The plan as evolved and carried to success in Troy, N. Y. is applicable to any city that is large enough to have a motor parking problem.

To architects and those representative citizens of any community who are earnestly endeavoring to solve their curb parking problems we'll be glad to submit the plan. There's no obligation, of course.

An attractive brochure, THE HITCHING POST PROBLEM IS HERE AGAIN, explains the program more in detail.

Your name on our complimentary architectural list "F-8" brings it to your desk.

The HOCKENBURY SYSTEM Inc.
HARRISBURG PENNSYLVANIA

"Red Metal" Solid Bronze SASH CHAINS



Universally Used Because
of Quality and Strength

The SMITH & EGGE MFG. CO.
BRIDGEPORT, CONN.

ORIGINATORS OF SASH CHAINS

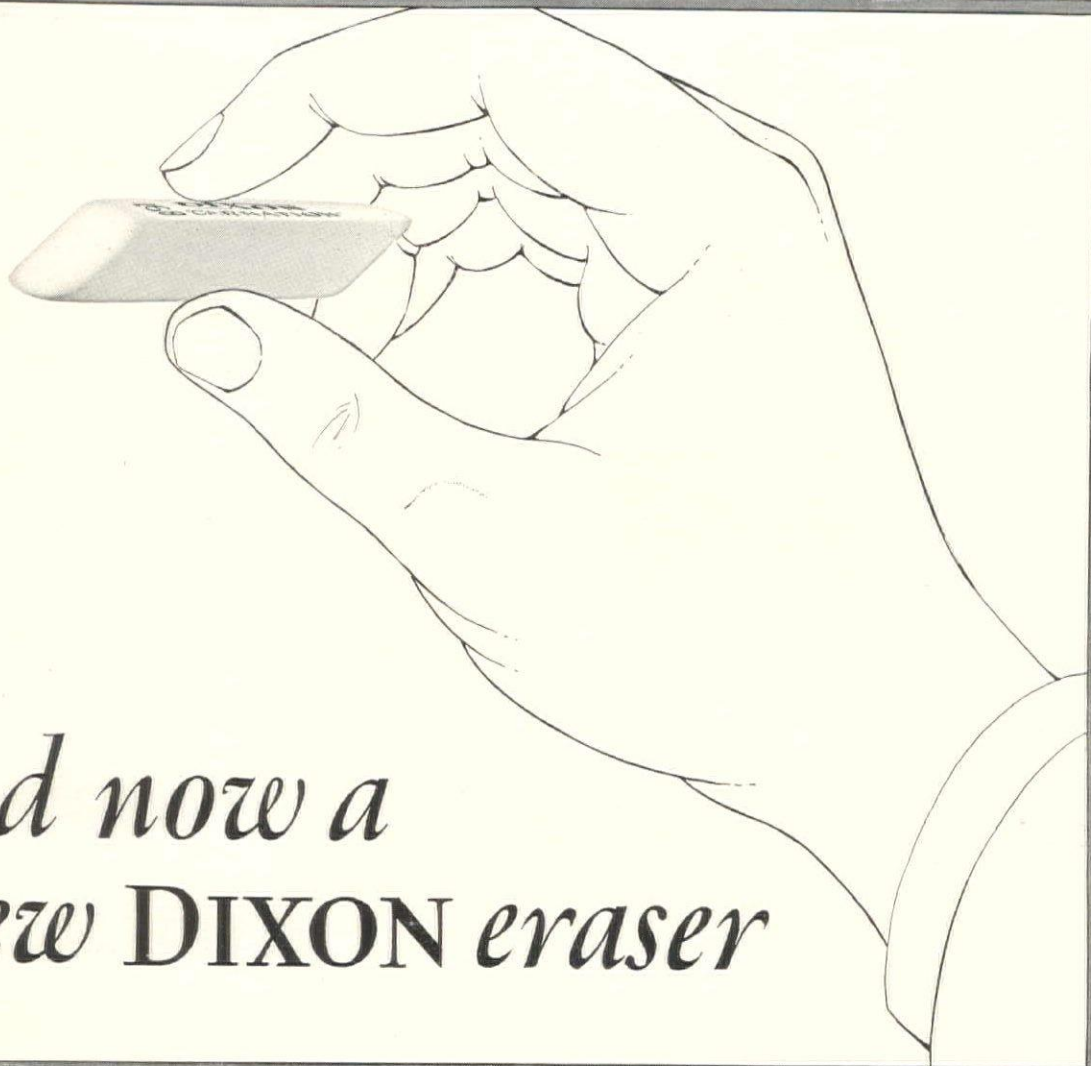
*See Page 1443, Sweet's Catalog and Pages 68-69
Specification Manual of The American Architect.
Send for catalog of other Sash Chains.*

THE CUTLER MAIL CHUTE

*manufactured in our own factory and
installed by our own Experienced
Factory Erectors, insuring uniform ex-
cellence of workmanship and prompt
and satisfactory service.*

*Specify MODEL F Standard Equipment
for Cutler quality at minimum cost. Send
for form giving information required
for estimating.*

CUTLER MAIL CHUTE CO.
General Offices and Factory
ROCHESTER, N. Y.



*And now a
new DIXON eraser*

DIXON **CARNATION ERASER**

WE KNOW you're going to like the Dixon Carnation Eraser. Just give it a tryout and watch the way it *knuckles down* to its job and *cleans-up* as it goes along. Our special process is responsible for its constant pliable efficiency. The more you use a Dixon Carnation Eraser, the more you'll realize it's the eraser you should keep within easy reach always.

SAMPLE OFFER—To give you the opportunity to see how the Dixon Carnation Eraser knuckles down and cleans-up, we will send you one free upon receipt of your name and address.

JOSEPH DIXON CRUCIBLE CO., PENCIL DEPT. 224-J JERSEY CITY, N. J.

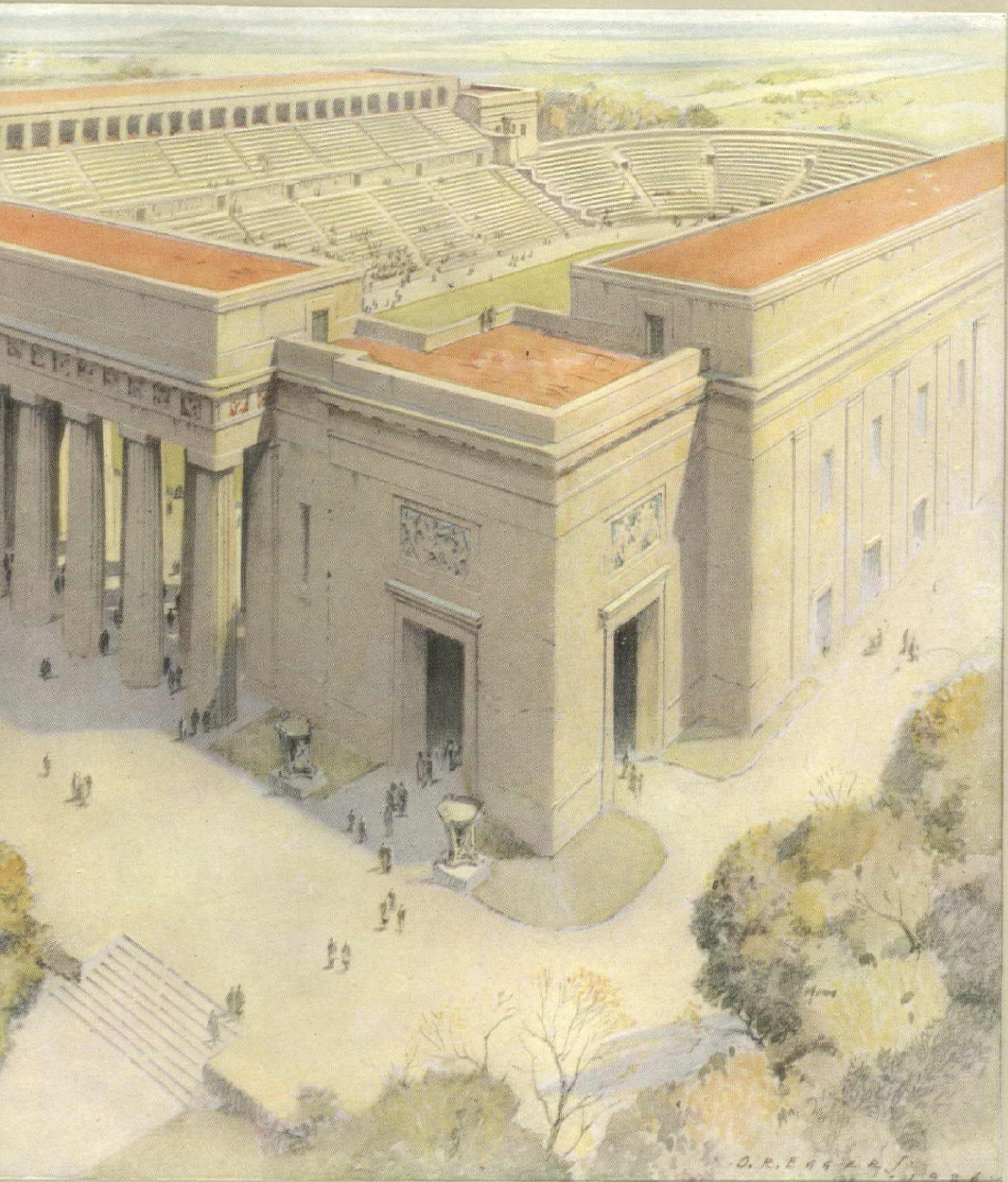
© 1916 Joseph Dixon Crucible Company



The Memorial Stadium, by OTTO R. EGGERS, of the firm of John Russell Pope

THE ARCHITECT'S VISION OF THE FUTURE

OTTO R. EGGERS here presents his conception of the Memorial Stadium of the future—a vast amphitheatre in everlasting concrete. “While we are more or less familiar with the various great modern stadiums that have been built, few people not in the building profession realize that without the use of concrete no permanent structure of this kind would be possible.”



TOWARD TOMORROW WITH LEHIGH CEMENT

THE growing demand for concrete construction will find Lehigh shaping its policy with eyes to future needs, just as today it is meeting all requirements with twenty mills from coast to coast.

Any architect or engineer can secure the series "*The Architect's Vision of the Future*," of which the above is one. Address Lehigh Portland Cement Company, Box 3-H, Allentown, Pa., or Chicago, Ill.

John Davey's great contribution to America

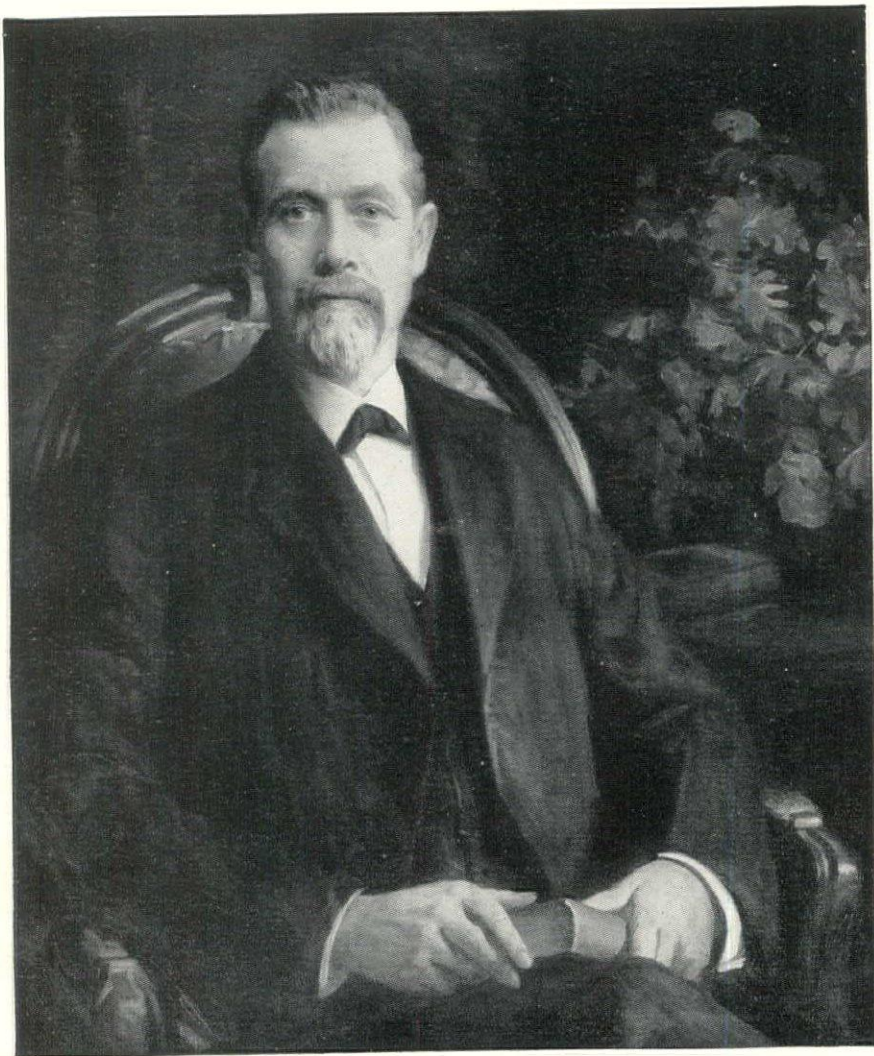


John Davey was born in England, June 6, 1846, at a time when there were no public schools. This hardy and humble genius was twenty-one before he knew his A B C's. So he started in as a full grown young man to learn to read by the slow and painful process of self-education. He began with a little copy of the New Testament and a small dictionary, picking out one word at a time. Later he acquired a grammar so that he might put the words together properly, meanwhile studying horticulture and landscape gardening during a full apprenticeship at Torquay, England.

Then he heard the call of America, this great land of freedom and opportunity; and, like many of other sturdy sons of Europe, he came here to work out his destiny. He pursued his education still further, working by day and studying by night, until he acquired an education that would do credit to the majority of college graduates.

Perhaps one of the most striking things about him was the fact that he became one of the finest Americans. He learned every word of our Constitution. He learned every word of every verse of America and the Star Spangled Banner; and, until old age laid its heavy hand upon him, he could sing those songs with a zeal that was good to see.

He became a full citizen at the first opportunity under our law, and to him it was a sacred day when he raised his right hand and



JOHN DAVEY, Father of Tree Surgery, "Do it right or not at all"

forswore allegiance to the British crown and swore allegiance to the Constitution and the flag of America. And always, during his fifty years of life in his adopted country whenever he passed by Old Glory, he would tip his hat in veneration.

John Davey saw with eyes of understanding the appalling neglect and butchery of America's trees, and he set out to find a way—a systematic, scientific way—to save them, little dreaming that a great business would be developed on the science that his love and genius created. And thus came into being the wonderful profession of Tree Surgery.

His first book, *The Tree Doctor*, was published in 1901, and then began the gradual development of The Davey Tree Expert Company, incorporated in 1909, doing a business

of nearly \$2,000,000 in 1925, and now having in the field nearly 700 master Tree Surgeons, all carefully selected, thoroughly trained, properly disciplined, and regularly supervised, and giving superior service to the tree owners of America. For twenty years the business of this institution has been managed by his son, Martin L. Davey, whose highest aim has been to perpetuate the ideals and philosophy of his pioneer father.

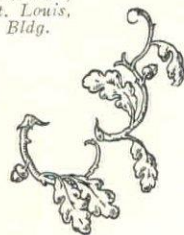
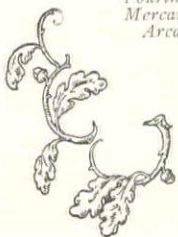
John Davey, though not now living, still lives in the spirit and purpose of the magnificent service that he rendered his adopted country—he taught the American people to think in terms of the living tree. Greater even than his creation of the invaluable science of Tree Surgery is his contribution as the apostle of the tree as a living thing.

THE DAVEY TREE EXPERT CO., INC., 359 CITY BANK BLDG., KENT, OHIO

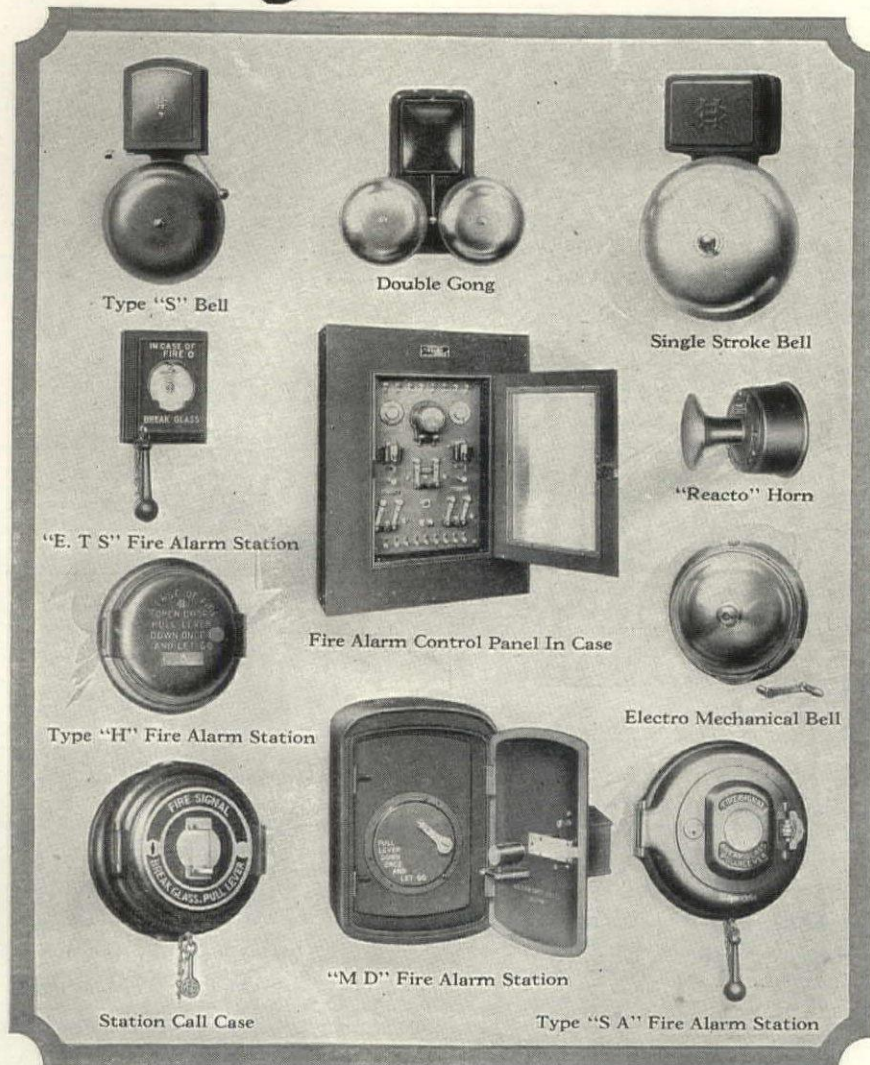
Branch offices with telephones: New York, 501 Fifth Ave., Phone Murray Hill 1629; Albany, City Savings Bank Bldg.; Boston Massachusetts Trust Bldg.; Pittsfield, Mass., Stevenson Bldg.; Providence, R. I., National Exchange Bldg.; Philadelphia, Land Title Bldg.; Baltimore, American Bldg.; Washington, Investment Bldg.; Pittsburgh, 331 Fourth Ave.; Buffalo, 110 Franklin St.; Cleveland, Hippodrome Bldg.; Detroit, General Motors Bldg.; Cincinnati, Mercantile Library Bldg.; Indianapolis, Fletcher Savings & Trust Bldg.; Chicago, Westminster Bldg.; St. Louis, Arcade Bldg.; Kansas City, Scarritt Bldg.; Minneapolis, Andrus Bldg.; Montreal, Insurance Exchange Bldg.

DAVEY TREE SURGEONS

Live and work in your vicinity—quickly available, within easy motoring distance—no carfare charged



Holtzer-Cabot



FIRE ALARM EQUIPMENT Giving Complete Protection

In the consideration of fire protection, the selection and installation of the best obtainable signaling apparatus is vitally important.

To remove the menace to life and property through fire, Holtzer-Cabot has directed its resources for over half a century.

The successful results of this effort are best evidenced in the impressive and ever growing list of important buildings Holtzer-Cabot equipped.

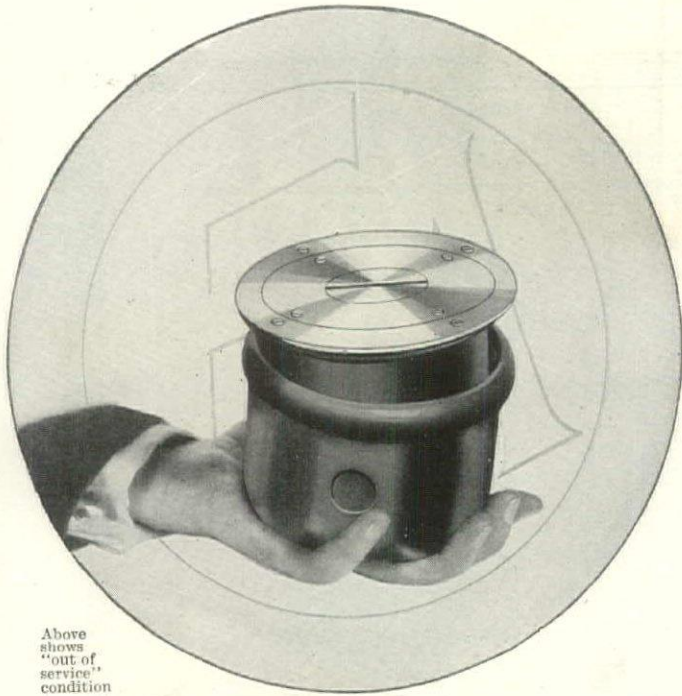
An interesting and instructive brochure on Fire Protection will gladly be sent to those interested.

MANUFACTURERS OF SIGNALING SYSTEMS FOR OVER FIFTY YEARS

THE HOLTZER-CABOT ELECTRIC COMPANY

125 Amory Street, Boston

6161 South State Street, Chicago



Above shows "out of service" condition



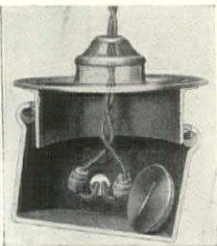
The cover is easily removed



The Flat Plug is removed from cover and the cover is reversed. Note the high rim protection on "in service" side of cover







The Split Bushing (at left) takes the place of the Flat Plug



Here is shown the "In Service" condition. The Flat Plug is placed in the Floor Box for safe keeping

SPECIFY Floor Boxes (with reversible covers)

Frankly, you will not find the same collection of good features elsewhere.  Floor Boxes are *adjustable*. They can be installed at any angle, yet the top can be adjusted to the proper floor level.  Floor Boxes are *substantial*. They cost less than two-cover type. They become a permanent floor connection for lights, bells, buzzers, telephone, etc. A quick change from "out of service" to "in service," or vice versa, can be made at any time.  Floor Boxes are *water-tight*. A heavy, round, long-life gasket gives full protection from all moisture. The inside is always dry. The wiring can never be damaged . . . You should be interested to learn more—

Send for the  Catalog. It gives full details and is entirely free. Complete estimates furnished gratis; ask for them

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FLOORING



South Side Memorial High School
Rockville Center, N. Y.
HUSE TEMPLETON BLANCHARD,
Architect

50,000 square feet of
DURAFLEX - A

A continuous seamless sheet of ductile mineral rubber. Use smooths and toughens it. Properties: long life; high durability; so sound-absorbent

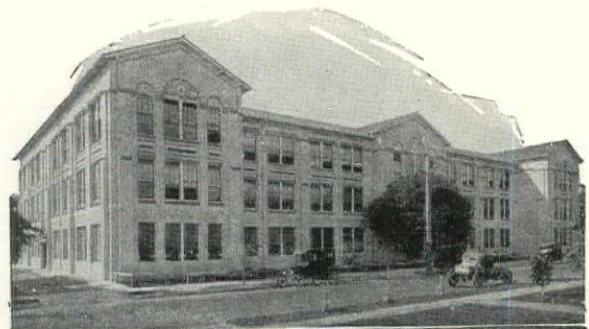
that footsteps are practically inaudible; dustless; unaffected by water, acids, or alkalis; the easiest floor to clean. Complete data upon request.

The DURAFLEX COMPANY, Inc.

Main Office and Plant: BALTIMORE, MD.

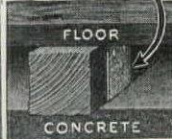
Offices: Boston, Philadelphia, New York, Washington, Pittsburgh, Representatives: Montreal, Can., Richmond, Cincinnati, Atlanta, Greensboro, N. C., Wilkes-Barre, Reading, Pa., Cumberland, Md. Greenville, S. C., Los Angeles, San Francisco.

DURAFLEX-A



JUNIOR HIGH SCHOOL, MIAMI, FLORIDA
H. H. Mundy, Architect
Geo. Jahn, Contractor

The Saving Is
HERE



Use the "Junior" Bull Dog
where fill is required.



MATERIAL and equipment for the new Miami Junior High School was selected according to the finest standards. Floors are anchored over concrete by twelve thousand Bull Dog Clips.

Write for samples, installation charts and cost data to complete your files.

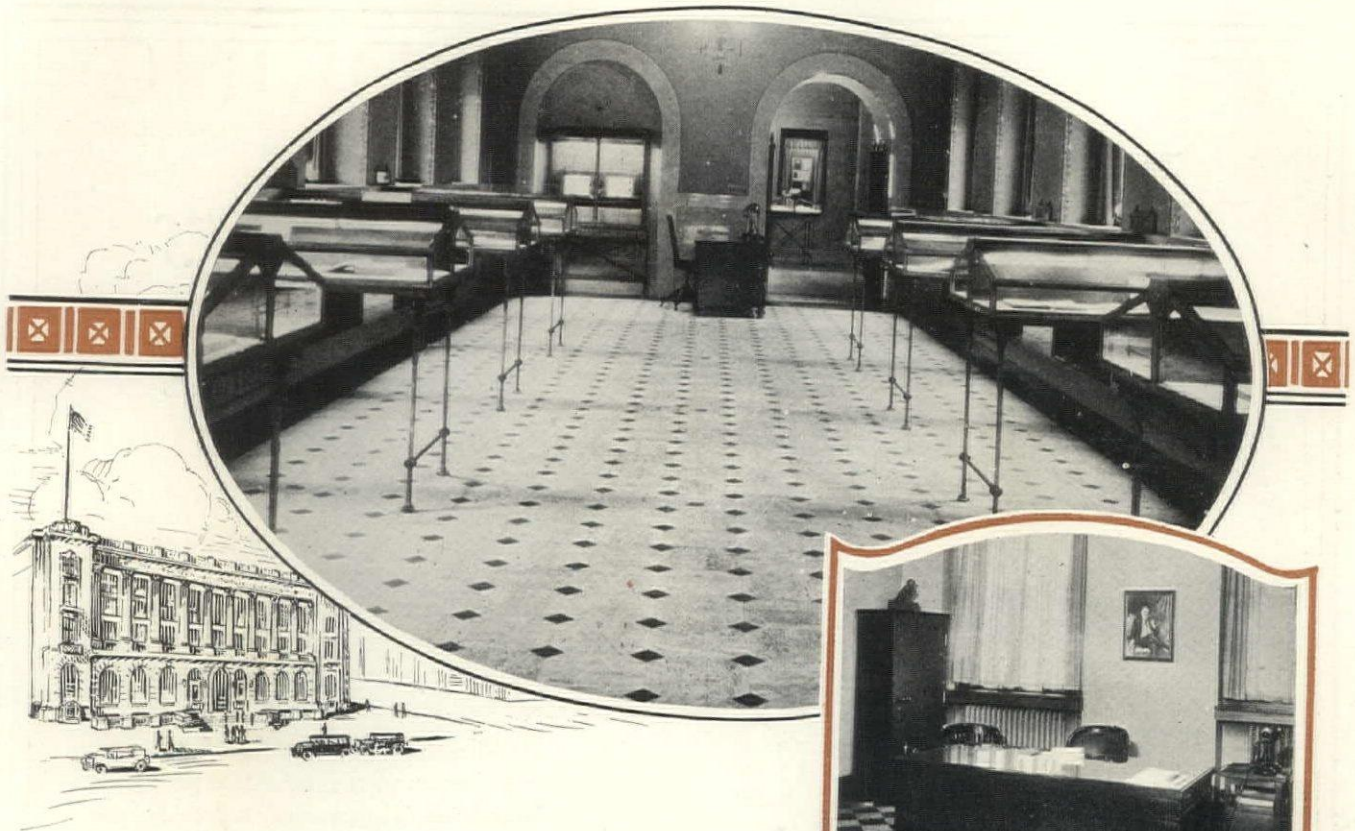
Bull Dog Floor Clip Co.
108 North First Ave.,
Winterset, Iowa, U. S. A.

Distributors in principal cities.



BULL DOG Floor Clips

ANCHOR WOOD FLOORS TO CONCRETE



*In Cleveland's
new Public Library—*

Wherever floors of unusual beauty and durability are desired—"U.S." Tile, the master flooring product of the United States Rubber Company, is the logical choice.

Over 55,000 feet of the "U.S." Tile have been installed in the new Cleveland, Ohio, Public Library. This is just one of scores of recent outstanding installations of "U.S." Tile.

When you include "U.S." Tile in your specifications you guarantee your client flooring permanency, combined with remarkable colorful beauty—quietness—ease of cleaning—and exceptional economy of maintenance.

Available in a large variety of colors and designs. Write today for detailed specification data.

United States Rubber Company

Flooring Department

1790 Broadway New York City



"U.S." TILE FLOORING

Maple *for the floors* in the famous STRAUS Building in Chicago



Guaranteed Floorings

The letters **MFMA** on Maple, Beech or Birch flooring signify that the flooring is standardized and guaranteed by the Maple Flooring Manufacturers Association, whose members must attain and maintain the highest standards of manufacture and ad-

here to manufacturing and grading rules which economically conserve every particle of these remarkable woods. This trade-mark is for your protection. Look for it on the flooring you use.

MFMA

The Straus Building, Chicago, is one of the "sights" of that city—regarded as one of the finest office buildings in the world. Its owners placed behind their architects every resource. They were building for permanence in service and appearance.

The Straus Building is floored with *Maple*. The far-sighted projectors of the structure say: "It was decided to use wood because of its greater resiliency and warmth . . . obtaining a surface more comfortable and pleasant under foot."

Today, after thousands of people have trudged through the building, these floors are as inviting as the day they were laid.

Ten years from now visit the Straus Building, and see the fine, smooth, polished condition of the floors! It will be interesting in 1936 for an expert to figure the *saving* accomplished by using beautiful, tight-grained, tough-fibred Maple.

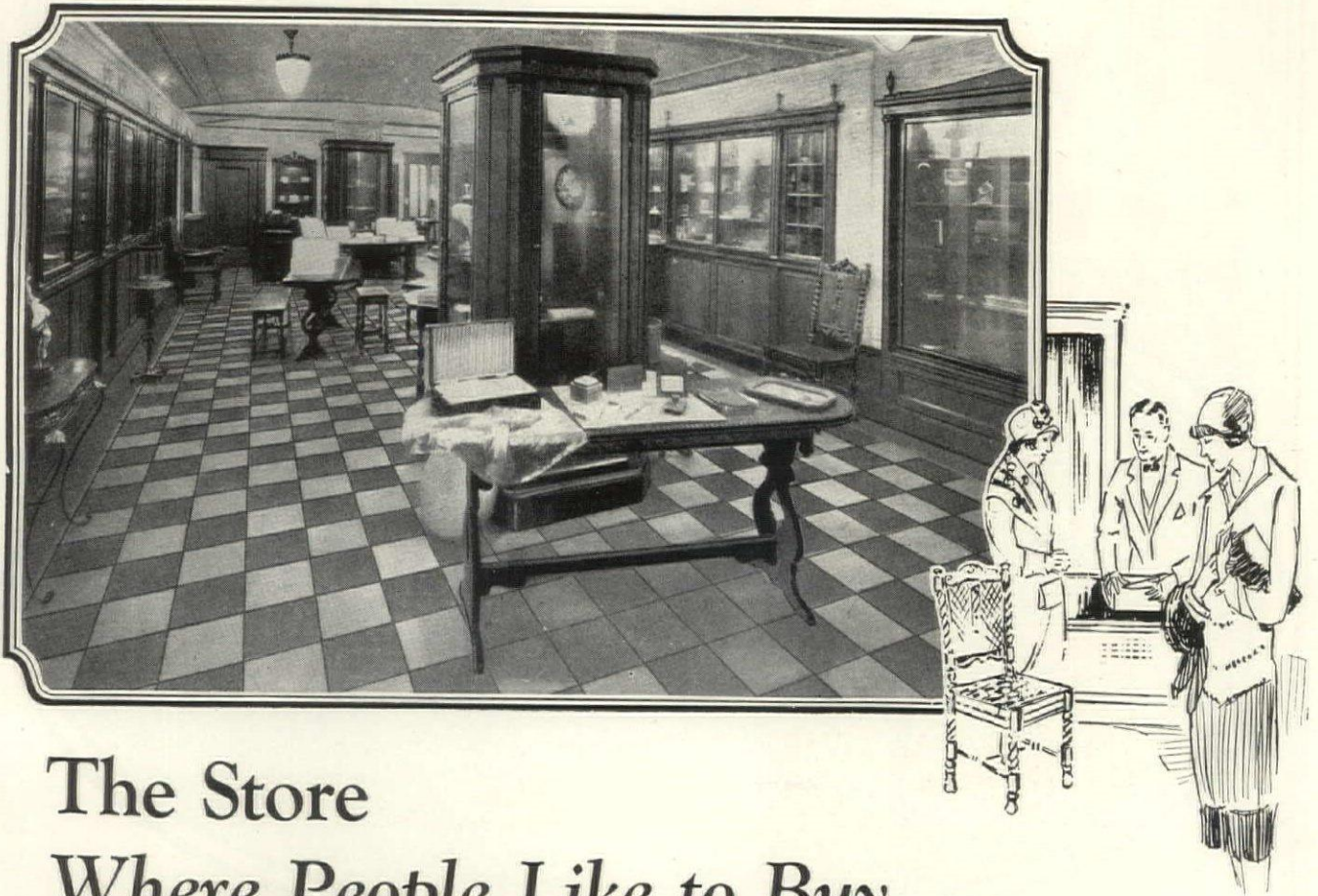
Your architect will tell you how, when and where to use Maple flooring. Ask your lumber dealer for quotations. Send for any or all of the free booklets listed.

- Hardwood Flooring in Office Buildings.*
- Floors for Educational Buildings.*
- Roller Skates and Service Floors.*
- Three Native Hardwoods of Sterling Worth.*
- The Floors for Your Home.*

MAPLE FLOORING MANUFACTURERS ASSOCIATION
1057 Stock Exchange Building, Chicago

Floor with Maple Beech or Birch

THIS colorful floor in the shop of Hall Brothers Stationery Company, Kansas City, Mo., harmonizes beautifully with the entire decorative scheme. It is composed of ten-inch alternate squares of Light Brown and Dark Brown Linotile with a quarter-inch black interliner between. The border is formed of one-inch Light Brown and half-inch Black Linotile.



The Store Where People Like to Buy

NOT the least important detail in making a store attractive to buyers is a floor that is comfortable to walk on, pleasing to look at—such a floor as Linotile. Its resilience and noiselessness under foot and its fresh, clean colors and attractive designs create an impression of quality and refinement—an invitation to “come in again.”

Linotile, with its wide variety of design and color, not only meets every architectural requirement of beauty and harmony with the decorative scheme, but is at once practical and economical.

Linotile is *practical* for the store floor because it can be laid over any smooth, dry base and readily adapted in design to areas of any shape or size. It is easily cleaned

and, regardless of wear, remains as smooth and bright as the day it was laid.

Linotile is an *economical* store floor because its first cost is reasonable and its upkeep very low. It needs no refinishing, no varnishing. It does not buckle or crack, and is remarkably durable, showing little trace of wear even at doorways and counters.

Linotile is a cork composition made in tile form. It is resilient, nonabsorbent and nonslippery. It is furnished in 12 colors and in squares, oblongs and strips of many sizes. Linotile and its uses for stores is fully described in the 36 page book, “Linotile Floors for Public and Semi-Public Buildings.” Copy and sample sent on request.

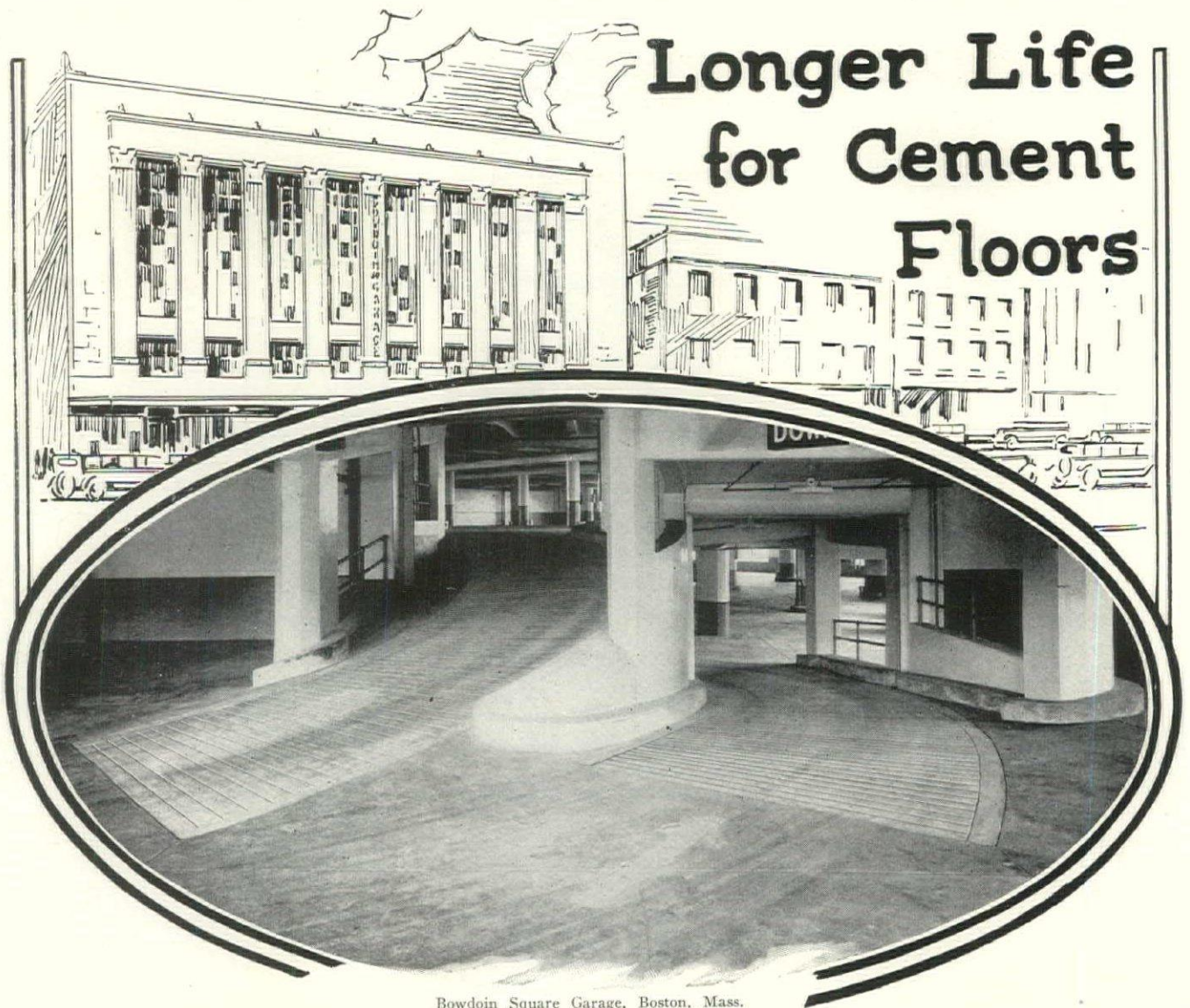
ARMSTRONG CORK & INSULATION COMPANY

Division of Armstrong Cork Company

132 TWENTY-FOURTH STREET

PITTSBURGH, PA.

Linotile Floors



Longer Life for Cement Floors

Bowdoin Square Garage, Boston, Mass.
Ralph Harrington Doane, Architect
Chase & Gilbert, General Contractors

THE ramps in this garage—one of Boston's newest and finest—have been made both slip-proof and durable by using Alundum Aggregates in the cement. And the slip-proof feature is not affected by water and oil. The aggregates have also been used in the treads of the main stairway.

Alundum Aggregates are a semi-vitreous product made by bonding hard, tough Alundum abrasive with clay. Their slightly porous structure causes them to bond perfectly with cement, becoming an integral and permanent part of the floor. The result is a walking and trucking surface that combines exceptional resistance to wear with slip-proof effectiveness.

Alundum Cement Floor [C. F.] Aggregates are marketed in two sizes—the coarse (.295"—.100") for the finish course or topping and the fine (.100"—.0322") for surface treatment only.

Alundum Aggregates for terrazzo floors are marketed in four sizes and five colors.

NORTON COMPANY, WORCESTER, MASS.
New York Chicago Detroit Philadelphia Pittsburgh Hamilton, Ont.

T-175



NORTON FLOORS

Alundum Tiles, Treads and Aggregates

*We advertise this way
to your clients —*



*— and here's
something else
of importance
to you!*

How a Canadian Guide's story sold a roof—

" nine hours we prayed there," concluded Ed, the guide. "1600 people—every soul in Iroquois Falls.

" near half a day that forest fire roared outside like big rapids. Nothing left next day but black ashes nothing but the power house* where we crowded. That was 10 years ago—July 29th, 1916."

Ten days later the two fishermen left Ed and the woods—headed for the States. Two hours wait for a train in Iroquois Falls—plenty of time to look over the power house of Ed's story.

They found a steel and concrete structure covered with a Barrett Specification Roof—found that this roof 10 years after its ordeal by fire was still in perfect condition, had never cost one cent for repairs or maintenance.

"Which," said one of the fishermen, dryly, as they walked toward the station, "pretty much settles the kind of roof we'll have on our new plant."

An exceptional test, yes! But not exceptional that the Barrett Specification Roof stood up under it. The fire-

safe qualities of these roofs are acknowledged. As the building world knows they take the base rate of fire insurance. But this is not the quality that makes them stand out.

For service records on file testify that many Barrett Roofs of this type, built 35, 40 and more years ago, are still absolutely weather-tight—and not a cent spent on them for maintenance.

Barrett Specification Roofs are guaranteed by a Surety Bond against repair or maintenance expense for a full 20 years.

You're interested? Then dictate a brief memo to The Barrett Company, 40 Rector Street, New York City. We'll give you the full story—promptly.

Of course, you might, for sound reasons, want a built-up roof constructed according to your own specification.

Even so, don't neglect this fact: the experience of leading architects and builders over a period of more than 60 years have shown that it pays to construct a built-up roof of pitch and felt—both labeled Barrett.

*The facts back of this story: In the summer of 1916 a forest fire swept 650 square miles of Ontario forests. At Iroquois Falls the population took refuge in the plant of the Abitibi Pulp & Paper Co.—reinforced concrete structure with a Barrett Specification Roof.

Raging fire surrounded this building for 9 hours—the air full of flying embers driven by a sixty mile wind. Building and roof were unharmed. The roof today is in perfect condition.

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Volume 3 of our Architects & Engineers Built-Up Roofing Reference Series gives detailed description of this roof flashing system. If not already in your files, a brief note to our Built-Up Roof Department (address below) will bring you a free copy.

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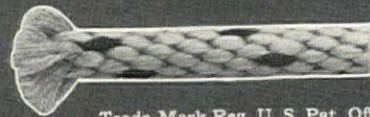
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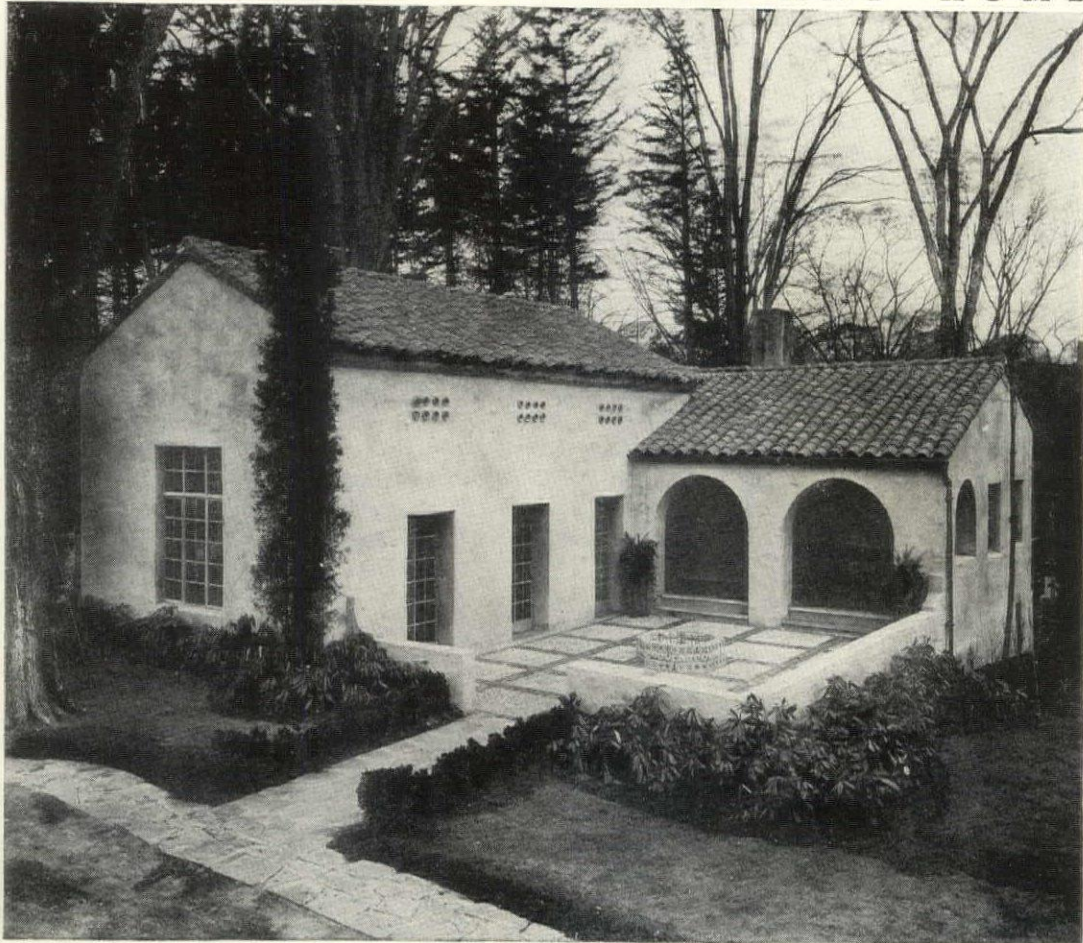
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than a standard No. 1 slate shingle

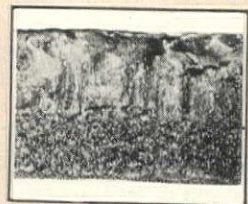
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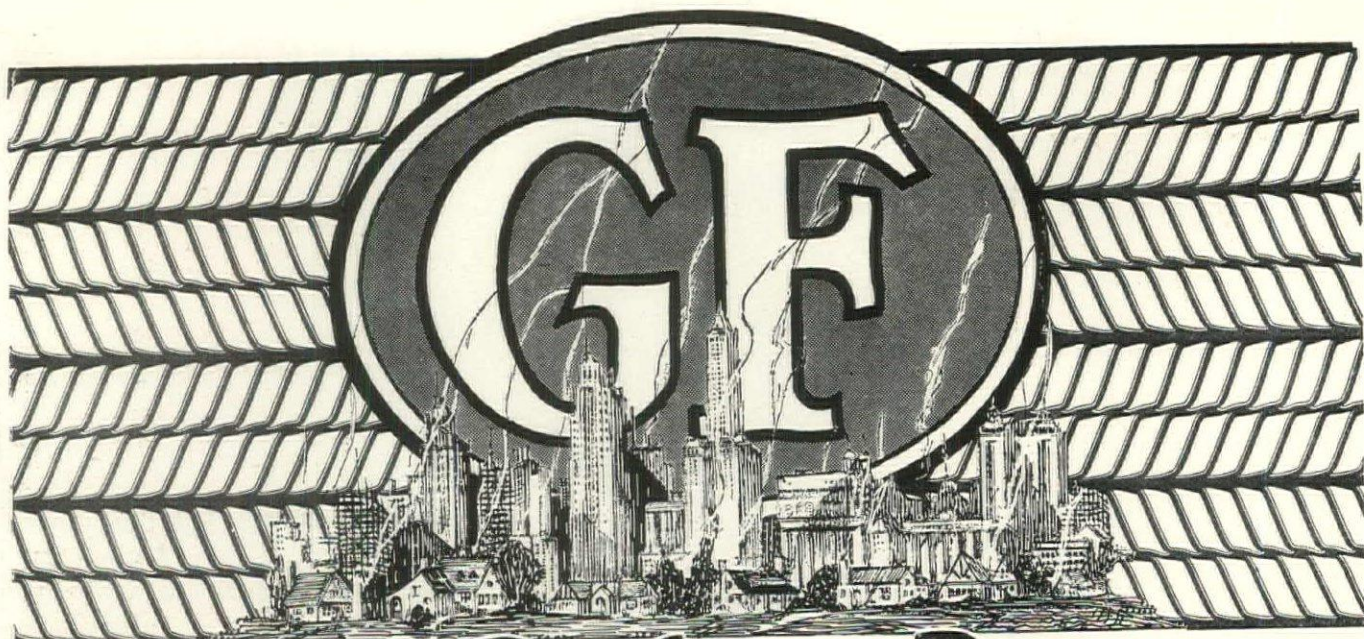
The wearing qualities of Preston Shingles are dependent not only on the quality but also on the quantity of asphalt which each shingle contains. If you examine the edge of a Preston Shingle you will notice that it is practically a solid body of asphalt. This feature of Preston Shingles accounts for their remarkable wearing qualities.

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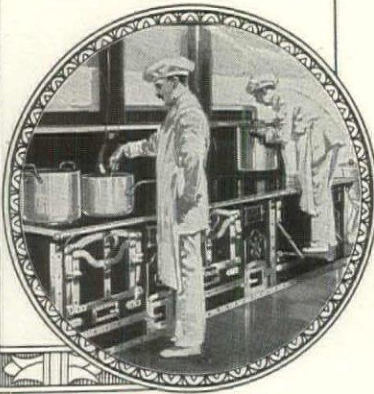




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Moreland Courts Apartments, Shaker Heights, Cleveland, O. Owners: Shaker Company. Architect: A.L. Harris, Cleveland. Builders: Craig-Curtiss Company, also of Cleveland.

Below: Views of representative kitchens, showing Dangler and New Process Gas Ranges with Lorain Oven Heat Regulators.

Don't Slight the Kitchen

TENANT-SATISFACTION often depends upon the equipment furnished in apartment kitchens. That is why the keen-sighted business men, responsible for the success of the finest apartment-building projects, are specifying Gas Ranges with Lorain Oven Heat Regulators.

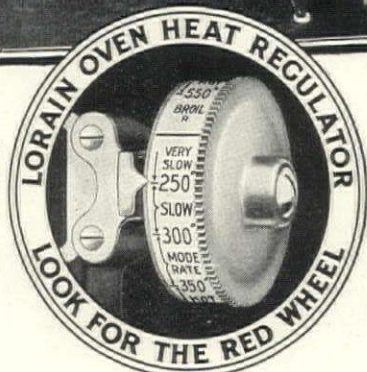
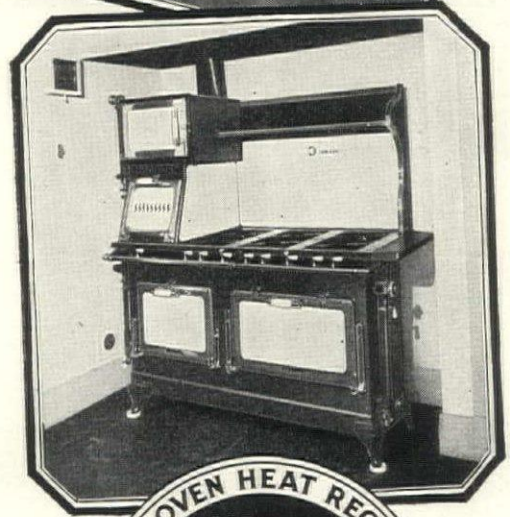
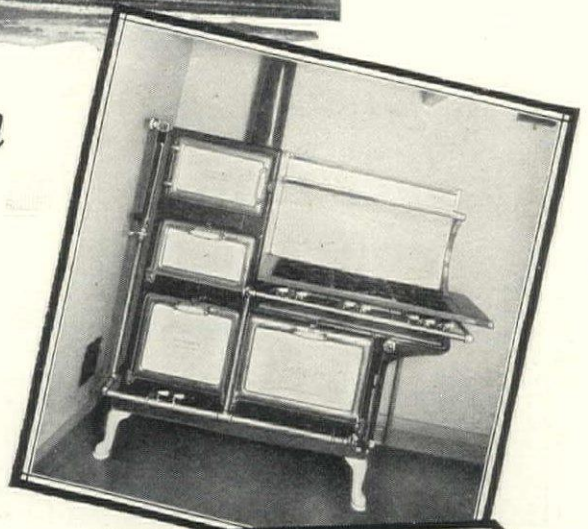
These men realize that millions of women see the advertisements of the Lorain in their favorite magazines every month. They know that women recognize the Red Wheel as a mark of superior quality and service—a guarantee of easier, better cooking and smooth-running kitchen affairs.

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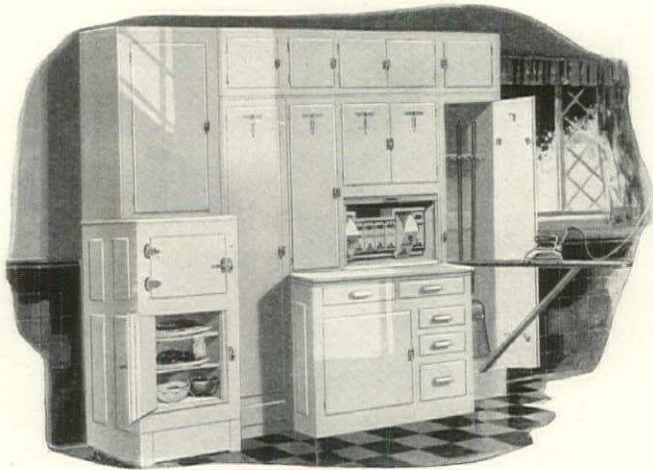
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Unless the Regulator has a RED WHEEL it is NOT a LORAIN

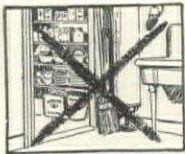
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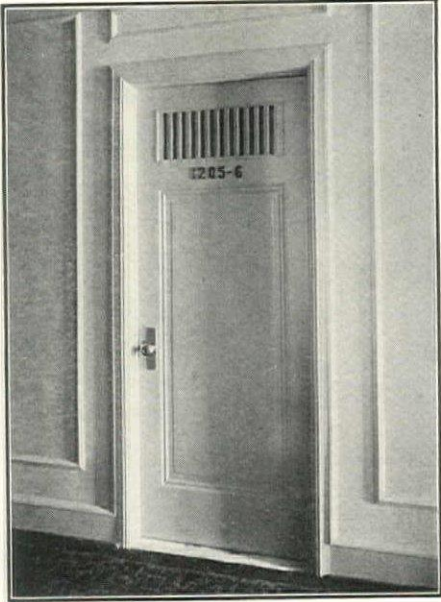
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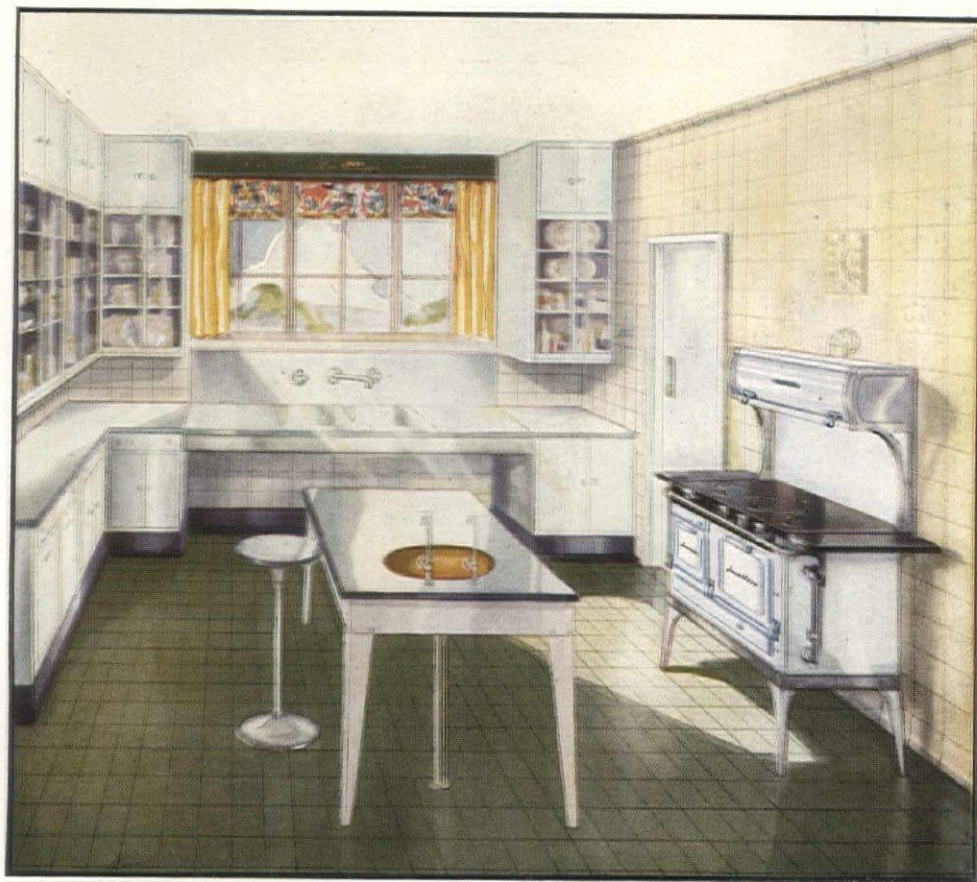
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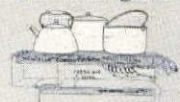
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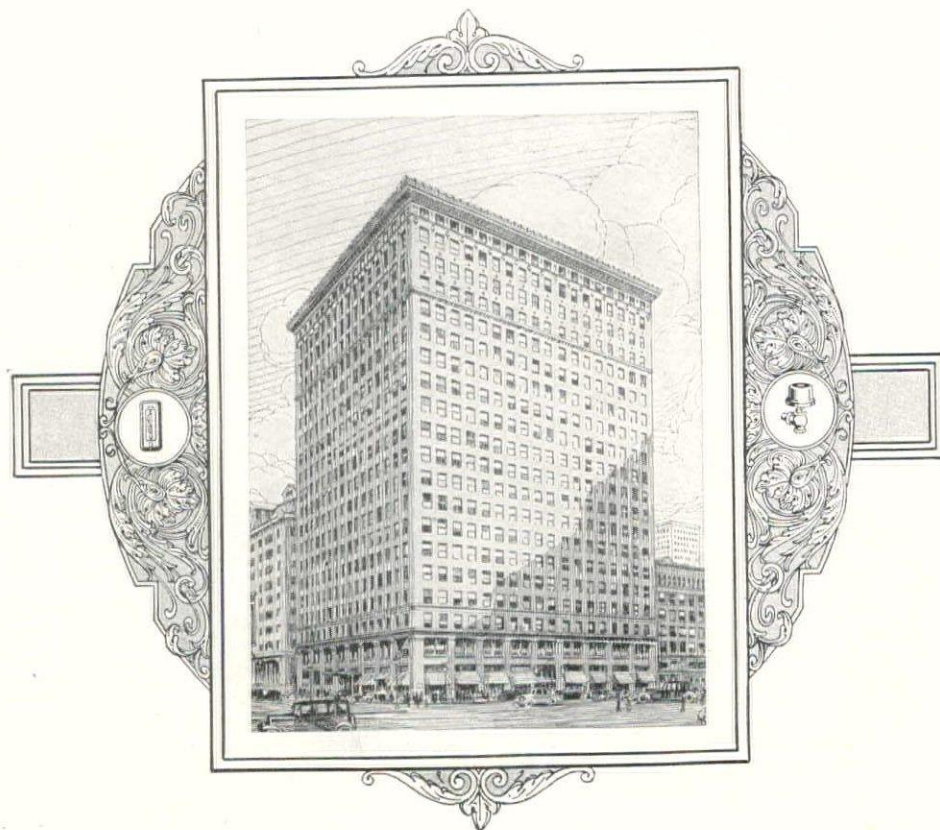
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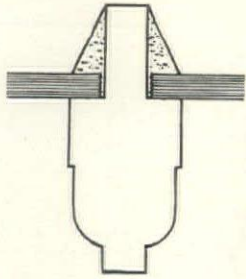
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Johnson Dual or Two Temperature Thermostat: one temperature for occupied rooms, another temperature for unoccupied rooms day or night. Write for details of this Johnson advantage.



One of those little things that make the living room in Mr. Child's home beautiful in detail as well as in general design and proportions is the character of the moldings in the casement sash. If the photograph were larger you could see that each thin division bar between the panes of glass is delicately molded. The drawing above is a cross-section of a muntin, or division bar, and shows the exact shape of this molding. All Curtis Woodwork shows care in such matters.



Curtis Casement sash, in the living room of the home of Mr. Edward T. Child, in Larchmont, N. Y.; Aymar Embury II, architect; The New Rochelle Coal and Lumber Company, New Rochelle, N. Y., dealers.

So much beauty is due to woodwork alone!

That is why some architects are able to build a wealth of beauty for very little money, into the homes of their clients

ASK the average woman what she considers essential to beauty in a room and the chances are she will mention rugs, furniture, curtains and antiques long before she includes doors, windows, trim and other woodwork or architectural details.

It is only when the architect points out that it is the architectural background of a house which makes it beautiful regardless of movable furnishings, that the average client begins to appreciate the service the architect renders for his fee.

What house designed by an Aymar Embury II or any other good architect is not capable of standing by itself, empty, if need be, and proclaiming its own intrinsic beauty? Such a house is

homelike with even the most modest fur-

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Go see some Curtis Woodwork and judge for yourself. The leading dealer in woodwork in your town (if your work is east of the Rockies) probably handles the line and has some in stock or on display. He will also supply you with a Curtis Catalog from which you can select the designs and sizes to fit your plans.

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459 Curtis Bldg., Clinton, Iowa*

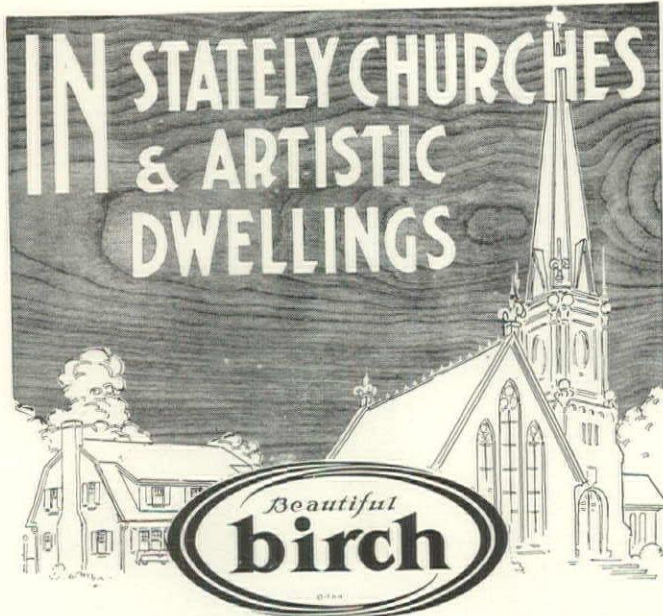
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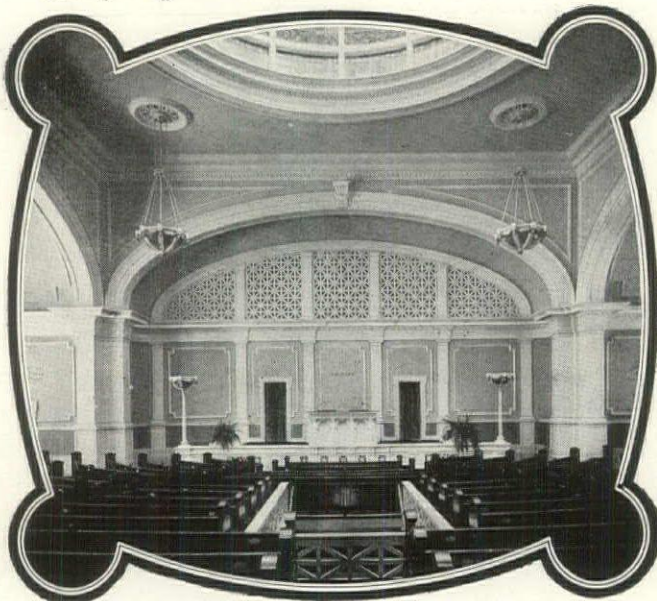
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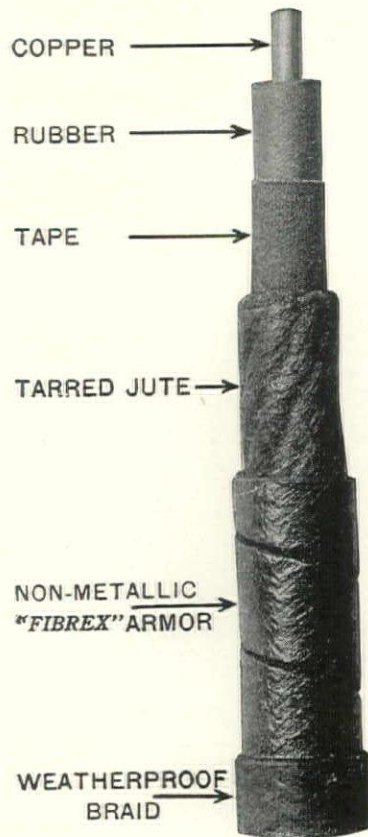
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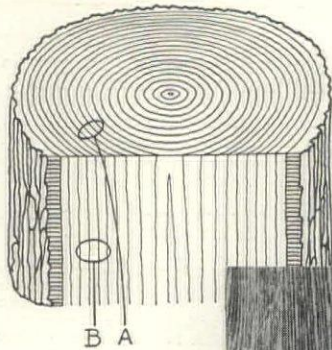


Fig. 1

These illustrations show the effect of timber growth upon flooring. Slow growth, which depends on favorable climate, soil and drainage, causes the close annular growth rings (A), which, in turn, produce the fine, even grain (B), typical of all Ritter Appalachian Oak Flooring (Fig. 1), the use of which assures the most beautiful oak floors.

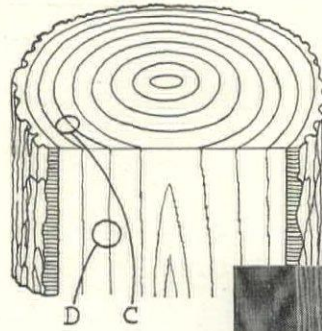
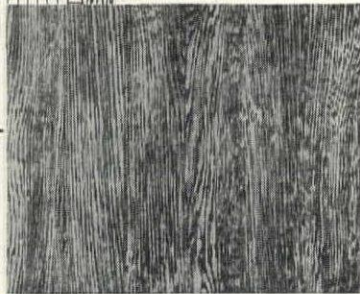
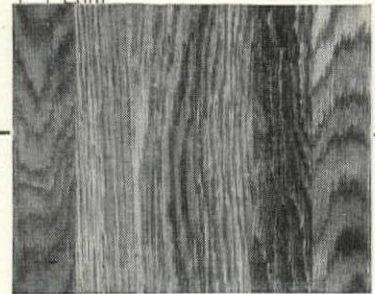


Fig. 2

On the other hand, fast growing Oak results in the wide annular growth rings (C), which, in turn, produce the coarse grain (D). Figure 2 illustrates a panel of flooring made of rapid growing Oak. Such flooring lacks the elegance and charm characteristic of Ritter Appalachian Oak Flooring which is manufactured exclusively from slow growing Appalachian Highland Oak timber.



Fine grain and even texture are essentials of beauty in Oak floors

SLOW growth of the timber from which Ritter Oak Flooring is manufactured is the basis of its fine grain and uniform texture, qualities so necessary in obtaining beauty and elegance in the finished floor.

The climate, soil and drainage of the Appalachian Highlands favor slow tree growth, which produces the close annular growth rings (A).

These rings, in turn, produce the fine, even grain and uniform texture indicated by the lines (B), typical of all Ritter Oak Flooring, Figure 1, which is manufactured exclusively from Oak timber grown on the well-drained slopes of the Appalachian Mountains.

On the other hand, fast growing Oak causes the wide annular growth rings (C), which, in turn, produce the coarse grain (D). Figure 2 shows flooring made from rapid

growing Oak, lacking the dignity and elegance characteristic of Ritter Appalachian Highland Oak Flooring.

In the Standard Rules for Grading Oak Flooring, no consideration is given to grain and texture; therefore, to be certain of getting the most beautiful Oak floors obtainable, many architects specify "Ritter Appalachian Highland Oak Flooring." For ready identification every piece is branded on the back, "W. M. Ritter Lbr. Co."



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Some California homes in which Ritter Oak Flooring was used.



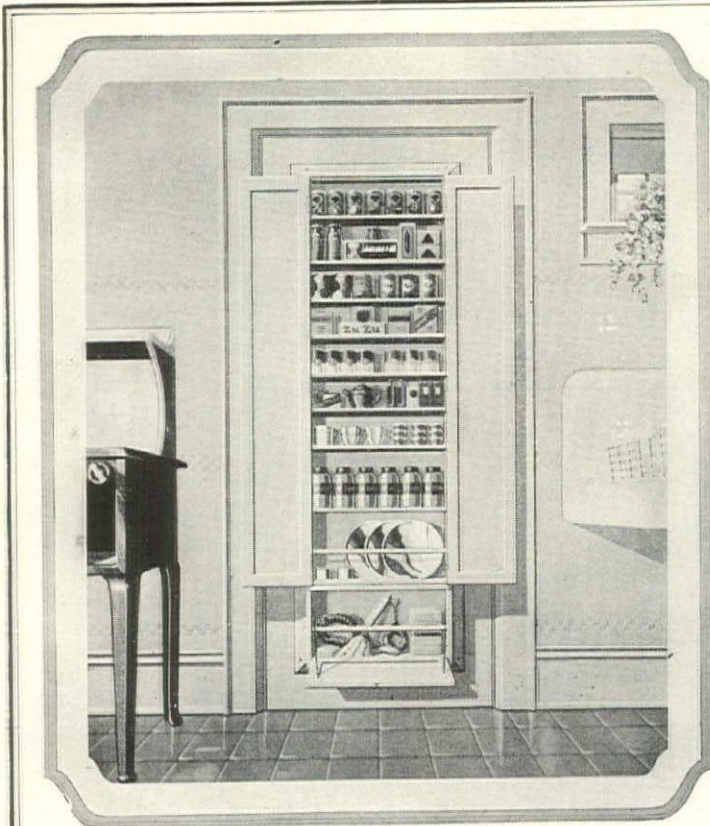
Residence of George Spain, Los Angeles, Calif. Architect, Myron J. King. Contractor, Harry Weenick & Sons.



Residence of C. E. Listenwaller, Los Angeles, Calif. Architect, Arthur B. Benton, designer of the famous Mission Inn, Riverside, Calif. Contractor, R. J. Smith.



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The working tools of the housewife should be easily accessible. How convenient it is to have a place within arm's reach of the stove and sink for the kitchen utensils, etc., used in the preparation of meals. This cabinet takes the place of the always unsightly kitchen shelf, is sanitary, and up off the floor and therefore does not interfere with the daily cleaning.

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Construction This cabinet is made in one size: Width inside 19", height 68", depth 5 1/4". The back is a three-ply panel. It is attached with a hanging moulding that is nailed to cabinet and screwed to wall. For 2-4 doors and narrower, moulding is applied only to the top and bottom of closet.

Specifications It is made of Basswood, one of the lightest of the commercial woods, and on account of its light weight can be hung or attached where desired. Basswood has a fine, tight grain and soft texture, takes paint and enamel perfectly and accepts and retains a smooth finish.

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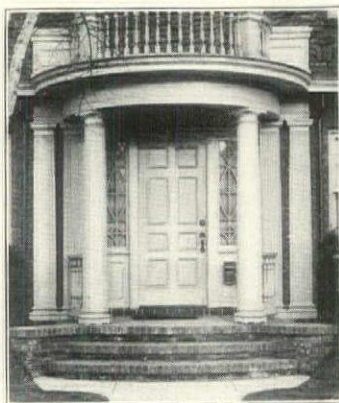
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Douglas Fir is unsurpassed in strength and elastic limit in commercial softwoods.

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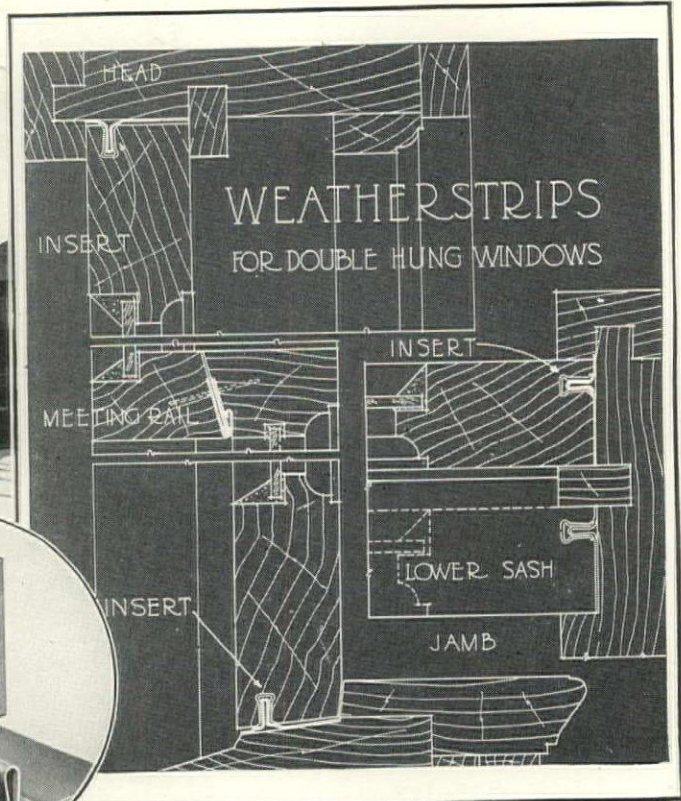
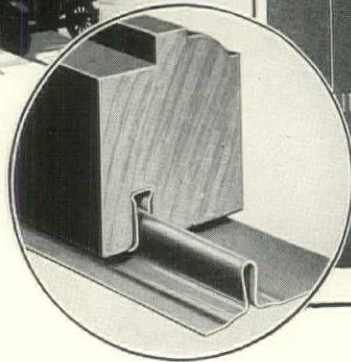
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The Parkstone Apartments, Detroit, Michigan. Higgin All Metal Weatherstrips throughout. Janke, Venman & Krecke, Architects



The blue-print shows a typical Higgin window installation in the Parkstone. Note the Higgin Spring Bronze Insert Strip (patented) which really keeps the weather out by forming an impenetrable metal-to-metal contact.

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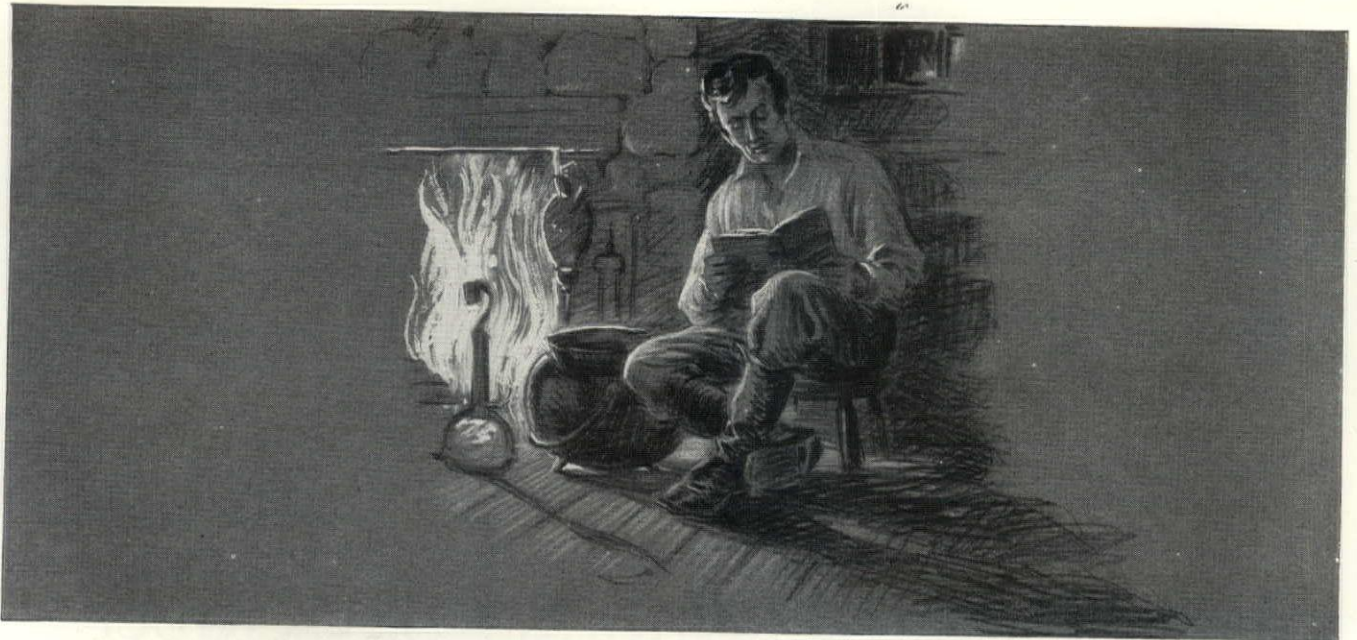
The installation shown above is one of the constantly increasing instances where the principle of the Insert Strip is winning out against all others.

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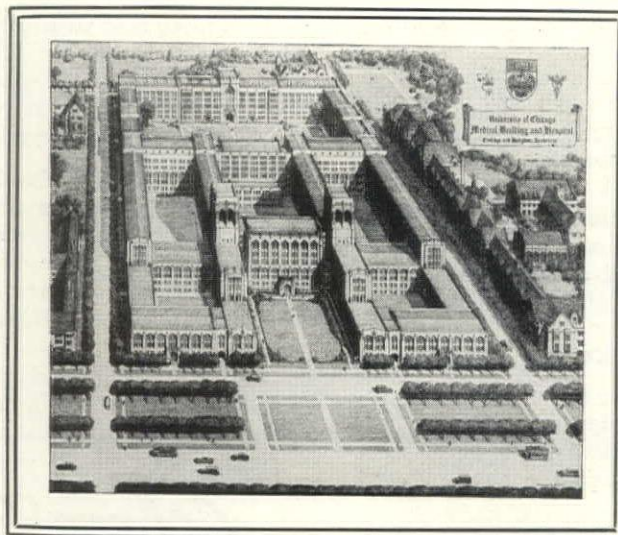
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The Medical College at the University of Chicago, Coolidge & Hodgdon, Architects; Battey & Kipp, Electrical Engineers; L. H. Lamont Co., Electrical Contractors.

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This superheated air must pass up and out above the sash, drawing the old air from the room and automatically providing ventilation.

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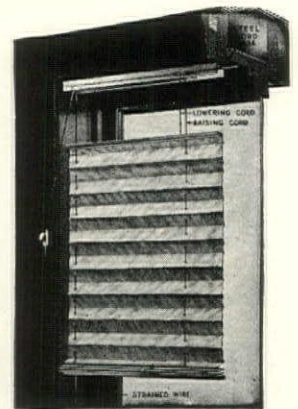
Even on a blazing hot day the rooms whose windows are equipped with Athey Shades have a cool and inviting effect. This effect is so noticeable that

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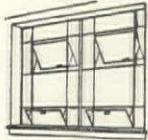
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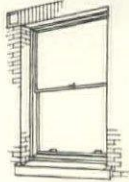
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These windows make balanced ventilation automatic. When the lower sash is opened, the upper sash lowers an equal distance, thus providing an entrance for fresh air and an exit for exhausted air at the same time.

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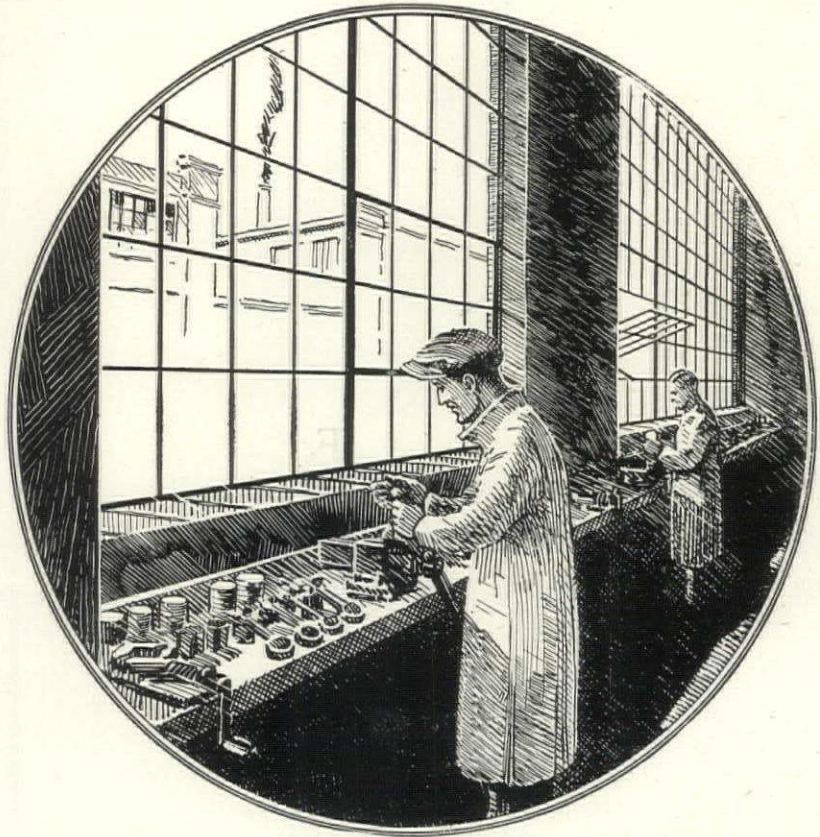
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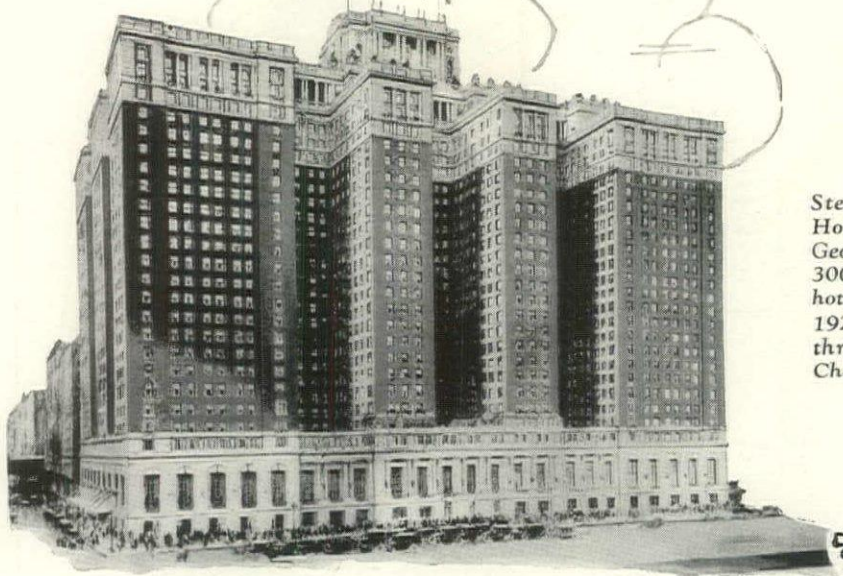
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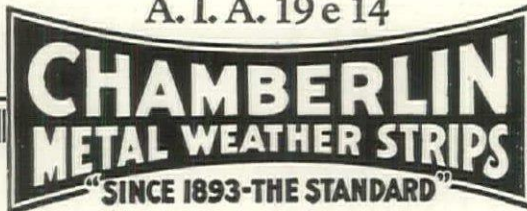
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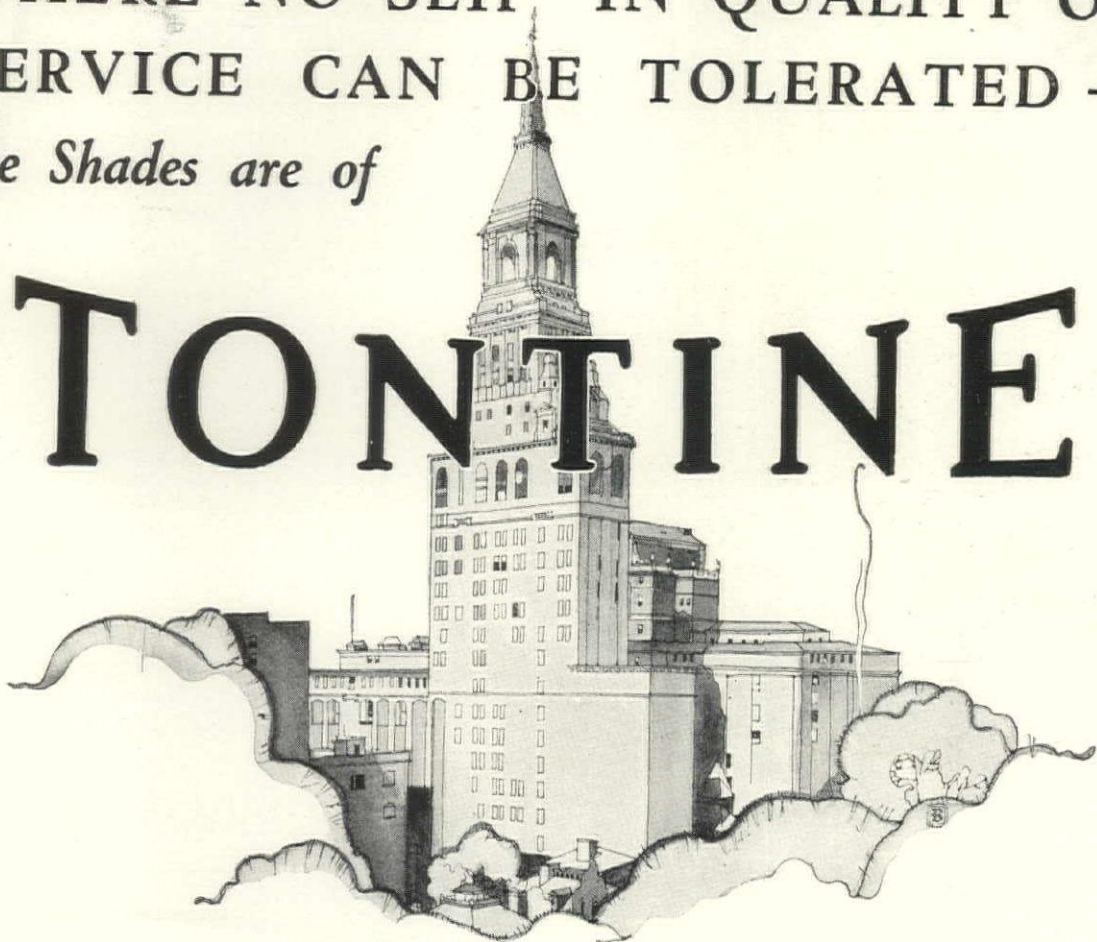
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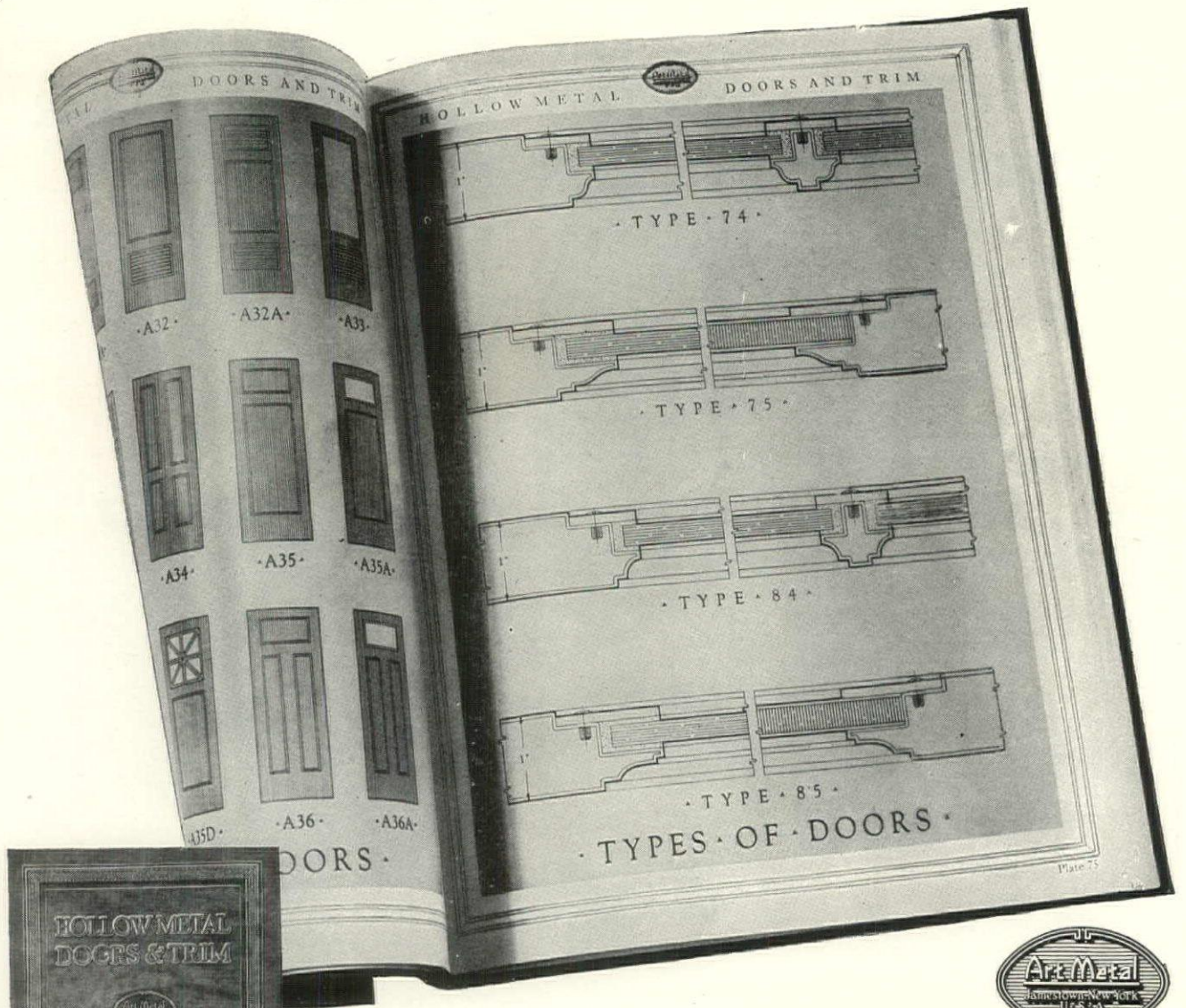
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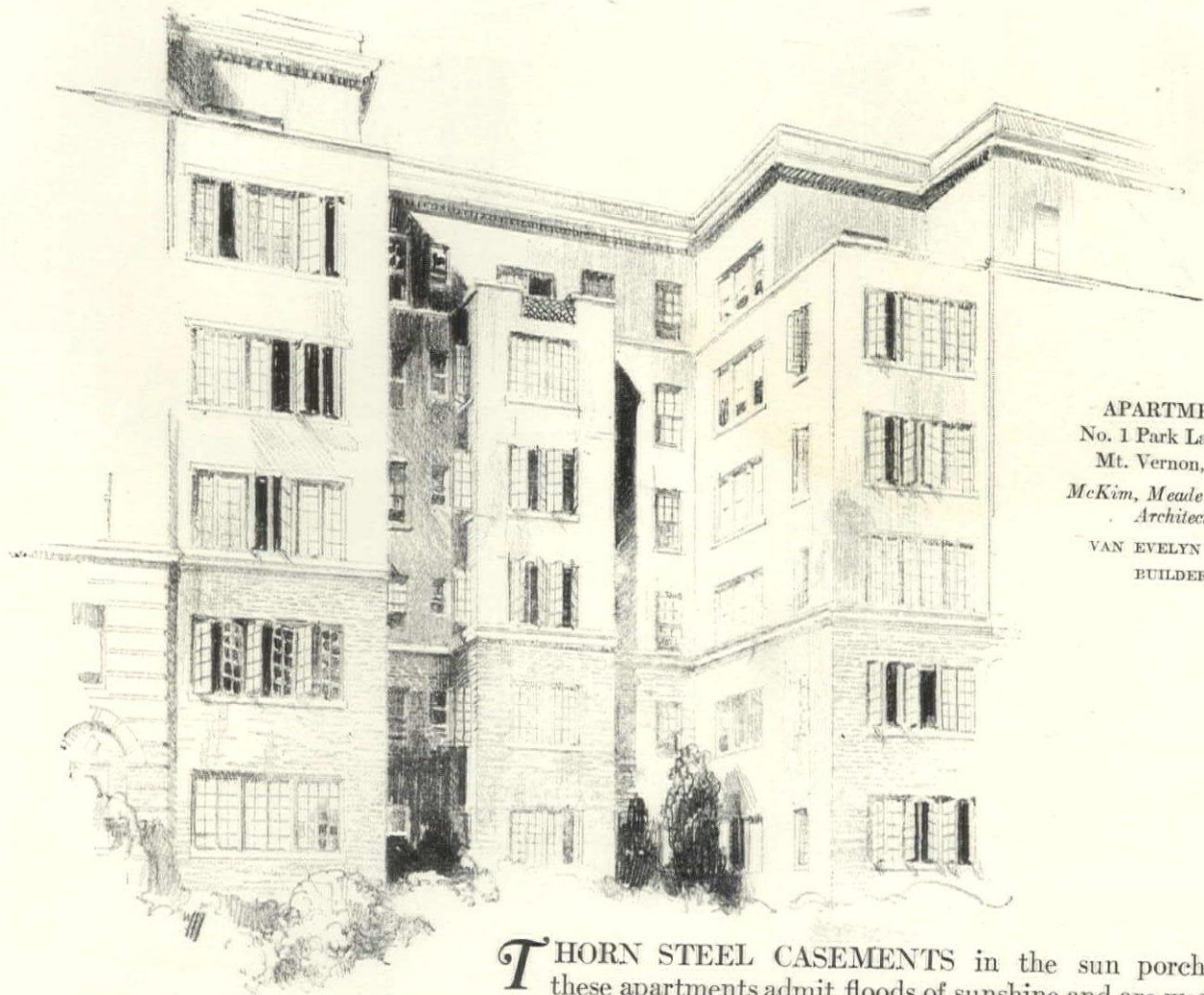
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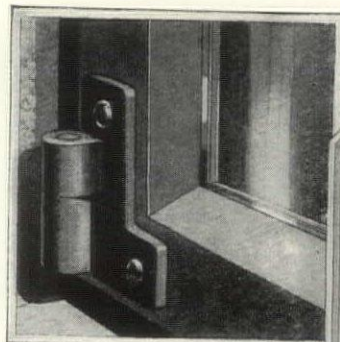
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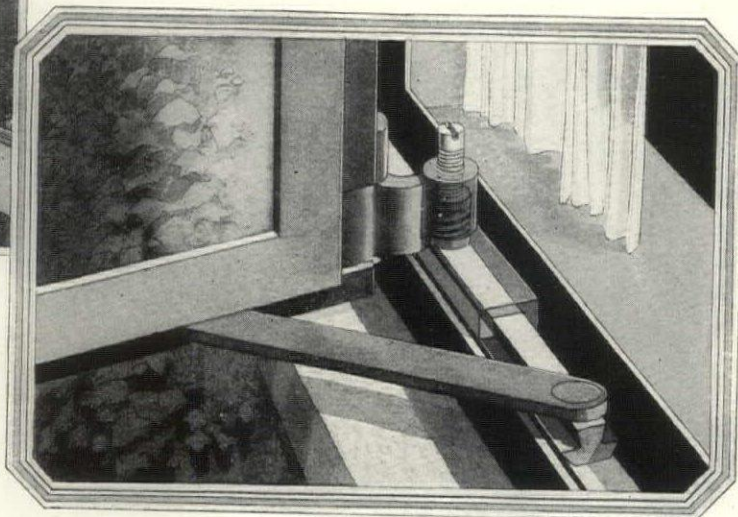


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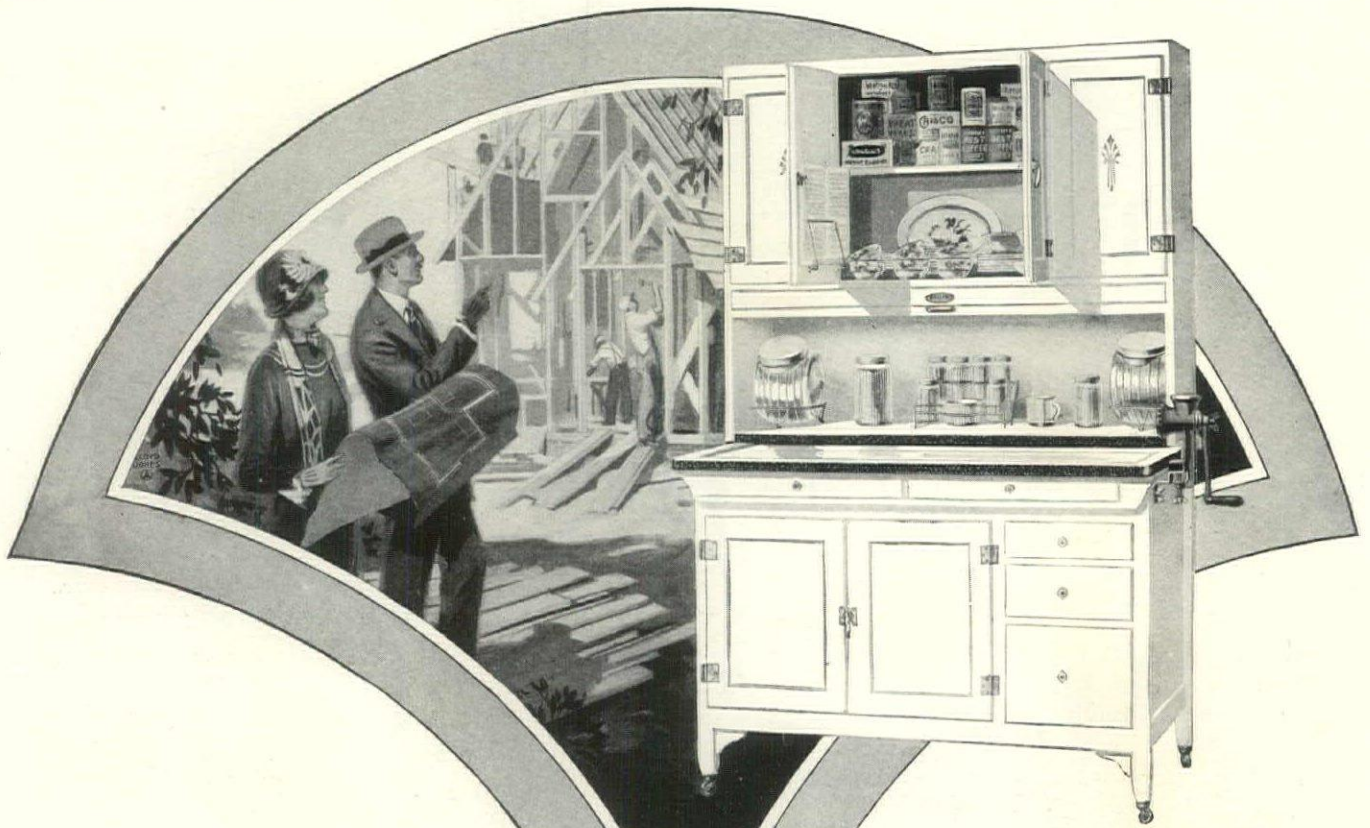
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Windows beautiful and fine enough for your most costly commission, and at a price that makes them suitable for the most modest home. In Crittall Standardized Casements architects can now use the finest window quality obtainable in an altogether new and low priced range of houses.

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Our Catalog showing how easily these windows may be installed, screened and draped, will gladly be sent on request.

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Standardized
Casements

CRITTALL CASEMENT WINDOW COMPANY, *Manufacturers*
10975 HEARN AVENUE, DETROIT, MICHIGAN

OUTSTANDING ACHIEVEMENTS



HERE is only one 277 Park Avenue, in New York, where an entire acre of garden in the heart of the city makes this great apartment structure the most unique of its kind in the world.

There is only one General Motors Building, in Detroit, "conceived in terms of the colossal", and the largest office building anywhere.

And there can be only one Produce District, in Chicago, with its creation making possible the removal of an entire industry from one section of the city to another.

These structures—great of their kind and great by any standard of comparison—are typical of the financing done by S. W. STRAUS & Co. For one, we underwrote a first mortgage bond issue of \$4,500,000; for the second, an issue of \$12,000,000 and for the third, an issue of \$8,000,000.

You will be interested in a recent publication of this House—*The Straus Plan of Financing*—in which are shown the photographs of typical Straus underwritings throughout the United States and in Canada, together with letters from owners, operators, architects and builders which speak for themselves. If you have a financing problem to solve, send for this book today. Address,

LOAN DEPARTMENT

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Established 1882

Investment Bonds

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We are always interested in making loans of \$250,000 upward, either on completed buildings or structures to be built.

44 YEARS WITHOUT LOSS TO ANY INVESTOR

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*, 383 Madison Ave., New York, or the manufacturer direct, in which case kindly mention this publication.

ACOUSTICS

The Celotex Co., Chicago.

Acousti-Celotex. 16 pp., 8½ x 11 in. Illustrated brochure on a valuable material for facing walls and ceilings.
Specifications and Details for application and decoration of Acousti-Celotex, 11 pp., 8½ x 11 in.

John-Manville, Inc., Madison Ave. & 41st St., New York, N. Y.

Architectural Acoustics. Booklet. 6 x 9 in. 24 pp. Illustrated. Treatise on the correction of architectural acoustics in Churches, schools, hospitals, office buildings and other places.

ASH HOISTS—ELECTRIC AND HAND POWER

Gillis & Geoghegan, 544 West Broadway, New York, N. Y.

General Catalog. 8½ x 11 in. 20 pp. Fully illustrated. Contains specifications in two forms (with manufacturers' name and without). Detail ¼ in. scale for each telescopic model and special material-handling section.

The Man-Saving Load Lifter. 5½ x 8½ in. 8 pp. Illustrated. Describes G&G Telescopic and Non-Telescopic Hoists for handling material in factories.

BOILERS—See Heating Equipment

BRICK

Acme Brick Company, Ft. Worth, Texas.

Series No. 1

Architectural designs rendered in Acme Brick. Booklet 11 x 8½ in. Illustrated. A series of 48 photogravures showing architectural designs rendered in Acme brick. Illustrations show the various types of buildings erected in the Southwest in recent years. Sent free to architects applying on their office stationery.

American Face Brick Association, 1751 Peoples Life Bldg., Chicago, Ill.

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

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

Brickwork in Italy. 298 pages size 7½ x 10½ in., an attractive and useful volume on the history and use of brick in Italy from ancient to modern times, profusely illustrated with 69 line drawings, 300 half-tones, and 20 colored plates with a map of modern and XII century Italy. Bound in linen will be sent postpaid upon receipt of \$6.00. Half Morocco, seven dollars.

BUILDING FINANCE

S. W. Straus & Co., 565 Fifth Ave., New York, N. Y.

The Straus Plan of finance is an attractively prepared booklet of 30 pages 6 x 9 in. in size, which summarizes the plan under which S. W. Straus & Co. finance modern office building, apartment house, residential hotel and other types of construction. It is illustrated with sketches of buildings throughout the United States which secure bond issues purchased by S. W. Straus & Co.

BUILDING STONE—See Stone, Building

BUILDING, STANDARD STEEL

Truscon Steel Company, 250 W. Lafayette Blvd., Detroit, Mich.

Truscon Standard Building Catalog. 8½ x 11 in. 48 pp. Contains data and illustrations.

BUILDING, STEEL PRODUCTS FOR

Massillon Steel Joist Co., Canton, Ohio.

Massillon Bar Joists. Pamphlet. 8½ x 11 in. Illustrated. Information descriptive of Massillon Bar Joist Permanent Fireproof Floor and Roof Construction, with cuts of typical installations. See classification "Steel Joists" for other publications intended for the architect designing this construction.

Massillon Metal Lath. Pamphlet. 8½ x 11 in. Illustrated. Includes tabulations and illustrations covering recommendations for the use of various weights and kinds of metal lath and lath accessories.

Massillon Roof Trusses. Pamphlet. 8½ x 11 in. 8 pp. Illustrated. Shows typical installations with 12 sizes of Standardized Curved Chord Steel Roof Trusses for spans of from 40 to 60 feet, together with details, dimensions, and safe loading tables.

Massillon Bank Vault Reinforcing. Pamphlet. 8½ x 11 in. 8 pp. Illustrated. Gives details of typical installations for a line of standardized steel vault reinforcing frames.

Truscon Steel Company, 250 W. Lafayette Blvd., Detroit, Mich.

Truscon Data Book. Catalog. 3½ x 6 in. 128 pp. Illustrated. Contains complete information with illustrations on Truscon reinforcing steel, steel windows, metal lath, standard buildings, concrete inserts, steel joists, pressed steel stamping and chemical products.

CEMENT

Carney Company, The, Mankato, Minn.

What Twelve Men Said About Carney. Booklet. 8½ x 11 in., illustrated. Opinions of well known architects and builders of Carney Cement used for mortar.

Louisville Cement Co., 315 Guthrie St., Louisville, Ky.

BRIXMENT for Perfect Mortar. Self-filing handbook 8½ x 11 inches. 16 pp. Illustrated. Contains complete technical description of BRIXMENT for brick, tile and stone masonry, specifications, data and tests.

CONCRETE COLORINGS

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

Keramic Catalog. Booklet. 8½ x 11 in. 26 pp. A magnificent brochure, illustrated in color, describing a valuable line of specialties for use with concrete floors—colorings, hardeners, waterproofing, etc.

CONDUIT

Johns-Manville, Inc., New York.

Orangeburg Fibre Conduit. Booklet. 8½ x 11 in. 8 pp. Details regarding a valuable form of conduit.

Orangeburg System of Under Floor Duct. Booklet. 8½ x 11 in. 32 pp.

National Metal Molding Co., 1113 Fulton Building, Pittsburgh, Pa.

Bulletin of all National Metal Molding Products. In correspondence folder. 9½ x 11½ in.

Sheraduct. Circular. 5 x 8 in. Illustrated.

Flaxsteel. Circular. 5 x 8 in. Illustrated.

CONSTRUCTION, FIREPROOF

Massillon Steel Joist Co., Canton, Ohio.

Massillon Bar Joists. Pamphlet. 8½ x 11 in. 8 pp. Illustrated. Contains general information, with illustrations, regarding obtaining Permanent Fireproof Floor and Roof Construction by using Massillon Bar Joists. See classification "Steel Joists" for other publications intended for architects designing this construction.

Massillon Metal Lath. Pamphlet. 8½ x 11 in. 8 pp. Illustrated. Contains cuts, illustrations and recommendation for the use of various weights and kinds of metal lath for fireproofing columns, beams and steel joists.

National Fire Proofing Co., 250 Federal St., Pittsburgh, Pa.

Standard Fire Proofing Bulletin 171. 8½ x 11 in. 32 pp. Illustrated.

A treatise on fireproof floor construction.

Northwestern Expanded Metal Co., 1234 Old Colony Building, Chicago, Ill.

Northwestern Expanded Metal Products. Booklet. 8½ x 10½ in. 16 pp. Fully illustrated, and describes different products of this company, such as Kno-burn metal lath, 20th Century Corrugated. Plaster-Sava and Longspan lath channels, etc.

DAMP-PROOFING

Philip Carey Co., Lockland, Cincinnati, Ohio.

Architects' Specifications for Carey Built-Up Roofing. Booklet. 8 x 10½ in. 24 pp. Illustrated. Complete data to aid in specifying the different types of built-up roofing to suit the kind of roof construction to be covered.

Carey Built-Up Roofing for Modern School Buildings. Booklet. 8 x 10½ in. 32 pp. Illustrated. A study of school buildings of a number of different kinds and the roofing materials adapted for each.

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

Waterproofing. 9½ x 11½ in. Folder. Contains folders giving data on excellent waterproofing and dampproofing materials.

Sonneborn Sons, Inc., L., 116 Fifth Ave., New York.

Specification Sheet, 8½ x 11 in. Descriptions and specifications of compounds for dampproofing interior and exterior surfaces.

Toch Brothers, 110 East 42nd Street, New York City.

Specifications for Dampproofing, Waterproofing, Enameling and Technical Paint. Complete and authoritative directions for use of an important line of materials.

DOORS AND TRIM, METAL

The American Brass Company, Waterbury, Conn.

Illustrated pamphlet describing use and adaptability of Extruded Architectural Bronze Shapes for metal window frames, doors, grilles, counter screens, etc.

Art Metal Construction Co., Jamestown, N. Y.

Hollow Metal Doors and Trim. Portfolio containing several brochures and a catalog of 159 pages and plates 8½ x 11¼ in.

The Compound & Pyrono Door Company, St. Joseph, Mich.

Pyrono Handbook for Architects and Contractors. 8½ x 11 in. 16 pp. Contains full information regarding Pyrono Fireproof Veneered Doors and Trim, with complete details and specifications.

Pyrono details in sheet form for tracing.

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

Fire Doors and Hardware, Booklet. 8½ x 11 in. 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.

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 141

DUMBWAITERS

Sedgwick Machine Works, 151 West 15th St., New York.
Catalog and Service Sheets. Standard specifications, plans and prices for various types, etc. $4\frac{1}{4} \times 8\frac{1}{4}$ in. 60 pp. Illustrated.

ELECTRICAL EQUIPMENT

Frank Adam Electric Company, St. Louis, Mo.
Catalog No. 35—1925. Panelboards—Steel Cabinets. $7\frac{3}{4} \times 10\frac{1}{2}$ in. 64 pp. Illustrates and describes sectionally built panelboards, an important line of steel cabinets, and the fittings which go with them.

Frink, Inc., I. P., 24th St. and 10th Ave., New York City.
Catalog 415. $8\frac{1}{2} \times 11$ in. 46 pp. Photographs and scaled cross-sections. Specialized bank lighting, screen and partition reflectors, double and single desk reflectors and Polaralite Signs.

Hart & Hegeman Mfg. Co., The, 342 Capitol Ave., Hartford, Conn.
The Line of Least Resistance. Catalog R. $10\frac{1}{2} \times 7\frac{3}{4}$ in. 152 pp. Illustrated. Complete display of switches, sockets, accessories and wiring devices with brief description.
A new H & H Switch. Leaflet. $3\frac{1}{2} \times 6$ in. 4 pp. Illustrated. Illustrates a new H & H composition base push switch of De Luxe quality.

Hart & Hegeman Mfg. Co., The, 342 Capitol Avenue, Hartford, Conn.
H. & H. Electrical Wiring Devices, Catalog S. $8\frac{1}{2} \times 10$ in., 123 pp. Lists and illustrates details of equipment.

Holtzer-Cabot Electric Company, Armory Street, Boston 19, Mass.
Signalling Systems for Hospitals. Brochure. $8\frac{1}{2} \times 11$ in. 42 pp. Illustrated. Contains complete data covering Nurse's Call, Doctor's Call, "In" and "Out" Fire Alarm, Watchman's Clock and Telephone Systems.

Holtzer-Cabot Electric Co., Boston and Chicago.
Bank signal and alarm systems. Brochure. $8\frac{1}{2} \times 11$ in. 48 pp. Illustrated. An invaluable work on protective and other appliance for banks.

Kohler Co., Kohler, Wis.
Principle and Proof. Booklet. 48 pp. Illustrated. Describes a standard voltage automatic electric power and light plant for isolated homes, for emergency auxiliary or permanent lighting in stores, theaters, churches and schools.

Pick & Company, Albert, 208 West Randolph St., Chicago, Ill.
School Cafeterias. Booklet. 9×6 in. Illustrated. The design and equipment of school cafeterias with photographs of installation and plans for standardized outfits.
Kitchen Equipment. Booklet. 9×6 in. Illustrated. Photographs and descriptions of Hotel, Club and Hospital kitchens with treatise on plans and equipment of efficient kitchens.

Electric Kitchen Equipment. Booklet. $8\frac{1}{2} \times 11\frac{1}{2}$ in. Illustrated. Photographs and descriptions of PIX "Master-Made" ranges, ovens, etc., for Hotels and Restaurants.

Simplex Wire & Cable Co., 201 Devonshire St., Boston, Mass.
Simplex Manual Catalog and Reference Book, $6\frac{1}{4} \times 4\frac{1}{4}$ in. 92 pp. Contains in addition to information regarding Simplex products, tables and data for the ready reference of architects, electrical engineers and contractors.
Specification No. 2053. For Simcore Wires and Cables. Various sizes of Conductor-Rubber Insulation.

Western Electric Co., 195 Broadway, New York, N. Y.
Western Electric Inter-Phones for Apartment Houses. Booklet. $5\frac{1}{4} \times 6\frac{1}{4}$ in. 16 pp. Illustrated. Illustrates and describes use of Inter-Phones in Apartment Houses.
Installing and Maintaining Western Electric Inter-Phones. In addition to giving general information on layout of system, details are supplied on individual Inter-Phone Systems, listing battery and wiring requirements.

ELEVATORS

Otis Elevator Company, 260 Eleventh Ave., New York, N. Y.
Otis Push Button Controlled Elevators. Descriptive leaflets. $8\frac{1}{2} \times 11$ in. Illustrated. Full details of machines, motors and controllers for these types.
Otis Geared and Gearless Traction Elevators of All Types. Descriptive leaflets. $8\frac{1}{2} \times 11$ in. Illustrated. Full details of machines, motors and controllers for these types.
Escalators. Booklet. $8\frac{1}{2} \times 11$ in. 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. $8\frac{1}{2} \times 11$ in. 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, $4\frac{1}{4} \times 8\frac{1}{4}$ in. 70 pp. Illustrated. Descriptive pamphlets on hand power freight elevators, sidewalk elevators, automobile elevators, etc.

ENAMELING

Toch Brothers, 110 East 42nd Street, New York City.
Specifications for Dampproofing, Waterproofing, Enameling and Technical Painting. Complete and authoritative directions for use of an important line of materials.

FIRE DOORS—See Doors, Windows and Trim, Metal

FIREPROOFING—See also Construction, Fireproof

The General Fireproofing Company, Youngstown, Ohio.
Fireproofing Handbook, $8\frac{1}{2} \times 11$ in. 64 pp. Illustrated. Gives methods of construction, specifications, data on Herringbone metal lath, steel tile, Trussit solid partitions, steel lumber, self-centering formless concrete construction.

FLOOR HARDENERS (CHEMICAL)

Sonneborn Sons, Inc., L., 116 Fifth Ave., New York, N. Y.
Lapidolith, the liquid chemical hardener. Complete sets of specifications for every building type in which concrete floors are used, with descriptions and results of tests.

FLOORING

Armstrong Cork & Insulation Co., 132 24th St., Pittsburgh, Pa.
Linotile Floors for Public and Semi-Public Buildings, $7\frac{1}{2} \times 10\frac{1}{2}$ in. 36 pp.

Linotile Floors for Residences. $7\frac{1}{2} \times 10\frac{1}{2}$ in. 32 pp.
Armstrong's Cork Tile. Revised Edition. Booklet. 24 pp. 5×7 in. Illustrated in color. Contains complete specifications.

Armstrong Cork & Insulation Co., Pittsburgh, Pa.
Armstrong's Cork Tile Floors. Booklet, $7\frac{1}{2} \times 10\frac{1}{2}$ in. 30 pp. An illustrated work on cork flooring.

Armstrong Cork Co. (Linoleum Division), Lancaster, Pa.
Armstrong's Linoleum Floors. Catalog. $8\frac{1}{2} \times 11$ in. 36 pp. Color plates. A technical treatise on linoleum, including table of gauges and weights and specifications for installing linoleum floors.

Decorative Linoleum Floors. Portfolio of Color Plates. $11\frac{1}{4} \times 15$ in. 16 pp. Color plates.
Armstrong's Linoleum Pattern Book, 1925. Catalog. $3\frac{1}{2} \times 6$ in. 200 pp. Color Plates. Reproduction in color of all patterns of linoleum and cork carpet in the Armstrong line.

Quality Sample Books. Two books, $3\frac{1}{2} \times 5\frac{1}{4}$ in. Showing all gauges and thicknesses in the Armstrong line of linoleums.

Detailed Directions for Laying and Caring for Linoleum. Handbook, 5×7 in. 48 pp. Instructions for linoleum layers and others interested in learning most satisfactory methods of laying and taking care of linoleum.

Business Floors. Booklet. 6×9 in. 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.

Barber Asphalt Co., Philadelphia.
Specifications for Applying Genasco Asphalt Mastic. Booklet. $8 \times 10\frac{1}{2}$ in. Directions for using Asphalt Mastic for flooring.

Blabon Company, Geo. W., Nicetown, Philadelphia, Pa.
Planning the Color Schemes for Your Home. Brochure illustrated in color; 36 pp., $7\frac{1}{2} \times 10\frac{1}{2}$ in. Gives excellent suggestions for use of color in flooring for houses and apartments.

Handy Quality Sample Folder of Linoleums. Gives actual samples of "Battleship Linoleum," cork carpet, "Feltex," etc.

Blabon's Linoleum. Booklet illustrated in color; 128 pp., $3\frac{1}{2} \times 8\frac{1}{2}$ in. Gives patterns of a large number of linoleums.

Blabon's Plain Linoleum and Cork Carpet. Gives quality samples, 3×6 in. of various types of floor coverings.

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

Battleship Linoleum. Explains the advantages and uses of this durable, economical material.

Marble-ized Cork Composition Tile. Complete information on cork-composition marble-ized tile and the many artistic effects obtainable with it.

Treadlite Tile. Shows a variety of colors and patterns of this adaptable cork composition flooring.

Natural Cork Tile. Description and color plates of this super-quiet, resilient floor.

Practical corking specifications for installing battleship linoleum, cork composition tile and cork tile.

Carter Bloxonend Flooring Co., Keith & Perry Bldg., Kansas City, Mo.
Bloxonend Flooring. Booklet $3\frac{1}{4} \times 6\frac{1}{4}$ in. 20 pp. Illustrated. Describes uses and adaptability of Bloxonend Flooring to concrete, wood or steel construction, and advantages over loose wood blocks.

File Folder, $9\frac{3}{8} \times 8\frac{1}{2}$ in. For use in connection with A. I. A. system of filing. Contains detailed information on Bloxonend Flooring in condensed, loose-leaf form for specification writer and drafting room. Literature embodied in folder includes standard Specification Sheet covering the use of Bloxonend in general industrial service and Supplementary Specification Sheet No. 1, which gives detailed description and explanation of an approved method for installing Bloxonend in gymnasiums, armories, drill rooms and similar locations where maximum resiliency is required.

Duraflex Company, Inc., 11 Pleasant Street, Baltimore, Md.
Why They Used It in One of Boston's Finest Buildings. Typical of Character of One of the 13 Original States.

Illustrated 4-page brochures, $5\frac{1}{4} \times 8\frac{1}{4}$ in., giving data on "Duraflex" floors.

Permanent, Easy Tread Flooring. Folder. 4 pp. $8\frac{1}{2} \times 11$ in. on floor covering material.

Specifications for Sub-Floors for "Duraflex." Folder. 11 pp. $8\frac{1}{2} \times 11$ in. on base for laying "Duraflex."

Test of Floorings. Folder. 2 pp. Report of Flooring Committee of American Hospital Association.

Muller Co., Franklyn R., Waukegan, Ill.
Asbestone Composition Flooring. Circular. $8\frac{1}{2} \times 11$ in. Descriptions and Specifications.

Norton Company, Worcester, Mass.
Filing Folder. $8\frac{1}{2} \times 11\frac{3}{4}$ in. 27 pp. Illustrated with drawings. Specification data for architects.

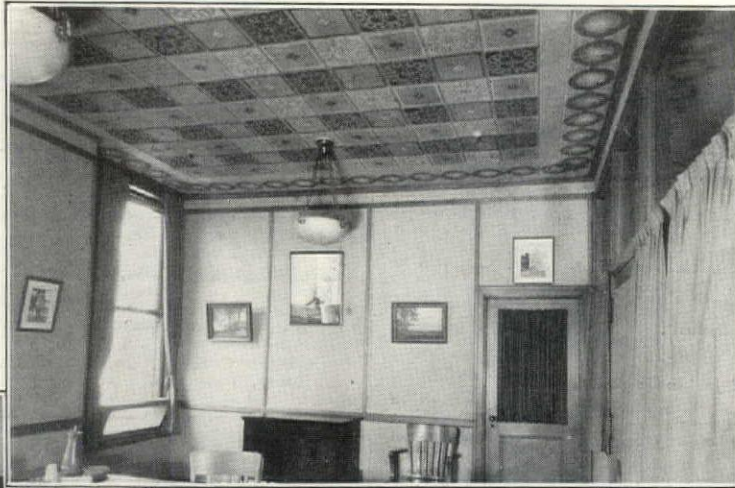
Ritter Lumber Co., W. M., Columbus, Ohio.
Ritter Oak Flooring, brochure 5×7 in. 31 pp. Illustrated. Excellent data on floors of different kinds and of various woods.

Beauty Begins in the Forest.
Large illustrated folder on modern flooring.

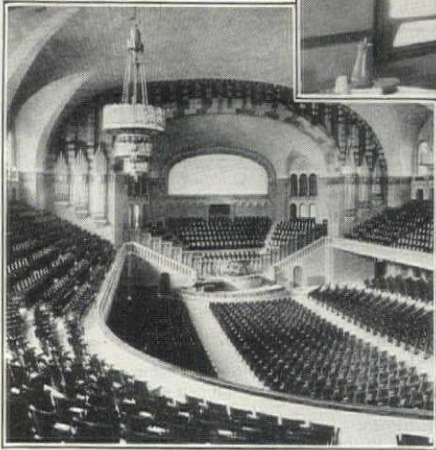
U. S. Gypsum Co., Chicago.
Pyrobar Floor Tile. Folder. $8\frac{1}{2} \times 11$ in. Illustrated. Data on building floors of hollow tile, and tables on floor loading.

U. S. Rubber Co., 1790 Broadway, New York.
Period Adaptations for Modern Floors. Brochure. 8×11 in. 60 pp. Richly illustrated. A valuable work on the use of rubber tile for flooring in interiors of different historic styles.

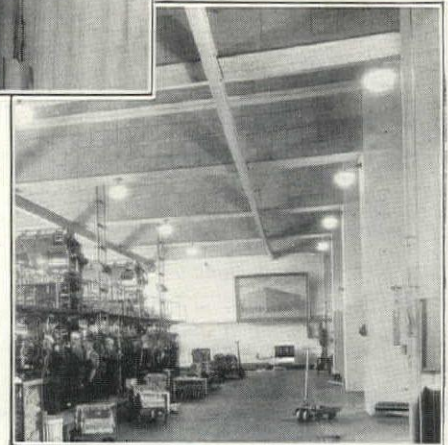
Moody Bible Institute Auditorium, Chicago. Fugard & Knapp, Ltd., architects. Acousti-Celotex used for acoustical correction and interior finish.



Press room, Milwaukee Journal, Milwaukee, Wisconsin. Frank D. Chase, Inc., architects. Acousti-Celotex used on ceiling to quiet noise.



Office of Mr. Marquette Healy, President Lyon & Healy, Chicago. Acousti-Celotex used for sound quieting and interior finish. Note the beautiful decorative effect secured on the ceiling.



Now

a decorative sound-absorbing material

Architects are securing quiet, plus beauty, at moderate cost, with this unique acoustical material

EXCESSIVE noise is being recognized more than ever today as both a menace to health and a cause of needless industrial waste.

Hence, architects realize the advantages of an effective sound-absorbing material—not only for auditoriums, but for school rooms, offices and industrial buildings.

And they have found in Acousti-Celotex a material that serves both as a sound quieter and a beautiful wall and ceiling finish.

Acousti-Celotex is a highly efficient sound-absorber made in tile form from cane fibre. It has a pleasing soft texture surface, light tan in color and can be decorated in full color effects without materially reducing its un-

usual sound-absorbing qualities. No membrane or other covering is required.

Other advantages

Acousti-Celotex is permanent. The complete, rigid units become an integral part of the building, requiring only an occasional cleaning with a stiff brush or broom. Installation is efficiently made at reasonable cost by our approved Acousti-Celotex Contractors.

This material has been widely specified by leading architects in all sections of the country.

We have prepared a beautifully illustrated book in full color, showing some interesting installations and giving some idea of the beautiful decorative effects obtainable with Acousti-Celotex. May we send you a copy?

THE CELOTEX COMPANY, CHICAGO, ILL. Mills: New Orleans, Louisiana
 Branch Sales Offices in many principal cities (See telephone books for addresses)
 Canadian Representatives: Alexander Murray & Co., Limited; Montreal, Toronto, Halifax, Winnipeg, Vancouver

ACOUSTI-CELOTEX
 A PRODUCT OF THE CELOTEX COMPANY

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 142

FOLDING PARTITIONS

- Irving Hamlin**, Evanston, Ill.
The Evanston Sound-Proof Door. Brochure. $8\frac{1}{2}$ x 11 in. 8 pp. Full data on Hamlinized Folding Partitions and Evanston Sound-Proof Doors.
- Wilson Corporation**, J. G., 11 East 38th Street, New York, N. Y.
Sectionfold and Rolling Partitions and Hygienic School Wardrobes. Catalog No. 37. Booklet $8\frac{1}{2}$ x 11 in. 40 pp. Illustrated. Describes the uses of rolling and sectional partitions, particularly in schools and churches. Also the installation of Wilson school wardrobes.

FURNACES—See Heating Equipment.

FURNITURE

- American Seating Co.**, 14 E. Jackson Blvd., Chicago, Ill.
Ars Ecclesiastica Booklet. 6 x 9 in. 48 pp. Illustrations of church fitments in carved wood.
Theater Chairs. Booklet. 6 x 9 in. 48 pp. Illustrations of theater chairs.
- Kensington Mfg. Company**, Showrooms, 41 West 45th St., New York. Illustrated booklet indicative of the scope, character and decorative quality of Kensington Furniture, with plan of co-operation with architects, sent on request.
Photographs and full description of hand-made furniture in all the period styles, furnished in response to a specific inquiry.
- White Door Bed Company**, The, 130 North Wells Street, Chicago, Ill.
Booklet. $8\frac{1}{2}$ x 11 in. 20 pp. Illustrated. Describes and illustrates the use of "White" Door Bed and other space-saving devices.

GARDEN ACCESSORIES

- Davey Tree Expert Company**, The, 907 Elm St., Kent, Ohio.
When Your Trees Need The Tree Surgeon. Booklet. 16 pp. 8 x $9\frac{1}{4}$ in. Illustrated. Lists and explains a number of serious tree troubles of common occurrence; contrasts the scientific methods used by properly trained and conscientious men to remedy these troubles with the work of unscrupulous or untrained men.

GLASS CONSTRUCTION

- Mississippi Wire Glass**, 220 Fifth Avenue, New York.
Mississippi Wire Glass. Catalog. $3\frac{3}{4}$ x $8\frac{1}{2}$ in. 32 pp. Illustrated. Covers the complete line.

GRANITE—See Stone, Building

GRILLES

- Wickwire Spencer Steel Co., Inc.**, 41 East 42nd St., New York.
Clinton Grilles. Booklet. 9 x 11 in. 12 pp. A brochure on metal grilles, particularly for use over heating radiators.

HARDWARE

- Cutler Mail Chute Company**, Rochester, N. Y.
Cutler Mail Chute Model F. Booklet. 4 x $9\frac{1}{4}$ in. 8 pp. Illustrated.
- McKinney Mfg. Co.**, Pittsburgh, Pa.
McKinney Complete Garage Hardware Sets. Catalog. $6\frac{1}{4}$ x 10 in. 20 pp. Illustrated. Describes full line of complete garage hardware sets for all kinds of entrances, with views of typical entrances and sketches.
- McKinney Hinges and Butts**. General Catalog. $6\frac{1}{4}$ x 10 in. Illustrates and describes complete line of McKinney wrought builders' hardware products, including hinges, butts, door hangers and track, latches, garage hardware and specialties.
- Richards-Wilcox Mfg. Co.**, Aurora, Ill.
Distinctive Garage Door Hardware. Booklet. $8\frac{1}{2}$ x 11 in. 65 pp. Illustrated. Complete information accompanied by data and illustrations on different kinds of garage door hardware.
- Sargent & Company**, New Haven, Conn.
Details to Which Standard Hardware Can Be Applied. Booklet. 6 pp. 9 x 12 in. Illustrated. Treats with diagrams, portions of doors and windows to which hardware can be applied.
Sargent Locks and Hardware. Bound volume, 534 pp., 9 x 12 in., illustrated. Complete catalog of Sargent line of hardware.

HEATING EQUIPMENT

- American Radiator Company**, The, 40 West 40th St., N. Y. C.
Ideal Type "A" Heat Machine. Catalog $7\frac{3}{4}$ x $10\frac{1}{2}$ in. 32 pp. Illustrated in 4 colors. A brochure of high-efficiency heating apparatus for residences and commercial buildings.
Ideal Water Tube Boilers. Catalog $7\frac{3}{4}$ x $10\frac{1}{2}$ in. 32 pp. Illustrated in 4 colors. Data on a complete line of Heating Boilers of the Water Tube type.
Ideal Smokeless Boilers. Catalog $7\frac{3}{4}$ x $10\frac{1}{2}$ in. 32 pp. Illustrated in 4 colors. Fully explains a boiler free from the objection of causing smoke.
Ideal Boilers for Oil Burning. Catalog $5\frac{1}{2}$ x $8\frac{1}{2}$ in. 36 pp. Illustrated in 4 colors. Describing a line of Heating Boilers especially adapted to use with Oil Burners.
Corto—The Radiator Classic. Brochure $5\frac{1}{2}$ x $8\frac{1}{2}$ in. 16 pp. Illustrated. A brochure on a space-saving radiator of beauty and high efficiency.
Ideal Arcola Radiator Warmth. Brochure $6\frac{1}{4}$ x $9\frac{1}{4}$ in. Illustrated. Describes a central all-on-one-floor heating plant with radiators for small residences, stores, and offices.
- James B. Clow & Sons**, 534 S. Franklin St., Chicago, Ill.
Gasteam. Catalog. 6 x 9 in. 16 pp. Illustrated. New radiator using gas for fuel.

HEATING EQUIPMENT—Continued

- C. A. Dunham Company**, 450 East Ohio Street, Chicago, Ill.
Dunham Radiator Trap. Bulletin 101. 8 x 11 in. 12 pp. Illustrated. Explains working of this detail of heating apparatus.
Dunham Packless Radiator Valves. Bulletin 104. 8 x 11 in. 8 pp. Illustrated. A valuable brochure on valves.
Dunham Return Heating System. Bulletin 109. 8 x 11 in. Illustrated. Covers the use of heating apparatus of this kind.
Dunham Vacuum Heating System. Bulletin 110. 8 x 11 in. 12 pp. Illustrated.
- Excelso Specialty Works**, 119 Clinton St., Buffalo, N. Y.
Excelso Water Heater. Booklet. 12 pp. 3 x 6 in. Illustrated. Describing the new Excelso method of generating domestic hot water in connection with heating boilers. (Firepot Coil eliminated.)
- The Fulton Company**, Knoxville, Tenn.
Sylphon, Temperature Regulators. Bulletin T-103. $8\frac{1}{2}$ x 11 in. 16 pp. Complete data on Sylphon temperature regulators for air and liquids. Catalog 100, complete line Sylphon Heating Specialties.
Damper Regulators. Air and Vent Valves. Catalog No. 100. $3\frac{3}{4}$ x $6\frac{1}{4}$ in. Sylphon Damper Regulators for steam, hot water and vapor systems. Sylphon Air and Vent Valves.
- Illinois Engineering Co.**, Racine Ave., at 21st St., Chicago, Ill.
Vapor Heat Bulletin 21. $8\frac{1}{2}$ x 11 in. 32 pp. Illustrated. Contains new and original data on Vapor Heating. Rules for computing radiation, pipe sizes, radiator tappings. Steam table showing temperature of steam and vapor at various pressures, also description of Illinois Vapor Specialties.
- International Heater Company**, Utica, N. Y.
International Economy Blue Front Warm Air Furnace. Brochure, 23 pp., $7\frac{1}{2}$ x $10\frac{1}{2}$ in. A valuable publication dealing with an important type of heating.
International Carton Self Cleaning Warm Air Furnaces. Booklet, 31 pp., $7\frac{1}{2}$ x $10\frac{1}{2}$ in. Illustrated. Complete data on warm air heating.
International Economy Boilers. Booklet, 36 pp., $7\frac{1}{2}$ x $19\frac{1}{2}$ in. Deals with the vital matter of boilers.
International Economy Smokeless Boilers. Brochure, 40 pp., $7\frac{1}{2}$ x $10\frac{1}{2}$ in. Illustrated. Discusses an important type of smokeless boiler.
International Hot Water Supply Boilers. Booklet, 8 pp., $7\frac{1}{2}$ x $10\frac{1}{2}$ in. Data regarding boilers for supplying hot water.
- Johnson Service Company**, 149 Michigan St., Milwaukee, Wis.
Regulation of Temperature and Humidity. Booklet. $11\frac{1}{4}$ x $8\frac{1}{2}$ in. 64 pp. Illustrated. Describes Johnson system of pneumatic automatic regulation of temperature and humidity, and illustrates thermostats, valves, air compressors, dampers and other parts.
Johnson Electric Thermostats, Valves and Controllers. Booklet. $6\frac{1}{4}$ x $3\frac{1}{2}$ in. 24 pp. Illustrated. Excellent plates showing electric thermostats and controllers.
- Kelsey Heating Company**, James St., Syracuse, N. Y.
Booklet No. 5, 4 x 9 in. 32 pp. Illustrated. A dealers' booklet showing the Kelsey Warm Air Generator Method of warming and distributing air. Gives dimensions, heating capacities, weights, kind of coal recommended and shows the mechanical and gravity systems of heating homes, churches and schools.
Monroe Pipeless Booklet, $4\frac{1}{2}$ x 8 in. 20 pp. Illustrated.
Monroe Tubular Heater. Booklet, $4\frac{1}{2}$ x 8 in. 20 pp. Illustrated.
General Booklet giving capacities, dimensions, weights, etc. Syracuse Pipeless Booklet. $4\frac{1}{2}$ x 8 in. 12 pp. Illustrated. General Booklet giving sizes and capacities.
- Kewanee Boiler Co.**, Kewanee, Ill.
Kewanee on the Job. Catalog. $8\frac{1}{2}$ x 11 in. 80 pp. Illustrated. Showing installations of Kewanee boilers, water heaters, radiators, etc.
Catalog No. 78, 6 x 9 in. Illustrated. Describes Kewanee Fire-box Boilers with specifications and setting plans.
Catalog No. 79, 6 x 9 in. Illustrated. Describes Kewanee power boilers and smokeless tubular boilers with specifications.
- Mueller Co.**, Decatur, Ill.
Catalog G, 8 x 11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in-measurements for built-in bath equipment.
- Nash Engineering Company**, South Norwalk, Conn.
No. 37. Devoted to Jennings Hytor Return Line Vacuum Heating Pumps, electrically driven, and supplied in standard sizes up to 300,000 square feet equivalent direct radiation.
No. 16. Dealing with Jennings Hytor Air Line Heating Pumps.
No. 17. Describing Jennings Hytor Condensation Pumps, sizes up to 70,000 square feet equivalent direct radiation.
No. 25. Illustrating Jennings Return Line Vacuum Heating Pumps. Size M, for equivalent direct radiation up to 5,000 square feet.
- National Radiator Company**, Johnstown, Pa.
Aero Radiators; Beauty and Worth. Catalog 34. Booklet 6 x 9 in., 20 pp., describing and illustrating radiators and accessories.
- Peerless Unit Ventilation Company, Inc.**, Long Island City, N. Y.
Peerless Industrial Heating Unit. Folder 6 x 9 in. Deals specifically with heating industrial structures.
Peer Vent Heating and Ventilating Unit. Brochure, 6 x $6\frac{1}{2}$ in. Illustrated. Valuable data on apparatus for ventilating and heating buildings of different types.
- Trane Co., The**, La Crosse, Wis.
Bulletin 14. 16 pp. $8\frac{1}{2}$ x $10\frac{1}{2}$ in. Cover the complete line of Trane Heating Specialties, including Trane Bellows Traps, and Trane Bellows Packless Valves.
Bulletin 20. 24 pp. $8\frac{1}{2}$ x $10\frac{1}{2}$ in. Explains in detail the operation and construction of Trane Condensation. Vacuum, Booster, Circulating, and similar pumps.

Standard Equipment on all these Boilers

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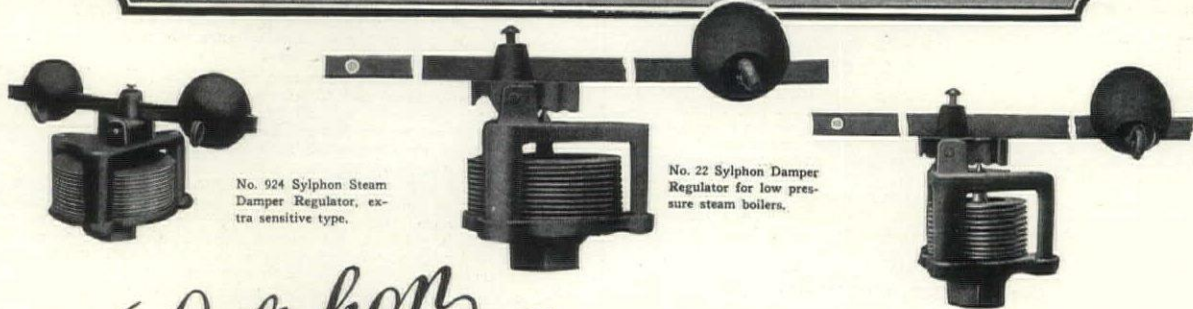
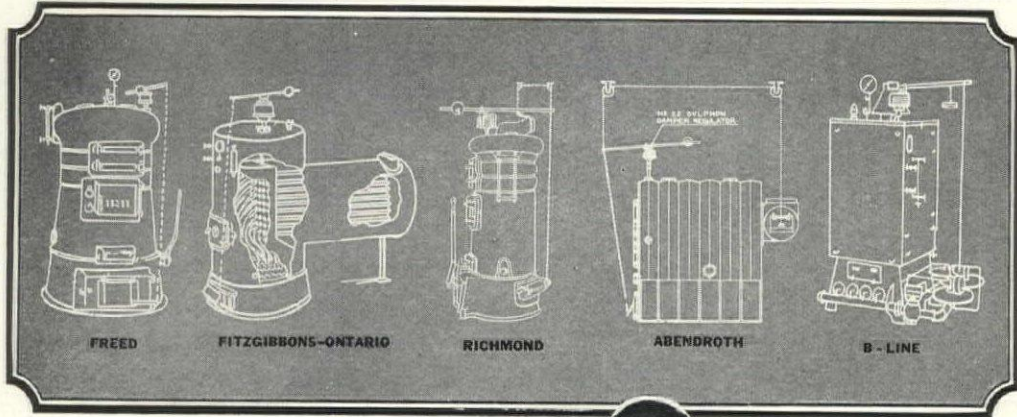
Coatesville
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National
Oil City

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Economy
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Sylphon
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Steam Damper Regulators

There is no "lag" in Sylphon Damper Regulators. The sensitive, flexible Sylphon Bellows used as diaphragm gives quick and positive response to changes in steam pressure. This means that it unflinchingly checks or opens the draft dampers the instant the pressure in the boiler gets too high or too low, thereby preventing overheating or underheating.

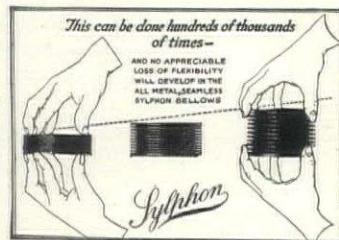
Anyone of the 34 leading boilers listed above comes

to you with a Sylphon Regulator attached as standard equipment; or you may specify it on any make of steam boiler.

When you insist on genuine Sylphon Damper Regulators for every boiler you specify, you guarantee uniform heating with low fuel consumption and completely automatic damper control for the life of the boiler. Refuse imitations.

Ask for Bulletin FDR-5

Every genuine Sylphon Bellows is drawn and formed seamless from a flat sheet of specially prepared metal, with folds or corrugations formed to provide the greatest strength and flexibility.



Breakdown, so common with the ordinary type of thermostat is eliminated, for neither years of constant use nor the powerful action of steam weaken the Sylphon Bellows.

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SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 144

HEATING EQUIPMENT—Continued

Utica Heater Company, Utica, N. Y.
Imperial Round and Square Boilers and Supplies. Catalog. 3½ x 6½ in. Gives complete data on small heaters.
Special Folders: 8½ x 11 in. "Warmth and Comfort," describing the scientifically correct NEW IDEA pipeless furnaces. "SUPERIOR Warm Air Pipe Furnaces," a standard line of heating equipment for over forty years. "SUPER-SMOKELESS Pipe and Pipeless Furnaces," a new and remarkably efficient warm air heater, burning cheap soft coal without smoke—utilizing the principle of the Bunsen Burner.
Utica Imperial SUPER-SMOKELESS Boiler. Catalog. 8½ x 11 in. Consists of the following seven bulletins, either loose or bound together: (1) School Heating Bulletin. (2) Public Building Bulletin. (3) Theater Heating Bulletin. (4) Churches and Religious Institutions. (5) Residences, Apartments and Hotels. (6) Offices, Industrial Buildings and Garages. (7) Technical Bulletin describing patented Bunsen Burner design and construction of the SUPER-SMOKELESS BOILER, which burns the cheapest grades of soft coal smokelessly and operates equally well with hard coal, coke or fuel oil.

HEAT REGULATORS—See Heating Equipment

HOISTS—See Ash Hoists

HOLLOW TILE—See Tile, Hollow

HOSPITAL EQUIPMENT

The International Nickel Company, 67 Wall St., New York, N. Y.
Hospital Applications of Monel Metal. Booklet. 8½ x 11½ in. 16 pp. Illustrated. Gives types of equipment in which Monel Metal is used, reasons for its adoption, with sources of such equipment.
The Kny-Scheerer Corporation of America, 119 Seyenth Ave., New York.
Hospital Equipment, 16th Edition. 7¼ x 10½ in. 232 pp. Illustrated. Complete description of Hospital and Surgical Furniture, Hospital Appliances including Operating Tables, Cabinets, Sterilizers for Water, Dressing and Instruments, also Hydrotherapeutic Apparatus.
Surgical Sundries. Second Edition. Booklet. 7¾ x 10½ in. 48 pp. Illustrated. A complete line of glassware, enamelware, rubber goods, restraint apparatus, instrument sterilizers, sputum cups, wheel chairs and sick room comforts.
Electro Medical. 25th Edition. Booklet. 7¼ x 10½ in. 160 pp. Illustrated. A complete line of Albee Bone Sets. Apparatus for AC and DC Cystoscopes, Heat Magnets, Vibrators, Compressors, Electric Light Baths, High Frequency Apparatus and X-Ray Apparatus and Accessories.

INCINERATORS

Goder Incinerator Corporation, 323 North Michigan Ave., Chicago, Illinois.
"Goder Incinerators" Booklet. 8½ x 11 in. 16 pp. Illustrated. Describes the Goder Principle of Waste Disposal, illustrates the various designs and models, shows photos of actual installations.
"Goder Chimney Fed Incinerators." Booklet 8 pp. 8½ x 11 in. Illustrated. Describes chimney fed types of incinerator. Shows various designs and photos of installations. Gives specifications, also showing construction plans and details.
"The Garbage Hog." Folder 8½ x 11 in. 4 pp. Describes their portable Incinerator, with diagrams.
Kerner Incinerator Company, 715 E. Water St., Milwaukee, Wis.
Incinerators (Chimney-fed) Catalog No. 15 (Architect and Builders' Edition). Size 8½ x 11 in., 16 pp. Illustrated. Describes principle and design of Kernerator Chimney-fed Incinerators for residences, apartments, hospitals, schools, apartment hotels, clubs and other buildings. Shows all standard models and gives general information and working data.
Sanitary Elimination of Household Waste, booklet, 4 x 9 in., 16 pp., Illustrated. Gives complete information on the Kernerator for residences.
Garbage and Waste Disposal for Apartment Buildings, folder, 8½ x 11 in., 8 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 in., 12 pp. Illustrated. Shows how this necessary part of hospital service is taken care of with the Kernerator. Gives list of hospitals where installed.

INSULATING LUMBER

Mason Fibre Co., 111 West Washington St., Chicago, Ill.
Booklet, 12 pp., 8½ x 11 in. Illustrated. Gives complete specifications for use of insulating lumber and details of construction involving its use.

INSULATION

Armstrong Cork & Insulation Co., Pittsburgh, Pa.
Corkboard Insulation. Brochure. 6¼ x 9¼ in. Illustrated. Fully discusses properties of corkboard and its uses in insulation of cold storage rooms, refrigerators, residences, apartment houses.
The Insulation of Roofs with Armstrong's Corkboard. Booklet. Illustrated. 7½ x 10½ in. 32 pp. Discusses means of insulating roofs of manufacturing or commercial structures.
Insulation of Roofs to Prevent Condensation. Illustrated booklet. 7½ x 10½ in. 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 in. 32 pp. Illustrated.
Cabot, Inc., Samuel, Boston, Mass.
Cabot's Insulating Quilt. Booklet, 7½ x 10½ ins., 24 pp., Illustrated. Deals with a valuable type of insulation.

INSULATION—Continued

Johns-Manville, Inc., New York.
Johns-Manville Service to Industry. Bound Volume. 260 pp. 8 x 11 in. Deals with Asbestos Roofings, Heat and Electrical Insulations. Waterproofing, and Industrial Flooring.
A Representation Installation of the Johns-Manville Underground System of Insulation. Booklet. 20 pp., 8½ x 11 in.
Philip Carey Co., The, Cincinnati, Ohio.
Carey Asbestos and Magnesia Products. Catalog. 6 x 9 in. 72 pp. Illustrated.
Celotex Company, The, 645 N. Michigan Ave., Chicago, Ill.
The Hidden Comfort of Costly Homes. Booklet 8½ x 11 in. Celotex Specifications. Booklet 8½ x 11 in.
Johns-Manville, Inc., Madison Ave. and 41st St., New York, N. Y.
Johns-Manville Service to Power Users. Catalog. 8½ x 11 in. 150 pp. Illustrated. Contains valuable data on all forms of insulation, packages, steam traps, high temperature cements, brake locks and linings, also general technical data.
United States Mineral Wool Co., 280 Madison Ave, New York.
The Uses of Mineral Wool in Architecture. Booklet 4¼ x 6¾ in. 24 pp. Illustrated. Describes properties of mineral wool as insulation against heat, frost, sound. Specifications and section drawing for use as a fireproofing. Rules for estimate and cost.

KITCHEN EQUIPMENT

Standard Gas Equipment Corporation, 18-20 East 41st Street, New York, N. Y.
VULCAN Gas Ranges and Appliances. Booklet. 5 x 8 in. 50 pp. Illustrated. Describes complete line, including VULCAN SMOOTH TOP Compact Cabinet Gas Ranges for kitchens in the home.
VULCAN Gas Equipment for Hotels, Hospitals, Restaurants, etc. Booklet, 5 x 8 in. 45 pp. Illustrated. Equipment for heavy duty cooking requirements, with information of value to architects in planning kitchens.
The International Nickel Company, 67 Wall St., New York, N. Y.
Hotels, Restaurants and Cafeteria Applications of Monel Metal. Booklet. 8½ x 11 in. 32 pp. Illustrated. Gives types of equipment in which Monel Metal is used, with service data and sources of equipment.
Mueller Co., Decatur, Ill.
Catalog G, 8 x 11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in-measurements for built-in bath equipment.
Pick & Company, Albert, 208 W. Randolph St., Chicago, Ill.
School Cafeteria. Portfolio. 17 x 11 in. 44 pp. Illustrated. An exhaustive study of the problems of school feeding, with copious illustrations and blue prints. Very valuable to the architect.
School Cafeterias. Booklet. 9 x 6 in. Illustrated. The design and equipment of school cafeterias with photographs of installation and plans for standardized outfits.
Kitchen Equipment. Booklet. 9 x 6 in. Illustrated. Photographs and descriptions of Hotel, Club and Hospital kitchens with treatise on plans and equipment of efficient kitchens.
Electric Kitchen Equipment. Booklet. 8½ x 11½ in. Illustrated. Photographs and descriptions of PIX "Master-Made" ranges, ovens, etc., for Hotels and Restaurants.
Hotel, Apartment Building, Club and Institution Installations. Portfolio. 17 x 11 in. 100 pp. Shows, mostly by plates, how the Albert Pick Company equips hotels completely from top to bottom.
Equipment for Cafeterias, Lunch Rooms, Restaurants, and Dining Rooms. Portfolio. 17 x 11 in. 86 pp. Illustrated. The last word in Cafeteria equipment to meet all requirements.

LABORATORY EQUIPMENT

Alberene Stone Co., 153 West 23rd Street, New York City
Booklet 8¾ x 11¼ in., 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, 8½ x 11 ins., 20 pp. Full details regarding a valuable form of piping.
Kewaunee Manufacturing Company, 141 Lincoln St., Kewaunee, Wis.
Kewaunee Book of Laboratory Furniture. Catalog. 7 x 10 in. 408 pp. Illustrated. Science and Vocational Laboratory Furniture for schools, colleges, technical institutes, hospitals, etc., including floor plans, illustrations of buildings and equipped laboratories, illustrations of equipment engineering data for mechanical ventilation and illustrations of special plumbing fixtures for laboratory use. A supplement is also issued for this work.

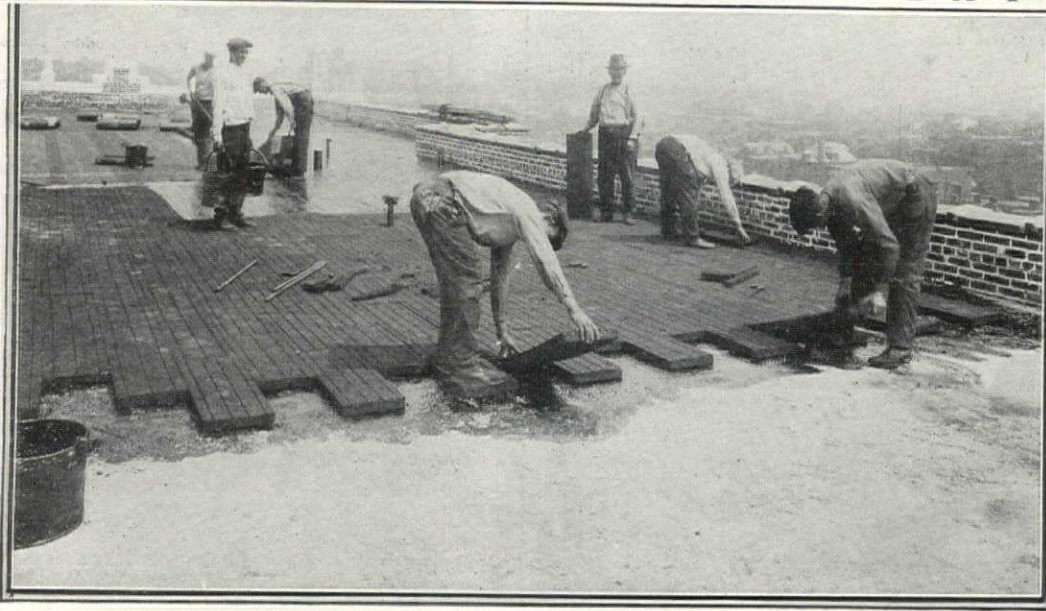
LANTERNS

Todhunter, Arthur, 414 Madison Ave., New York.
Hand Wrought Lanterns. Booklet. 5¼ x 6¼ in. 20 pp. Illustrated in Black and White. With price list. Lanterns appropriate for exterior and interior use, designed from old models and meeting the requirements of modern lighting.

LATH, METAL AND REINFORCING

The General Fireproofing Company, Youngstown, Ohio
Herringbone Metal Lath Handbook. 8½ x 11 in. 32 pp. Illustrated. Standard specifications for Cement Stucco on Herringbone.
Rigid Metal Lath and interior plastering.

EVERY ROOF NEEDS INSULATION



Laying two-inch Armstrong's Corkboard Insulation on the roof of the Dickman Building, St. Louis, Mo. Wiedemeyer & Nelson, Architects. Swift Roofing Company, Roofing Contractors.

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IT is a very simple matter to make a roof practically impervious to heat. And very desirable, too, for such a roof keeps a building cooler in summer, and in winter makes it easier to heat with less fuel.

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In hundreds of buildings of all kinds—commercial, industrial, public, office, residential—the benefits of Armstrong's Corkboard insulated roofs are being demonstrated so effectively that their owners would never again even consider a building with an uninsulated roof. The increased comfort and economy resulting from insulation with Armstrong's Corkboard constitute an investment return which neither owner nor architect can afford to ignore.

Full information and detailed specifications are contained in the 36-page book, "The Insulation of Roofs with Armstrong's Corkboard." Copy and sample will be sent on request.



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Armstrong's Corkboard Insulation

for the Roofs of All Kinds of Buildings

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 146

LATH, METAL AND REINFORCING—Continued

- Massillon Steel Joist Co.**, Canton, Ohio.
Massillon Metal Lath. Pamphlet. 8½ x 11 in., 8 pp., illustrated. Covers entire line of Diamond Flat Mesh Lath, ¾-in. and ¾-in. Rib Lath,—complete line of 16-gauge channels, box channels, pencil channels, base and corner beads, tie wire and hanger wire.
- Milwaukee Corrugating Co.**, Milwaukee, Wis.
The Milcor Manual. Booklet 8½ x 11 in. 64 pp. Illustrated. Covers Milcor methods and materials, metal lath, corner beads, steel domes, channels, etc.
- Northwestern Expanded Metal Co.**, 1234 Old Colony Building, Chicago, Ill.
Northwestern Expanded Metal Products. Booklet. 8½ x 10½ in. 16 pp. Fully illustrated, and describes different products of this company, such as Kno-burn metal lath, 20th Century Corrugated. Plaster-Sava and Longspan lath channels, etc.
- Wickwire Spencer Steel Co., Inc.**, 41 East 42nd St., New York.
Clinton Wire Lath. Brochure. 9 x 11 in. 51 pp. A valuable booklet on metal lathing and the proper method of using it.

LAUNDRY CHUTES

- The Pfaudler Company**, 217 Cutler Building, Rochester, N. Y.
Pfaudler Glass-Lined Steel Laundry Chutes. Booklet. 5½ x 7½ in. 16 pp. Illustrated. A beautifully printed brochure describing in detail with architects' specifications THE PFAUDLER GLASS LINED STEEL LAUNDRY CHUTES. Contains views of installations and list of representative examples.

LIGHTING EQUIPMENT

- Curtis Lighting, Inc.**, Chicago, Ill.
Catalog 393. 8 x 10 in. 34 pp. Illustrated. Describes and illustrates X-Ray reflectors for show cases and windows, and lighting fixtures for interior illumination of stores.
- Curtis Lighting, Inc.**, 1119 West Jackson Boulevard, Chicago, Ill.
Lighting Specifications.—A. I. A. File 31 F. Looseleaf. 8½ x 11 in. Architectural detail plates on church, restaurant and home lighting. Complete details, illustrations and helpful ideas on direct and indirect illumination. Sent free to any registered architect who requests them on his own letterhead.
- Guth Company, The Edwin F.**, 2615 Washington Ave., St. Louis, Mo.
Guth Lighting Equipment (Catalog No. 15). Booklet, 8½ x 11 in. Fully illustrated, and covering lighting fixtures for buildings of all kinds.
- Forge Craft** (Catalog No. 16). Booklet, 16 pp., 8½ x 10½ in. Brochure dealing specifically with fixtures intended for use in buildings of the so-called "bungalow" type.
- Pittsburgh Reflector Co.**, Pittsburgh, Pa.
Cove Lighting. Booklet. 8½ x 11 in. 24 pp. Gives complete data on lighting of this type.
- Show Window Lighting. Booklet. 8½ x 11 in. 28 pp. A most useful work on lighting these important areas.

MAIL CHUTES

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

MANTELS

- Arthur Todhunter**, 414 Madison Avenue, New York, N. Y.
Georgian Mantels. New Booklet. 24 pp. 5¼ x 6¼ in. A fully illustrated brochure on eighteenth century mantels. Folders give prices of mantels and illustrations and prices of fireplace equipment.

MARBLE

- The Georgia Marble Company**, Tate, Ga. New York Office, 1328 Broadway.
Why Georgia Marble is Better. Booklet. 3¾ x 6 in. Gives analysis, physical qualities, comparison of absorption with granite, opinions of authorities, etc.
- Convincing Proof. 3¾ x 6 in. 8 pp. Classified list of buildings and memorials in which Georgia Marble has been used, with names of Architects and Sculptors.

METAL LATH—See Lath, Metal and Reinforcing

METALS

- American Sheet & Tin Plate Co.**, Frick Building, Pittsburgh, Pa.
Reference Book. Pocket Ed. 2½ x 4½ in. 168 pp. Illustrated. Covers the complete line of Sheet and Tin Mill Products. Apollo and Apollo-Keystone Galvanized Sheets. Catalog. 8½ x 11 in. 20 pp. Illustrated.
- Research on the Corrosion Resistance of Copper Steel. Booklet. 8½ x 11 in. 24 pp. Illustrated. Technical information on results of atmospheric corrosion tests of various sheets under actual weather conditions.
- The International Nickel Company**, 67 Wall St., New York, N. Y.
The Choice of a Metal. Booklet. 6¼ x 3 in. 166 pp. Illustrated. Monel Metal—its qualities, use and commercial forms, briefly described.

METAL TRIM—See Doors and Trim, Metal

MILL WORK—See also Wood

- Curtis Companies Service Bureau**, Clinton, Iowa.
Architectural Interior and Exterior Woodwork. Standardized. Book. 9 x 11½ in. 240 pp. Illustrated. This is an Architects' Edition of the complete catalog of Curtis Woodwork, as designed by Trowbridge & Ackerman. Contains many color plates.
- Better Built Homes. Vols. XV-XVIII incl. Booklet. 9 x 12 in. 40 pp. Illustrated. Designs for houses of five to eight rooms, respectively, in several authentic types, by Trowbridge & Ackerman, architects for the Curtis Companies.
- Curtis Details. Booklet. 19½ x 23½ in. 20 pp. Illustrated. Complete details of all items of Curtis woodwork, for the use of architects.

MILL WORK—Continued

- Roddis Lumber & Veneer Company**, Marshfield, Wis.
Roddis Doorman. Booklet. 10¼ x 7¼ in. 12 pp. Illustrated. Describes and illustrates the use of Roddis Doors for residences, clubs, hotels, etc.
- Hartmann-Sanders Company**, 2155 Elston Ave., Chicago, Ill.
Column Catalog. 7½ x 10 in. 48 pp. Illustrated. Contains prices on columns 6 to 36 in. diameter, various designs and illustrations of columns and installations.
- The Pergola Catalog. 7½ x 10 in. 64 pp. Illustrated. Contains illustrations of pergola lattices, garden furniture in wood and cement, garden accessories.

MORTAR COLORS

- Clinton Metallic Paint Co.**, Clinton, N. Y.
Clinton Mortar Colors. Folder. 8½ x 11 in. 4 pp. Illustrated in color, gives full information concerning Clinton Mortar Colors with specific instructions for using them.
- Color Card. 6½ x 3¼ in. Illustrates in color the ten shades in which Clinton Mortar Colors are manufactured.
- Something new in Stucco. Folder. 3½ x 6 in. An interesting folder on the use of coloring matter for stucco-coated walls.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES

- Cabot, Inc., Samuel**, Boston, Mass.
Cabot's Creosote Stains. Booklet. 4 x 8½ in. 16 pp. Illustrated.
- The Glidden Company**, Cleveland, Ohio.
More Daylight. 8 x 10½ in. 20 pp. Portraying by illustrations and text the need and methods of modern mill painting.
- Glidden Specification Book. 8 x 10½ in. 12 pp. Complete architectural specifications for Glidden Paints and Varnishes, including Ripolin. Directions for the proper finishing of wood, metal plaster, concrete, brick and other surfaces.
- Martin Varnish Co.**, 2500 Quarry St., Chicago, Ill.
Architectural Specifications. Booklet. 8½ x 11 in. 20 pp. Illustrated. Complete guide for Architects in specifying Martin Varnish Products.
- Your Floors. Booklet. 5 x 7 in. 20 pp. Illustrated. Explains fully how to finish all kinds of floors and woodwork with Martin's Pure Varnish.
- A. C. Horn Company**, Long Island City, N. Y.
Keramic Catalog. Booklet. 26 pp., 8½ x 11 in. A magnificent brochure illustrated in color, describing a valuable line of specialties for use with concrete floors—colorings, hardeners, waterproofing, etc.
- National Lead Company**, 111 Broadway, New York, N. Y.
Handy Book on Painting. Book. 5½ x 3¼ in. 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 in. 16 pp. Illustrated. Directions and formulae for painting metals.
- Came Lead. Booklet. 8¼ x 6 in. 12 pp. Illustrated. Describes various styles of lead comes.
- Cinch Anchoring Specialties. Booklet. 6 x 3½ in. 20 pp. Illustrated. Describes complete line of expansion bolts.
- Pratt & Lambert, Inc.**, Buffalo, N. Y.
Specification Manual for Paint, Varnishing and Enameling. Booklet, 38 pp., 7½ x 10½ in. Complete specifications for painting, varnishing and enameling interior and exterior wood, plaster, and metal work.
- The Ripolin Company**, Cleveland, Ohio.
Ripolin Specifications. Book. 8 x 10½ in. 12 pp. Complete specifications and general instructions for the application of Ripolin, the original Holland enamel paint. Also directions for proper finishing of wood, metal, plaster, concrete, brick and other surfaces.
- Why Ripolin Has an International Reputation. 8 x 10½ in. 24 pp. Designed for the architect's files to illustrate the many varied uses of Ripolin Enamel Paint in all parts of the world. Profusely illustrated.
- Ruberoid Co., The** (formerly the Standard Paint Co.), 95 Madison Avenue, New York, N. Y.
Preservative Coating. Booklet. 6 x 9 in. 15 pp. Illustrated. Presents in a concise manner the properties and uses of the Ruberoid Company's various paint preparations.
- Sherwin-Williams Company**, 601 Canal Rd., Cleveland, Ohio.
Painting Concrete and Stucco Surfaces. Bulletin No. 1. 8½ x 11 in. 8 pp. Illustrated. A complete treatise with complete specifications on the subject of Painting of Concrete and Stucco Surfaces. Color chips of paint shown in bulletin.
- Enamel Finish for Interior and Exterior Surfaces. Bulletin No. 2. 8½ x 11 in. 12 pp. Illustrated. Thorough discussion, including complete specifications for securing the most satisfactory enamel finish on interior and exterior walls and trim.
- Painting and Decorating of Interior Walls. Bulletin No. 3. 8½ x 11 in. 20 pp. Illustrated. An excellent reference book on Flat Wall Finish, including texture effects, which are taking the country by storm. Every architect should have one on file.
- Protective Paints for Metal Surfaces. Bulletin No. 4. 8½ x 11 in. 12 pp. Illustrated. A highly technical subject treated in a simple, understandable manner.
- Someborn Sons, Inc., L.**, Dept. 4, 116 Fifth Avenue, New York.
Paint Specifications. Booklet. 8½ x 10¼ in. 4 pp.

PANELING—See Millwork

PARTITIONS

- Circle A Products Corporations**, New Castle, Ind.
Circle A Partitions Sectional and Movable. Brochure. Illustrated. 8½ x 11¼ in. 32 pp. Full data regarding an important line of partitions, along with Erection Instructions for partitions of three different types.



Bloomington High School
Bloomington, Illinois
Architect:
A. L. Pillsbury
Plumber:
Ross Johnson



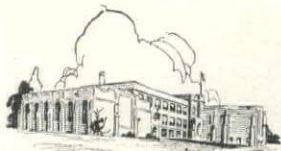
Phil Sheridan School
Chicago, Ill.
Architect:
John A. Christiansen
Plumber:
Murphy Plumbing Company



Gregory School
Chicago, Ill.
Architect:
John A. Christiansen
Plumber:
Murphy Plumbing Company



Austin, Minnesota High School
Architect:
G. L. Lockhart
Plumber:
J. P. Adamson & Company



Dubuque, Iowa, Junior High School
Number 1
Architect:
Rayer, Danelly & Smith
Plumber:
Dooley & Bruininga



Wentworth School
Chicago, Ill.
Architect:
John A. Christiansen
Plumber:
Henry J. Becker

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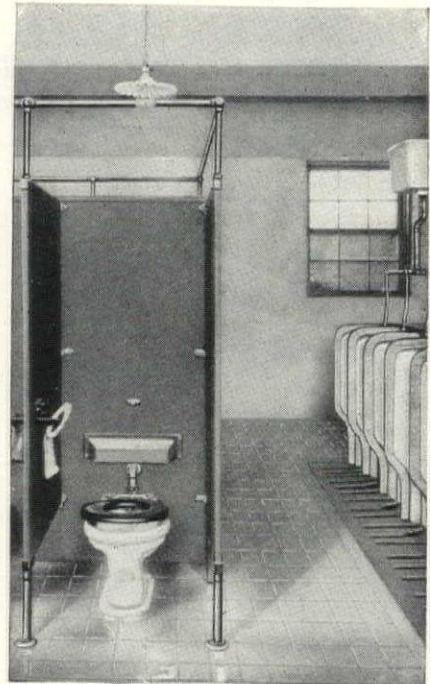
HERE plumbing is subjected to the hard usage that it receives in public schools, its quality is measured in terms of upkeep and replacement costs.

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SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 148

PARTITIONS—Continued

- Hauserman Company, E. F.,** Cleveland, Ohio.
Hollow Steel Standard Partitions. Various folders, 8½ x 11. Illustrated. Give full data on different types of steel partitions, together with details, elevations and specifications.
- Improved Office Partition Company,** 25 Grand St., Elmhurst, I. I.
Telesco Partition. Catalog. 8½ x 11 in. 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 in. Illustrated. Complete instructions, with cuts and drawings, showing how easily Telesco Partition can be erected.
- Richards-Wilcox Mfg. Co.,** Aurora, Ill.
Partitions. Booklet. 7 x 10 in. 32 pp. Illustrated. Describes complete line of track and hangers for all styles of sliding, parallel, accordion and flush door partitions.
- Sanymetal Products Co.,** Cleveland, Ohio.
Sanymetal Partitions for Toilet Rooms. Booklet. 7¼ x 11 in. 24 pp. Illustrated. Complete data on a valuable line of toilet room partitions.
Sanymetal Products. Brochure. 8½ x 11 in. 40 pp. Illustrated. Describes metal partitions, wainscots, roller hinges and toilet room hardware.
- U. S. Gypsum Co.,** Chicago.
Pyrobar Partition and Furring Tile. Booklet. 8½ x 11 in. 24 pp. Illustrated. Describes use and advantages of hollow tile for inner partitions.

PIPE

- American Brass Company,** Waterbury, Conn.
Bulletin B-1. Brass Pipe for Water Service. 8½ x 11 in. 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.
- Clow & Sons, James B.,** 534 S. Franklin St., Chicago, Ill.
Catalog "A". 4 x 6½ in. 700 pp. Illustrated. Shows a full line of steam, gas and water works supplies.
- Copper & Brass Research Association,** 25 Broadway, New York City.
Brass Pipe Plumbing for Your House. Booklet 7 x 10½ in., 16 pp. Useful work on the value of brass piping.
- Duriron Company,** Dayton, Ohio.
Acid-proof Exhaust Fans. Folder, 8 x 10½ ins., 8 pp. Data regarding fans for ventilation of laboratory fume hoods. Specifications form for acid-proof exhaust fans, 8 x 10½ ins.
- National Tube Co.,** Frick Building, Pittsburgh, Pa.
"National" Bulletin No. 2. Corrosion of Hot Water Pipe. (8½ x 11 in. 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 in. 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 in. 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 in.), profusely illustrated with halftone and line engravings of the important operations in the manufacture of pipe.

PLUMBING EQUIPMENT

- Clow & Sons, James B.,** 534 S. Franklin Street, Chicago, Ill.
Catalog "M." 9¼ x 12 in. 184 pp. Illustrated. Shows complete line of plumbing fixtures for Schools, Railroads and Industrial Plants.
- Crane Company,** 836 S. Michigan Avenue, Chicago, Ill.
Plumbing Suggestions for Home Builders. Catalog. 3 x 6 in. 80 pp. Illustrated.
Plumbing Suggestions for Industrial Plants. Catalog. 4 x 6½ in. 43 pp. Illustrated.
Planning the Small Bathroom. Booklet. 5 x 8 in. Discusses planning bathrooms of small dimensions.
- Douglas Co., The John,** Cincinnati, Ohio.
Catalog "C." 10½ x 8 in. 200 pp. Illustrated. Illustrates and describes the Douglas complete line of China Sanitary plumbing fixture.
Booklet. Douglas Suggests for Your Home. 6 x 3½ in. 39 pp. Illustrated.
- Duriron Company,** Dayton, Ohio.
Duriron Acid, Alkali and Rust-proof Drain Pipe and Fittings. Booklet, 8½ x 11 ins., 20 pp. Full details regarding a valuable form of piping.
- Eljer Company,** Fort City, Pa.
Complete Catalog. 3¼ x 6¼ in. 104 pp. Illustrated. Describes fully the complete Eljer line of standardized vitreous china plumbing fixtures, with diagrams, weights and measurements. Standardized Sixteen Circular. 3¼ x 6¼ in. 18 pp. Illustrated.
- Kohler Co.,** Kohler, Wis.
Catalog F. 7½ x 10½ in. 216 pp. Illustrates and describes the complete line of Kohler trade-marked plumbing ware.
Roughing-In Measurement Binder. 5 x 8 in., containing loose leaf sheets on all staple fixtures.

PLUMBING EQUIPMENT—Continued

- Maddock's Sons Company, Thomas,** Trenton, N. J.
Catalog K. 10½ x 7½ in. 242 pp. Illustrated. Complete data on vitreous china plumbing fixtures with brief history of Sanitary Pottery.
- Mueller Co.,** Decatur, Ill.
Catalog G. 8 x 11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in measurements for built-in bath equipment.
- Speakman Company,** Wilmington, Del.
Speakman Showers and Fixtures. Catalog. 4½ x 7½ in. 250 pp. Illustrated. Catalog of Modern Showers and Brass Plumbing Fixtures, with drawings showing layouts, measurements, etc. Toned Up in Ten Minutes. Booklet. 7½ x 10½ in. 16 pp. Illustrated. Modern Showers and Washups for Industrial Plants, showing the sanitary method of washing in running water.

PUMPS

- Chicago Pump Company,** 2300 Wolfram Street, Chicago, Ill.
The Correct Pump to Use. Portfolio containing handy data. Individual bulletins, 8½ x 11 in., on bilge, sewage, condensation, circulating, house, boiler feed and fire pumps.
- Kewanee Private Utilities Co.,** 442 Franklin St., Kewanee, Ill.
Bulletin E. 7¼ x 10¼ in. 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.

RAMP

- Ramp Buildings Corporation,** 21 East 40th Street, New York.
Building Garages for Profitable Operation. Booklet. 8½ x 11 in. 16 pp. Illustrated. Discusses the need for modern mid-city parking garages, and describes the d'Humy Motoramp system of design, on the basis of its superior space economy and features of operating convenience. Gives cost analyses of garages of different sizes, and calculates probable earnings.
Garage Design Data. Series of informal bulletins issued in loose-leaf form, with monthly supplements.
- The Trane Co.,** LaCrosse, Wis.
Trane Small Centrifugal Pumps. Booklet. 3¼ x 8 in., 16 pp. Complete data on an important type of pump.
- The Hockenbury System Incorporated,** Harrisburg, Pa., for years specializing in the financing of modern community hotels, of which they have financed a hundred such throughout the United States, has expanded its service to include the financing of MOTORAMP garage buildings. They now have available for distribution an 8½ x 11 booklet entitled: "The Hitching Post Problem Is Here Again," in which they explain their solution of the street motor parking problem, which will be sent free to inquiring architects.

REINFORCED CONCRETE—See also Construction, Concrete

- The General Fireproofing Company,** Youngstown, Ohio.
Self-Sentering Handbook. 8½ x 11 in. 36 pp. Illustrated. Methods and specifications on reinforced concrete floors, roofs and floors with a combined form and reinforced material.
- Truscon Steel Company,** 250 W. Lafayette Blvd., Detroit, Mich.
Shearing Stresses in Reinforced Concrete Beams. Booklet. 8½ x 11 in. 12 pp.
- North Western Expanded Metal Company,** Chicago, Ill.
Designing Data. Book. 6 x 9 in. 96 pp. Illustrated. Covers the use of Econo Expanded Metal for various types of reinforced concrete construction.

ROOFS (INSULATED)

- Holorib, Inc.,** 2735 Prospect Ave., Cleveland, Ohio.
Holorib Insulated Roofs. Booklet, 16 pp., 8½ x 11 in.. Gives complete data regarding a valuable line of insulated roofing materials.

ROOFING

- American Sheet & Tin Plate Co.,** Frick Bldg., Pittsburgh, Pa.
Better Buildings. Catalog. 8½ x 11 in. 32 pp. Describes Corrugated and Formed Sheet Steel Roofing and Siding Products, black, painted and galvanized, with directions for application of various patterns of Sheet Steel Roofing in various types of construction.
Copper—Its Effect Upon Steel for Roofing Tin. Catalog. 8½ x 11 in. 28 pp. Illustrated. Describes the merits of high-grade roofing tin plates and the advantages of the copper-steel alloy. The Testimony of a Decade. Booklet. 8½ x 11 in. 16 pp., with Graphic Chart and illustrations showing losses to various Iron and Steel Sheets for roofing, from atmosphere corrosion.
- Barber Asphalt Co.,** Philadelphia, Pa.
Specifications, Genasco Standard Trinidad Lake Asphalt Built-up Roofing. Booklet. 8 x 10½ in. Gives specifications for use of several valuable roofing and waterproofing materials.
- Philip Carey Co.,** Lockland, Cincinnati, Ohio.
Architects Specifications for Carey Built-up Roofing. Booklet. 8 x 10¼ in. 24 pp. Illustrated. Complete data to aid in specifying the different types of built-up roofing to suit the kind of roof construction to be covered.
Carey Built-up Roofing for Modern School Buildings. Booklet. 8 x 10¼ in. 32 pp. Illustrated. A study of school buildings of a number of different kinds and the roofing materials adapted for each.

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Chicago, Ill.

*Contractor—HENRY ERICSSON
CO., Chicago, Ill.

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 150

ROOFING—Continued

- Copper & Brass Research Association**, 25 Broadway, New York City
Copper Roofing. Brochure $8\frac{1}{2} \times 11$ in., 28 pp. Third edition of a well-written manual on roofing.
- Copper Flashings. Brochure $8\frac{1}{2} \times 11$ in. 66 pp. Illustrated second edition of a valuable treatise on an important subject.
- Federal Cement Tile Co.**, 608 So. Dearborn St., Chicago, Ill.
The Indestructible Roof. Booklet. 10×13 in. 32 pp. Illustrated. Illustrates and describes the installation of permanent concrete interlocking tile, tile with glass insets, flat tile and channel tile, on all types of industrial plants and other buildings with flat and pitched surfaces.
- Standards. Booklet. $8\frac{1}{2} \times 11$ in. 40 pp. Illustrated with full-page drawings. Gives full details of all forms of roof construction of steel structure, ridge and gutter construction, purlin arrangement, spacing, etc., for standard roofs.
- Johns-Manville, Inc.**, Madison Ave. & 41st St., New York, N. Y.
Johns-Manville Building Materials. Book. $8\frac{1}{2} \times 11$ in. 100 pp. Illustrated. A comprehensive catalog of various types of roofing for all forms of construction. Details of wall, floor and ceiling insulation; asbestos wood for fireproof construction; waterproofing, etc.
- Johns-Manville Asbestos Shingles. Booklet. $8\frac{1}{2} \times 11$ in. 24 pp. Illustrated. This booklet is profusely illustrated in colors, showing some very artistic blends of asbestos shingles with various types of architecture. Contains many valuable suggestions for the architect.
- Ludowici-Celadon Company**, 104 So. Michigan Ave., Chicago, Ill.
"Ancient" Tapered Mission Tiles. Leaflet. $8\frac{1}{2} \times 11$ in. 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.
- Milwaukee Corrugating Co.**, Milwaukee, Wis.
The Milcor Architectural Sheet Metal Guide. Booklet. $8\frac{1}{2} \times 11$ in. 64 pp. Illustrated. Gives valuable technical sheet metal data.
- Ruberoid Co., The** (formerly the Standard Paint Co.), 95 Madison Avenue, New York, N. Y.
Instructions for Laying Built-up Roofs. Booklet. $8\frac{1}{2} \times 11$ in. Illustrated.
- Ruberoid Strip Shingle. Booklet. $3\frac{1}{2} \times 6\frac{1}{4}$ in. 16 pp. Illustrated in color.
- U. S. Gypsum Co.**, Chicago.
Pyrobar Roof Construction. Booklet. 8×11 in. 48 pp. Illustrated. Gives valuable data on the use of tile in roof construction.
- Sheetrock Pyrofill Roof Construction. Folder. $8\frac{1}{2} \times 11$ in. Illustrated. Covers use of roof surfacing which is poured in place.

SASH CHAIN

- Smith & Egge Mfg. Co., The**, Bridgeport, Conn.
Chain Catalog. $6 \times 8\frac{1}{2}$ in. 24 pp. Illustrated. Covers complete line of chains.

SASH CORD

- Samson Cordage Works**, Boston, Mass.
Catalog. $3\frac{1}{2} \times 6\frac{1}{4}$ in. 24 pp. Illustrated. Covers complete line of rope and cord.

SCREENS

- 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.
- Copper & Brass Research Association**, 25 Broadway, New York City.
Screens That Keep Them Out. Booklet 6×9 in. 16 pp. A valuable brochure on wire mesh of rust-proof and pest-proof screen material.
- The Higgin Manufacturing Co.**, Newport, Ky.
Your Home Screened the Higgin Way. Booklet. $8\frac{1}{2} \times 11\frac{1}{2}$ in. 13 pp. Illustrated in colors. Complete description of Higgin Screens, designed to meet every need.

SEWAGE DISPOSAL

- Kewanee Private Utilities**, 442 Franklin St., Kewanee, Ill.
Specification Sheets. $7\frac{3}{4} \times 10\frac{1}{4}$ in. 40 pp. Illustrated. Detailed drawings and specifications covering water supply and sewage disposal systems.

SHELVING-STEEL

- David Lupton's Sons Company**, Philadelphia, Pa.
Lupton Steel Shelving. Catalog D. Illustrated brochure, 40 pp., $8\frac{1}{2} \times 11$ in. Deals with steel cabinets, shelving, racks, doors, partitions, etc.

SOUND DEADENER

- Cabot, Inc.**, Samuel, Boston, Mass.
Cabot's Deadening Quilt. Brochure $7\frac{1}{2} \times 10\frac{1}{2}$ ins., 28 pp., Illustrated. Gives complete data regarding a well-known protection against sound.

STAINS—See Paints, Varnishes, Wood Finishes

STEEL JOISTS

- Massillon Steel Joist Co.**, Canton, Ohio.
Massillon Bar Joists. Pamphlet. $8\frac{1}{2} \times 11$ in. 8 pp. Illustrated. Describes the product and methods of its use.
- Safe Loading Tables and Standard Specifications. Pamphlet. $8\frac{1}{2} \times 11$ in. 8 pp. Gives standard specifications for Massillon Bar Joist Permanent Fireproof Floor and Roof Construction, and safe loading tables for all spans from 4 feet to 30 feet 6 inches. It also gives detailed dimensions of the 21 standard bar joists covering this range of span.
- Handling and Erection of Massillon Bar Joists. Pamphlet. $8\frac{1}{2} \times 11$ in. 12 pp. Illustrated. Intended chiefly to instruct the contractor in the different methods of using the product.

STEEL JOISTS—Continued

- Massillon Metal Lath. Pamphlet. $8\frac{1}{2} \times 11$ in. 8 pp. Illustrated. Detailed recommendations, with illustrations, regarding typical methods of fireproofing steel joist floor construction, steel columns and steel beams.

STONE, BUILDING

- Indiana Limestone Quarrymen's Association**, Box 766, Bedford, Ind.
Volume 3, Series A-3. Standard Specifications for Cut Indiana Limestone work, $8\frac{1}{2} \times 11$ in. 56 pp. Containing specifications and supplementary data relating to the best methods of specifying and using this stone for all building purposes.
- Vol. 1. Series B. Indiana Limestone Library. 6×9 in. 36 pp. Illustrated. Giving general information regarding Indiana Limestone, its physical characteristics, etc.
- Vol. 4. Series B. Booklet. New Edition. $8\frac{1}{2} \times 11$ in. 64 pp. Illustrated. Indiana Limestone as used in Banks.
- Volume 5. Series B. Indiana Limestone Library. Portfolio. $11\frac{1}{8} \times 8\frac{1}{4}$ in. Illustrated. Describes and illustrates the use of stone for small houses with floor plans of each.

STORE FRONTS

- Brasco Manufacturing Co.**, 5025-35 South Wabash Avenue, Chicago, Ill.
Portfolio. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrated. Selected examples of Brasco Copper Store Fronts suitable for different businesses and varying conditions of locations.
- Catalog 28. $8\frac{1}{2} \times 10\frac{1}{4}$ in. 20 pp. Illustrated with plates. Details of Brasco Copper Store front construction. Also show-cases, ventilator sashes.
- Detail Sheets. Set of five sheets giving details and suggestions for store front designing enclosed in envelope convenient for filing.
- Kawneer Co., The**, Niles, Mich.
A Collection of Successful Designs. Catalog. $9\frac{1}{4} \times 6\frac{1}{2}$ in. 64 pp. Illustrated. Showing by use of drawings and photographs many types of Kawneer Solid Copper Store Fronts.
- Catalog L, 1925 Edition. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrated. Details of copper store front construction.
- Metal Store Fronts. Sheets, 17×22 in. Draftsmen's details of copper store fronts for use in tracing.
- Zouri Drawn Metals Company**, Chicago Heights, Ill.
Zouri Safety Key-Set Store Front Construction. Catalog. $8\frac{1}{2} \times 10\frac{1}{2}$ in. 60 pp. Illustrated. Complete information with detailed sheets and installation instructions convenient for architects' files.
- International Store Front Construction. Catalog. $8\frac{1}{2} \times 10$ in. 70 pp. Illustrated. Complete information with detailed sheets and installation instructions convenient for architects' files.

SWIMMING POOL EQUIPMENT & STERILIZATION

- R. U. V. Company, Inc.**, 383 Madison Avenue, New York City.
Water Sterilization by Means of Ultra Violet Rays. Booklet $8\frac{1}{2} \times 11$ in. 16 pp. Full data on a system of purifying water.
- Swimming Pool Sterilization. Booklet $8\frac{1}{2} \times 11$ in. 24 pp. Describes a method purifying water in bathing pools.
- Wallace & Tiernan Company**, Newark, N. J.
The W. & T. Chlorometer, Technical Publication, No. 55. Booklet. $8\frac{1}{2} \times 11$ in. 8 pp. Illustrated. A useful brochure dealing with the value of pure water and the importance of the chlorination process in sterilization.

STUCCO, MAGNESITE

- Muller & Co., Franklyn R.**, Waukegan, Ill.
Everlastic Magnesite Stucco. Booklet. $8\frac{1}{2} \times 11$ in.

TECHNICAL PAINTING

- Toch Brothers**, 110 East 42nd Street, New York City.
Specifications for Dampproofing, Waterproofing, Enameling and Technical Painting. Complete and authoritative directions for use of an important line of materials.

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 $8\frac{1}{2} \times 11$ in. 12 pp. Furnishing and Setting of Terra Cotta, consisting of complete detail Specification, Glossary of Terms Relating to Terra Cotta and Short Form Specification for incorporating in Architects' Specifications.
- Color in Architecture. Revised Edition. Permanently bound volume $9\frac{1}{2} \times 12\frac{1}{4}$ in., containing a treatise upon the basic principles of color in architectural design, illustrating early European and modern American examples. Excellent illustrations in color.
- Present Day Schools. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrating 42 examples of school architecture with article upon school building design by James O. Betelle, A. I. A.
- Better Banks. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrating many banking buildings in terra cotta with an article on its use in bank design by Alfred C. Bossom, Architect.

THERMOSTATS—See Heating Equipment

TILE, HOLLOW

- National Fire Proofing Co.**, 250 Federal St., Pittsburgh, Pa.
Standard Wall Construction Bulletin 174. $8\frac{1}{2} \times 11$ in. 32 pp. Illustrated. A treatise on the subject of hollow tile wall construction.
- Natco on the Farm. $8\frac{1}{2} \times 11$ in. 38 pp. Illustrated. A treatise on the subject of fire safe and permanent farm building construction.
- Natco Homes and Garages. Booklet. 7×10 in. 32 pp. Illustrated. Showing the use of Natco Hollow Tile for private residences.

VACUUM CLEANING APPARATUS

- The Spencer Turbine Company**, Hartford, Conn.
Vacuum Cleaning Apparatus for all purposes. Booklet. 32 pp. Illustrated. Complete information on product, showing prominent buildings equipped with this system.



WM. L. WELTON, a leading Birmingham architect. Many of the most prominent structures in Birmingham—including such buildings as the Tutwiler Hotel and the Bankers' Bond Building—were designed by Mr. Welton.

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says WM. L. WELTON

“WE have in times past tried various measures to prevent leaks from developing around parapet walls,” said Wm. L. Welton, prominent architect of Birmingham, Ala. “The coping on parapets expands about 1 inch for every 100 feet, and when contraction takes place vertical seams are opened up between coping blocks, making it possible for water to run down under the roofing.

“But we have encountered no trouble from this source since adopting the method of construction we are now using. In effect, we roof the coping. And we do it by bringing the flashing up over the top of the parapet wall, securing the outer edge in place with plugs and g. i. screws and expansion bolts. This is now a standard specification on all our flat roof construction.”

Mr. Welton exercises the same care in the selection of materials to insure against roof leaks as in his methods of construction. And the fact that Carey Built-up Roofing is extensively used on buildings designed by him is an impressive tribute to Carey. Carey Built-up Roofs can always be depended on, for they are made only of first quality materials. The tough, long-fibred felt is absolutely free from “filler”. The asphalt is specially refined and blended at the Carey plant to meet the strictest standards in melting point, hardness and ductility. That's why Carey roofs cover many of the best known buildings in the country—office buildings, hotels, auditoriums, factories. Write for full information.

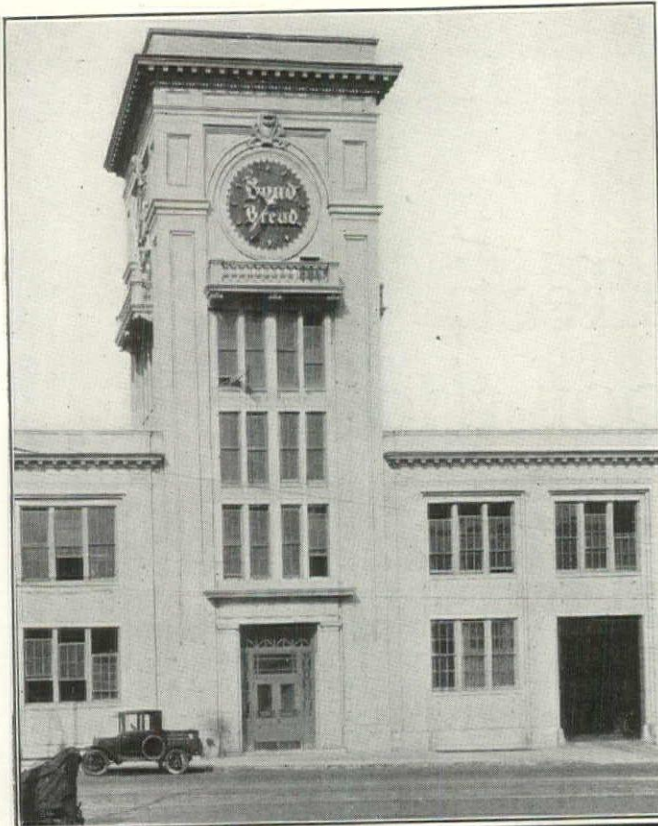
Note to architects: Send for our Architects' Specification Book.

THE PHILIP CAREY COMPANY

Lockland, Cincinnati, Ohio

Carey
BUILT-UP ROOFS

“A ROOF FOR EVERY BUILDING”



Central section of the
GENERAL BAKING COMPANY BUILDING, BROOKLYN, N. Y.
Genasco Asphalt Mastic Flooring used on entire stable floor.

A stable floor that is "stable"

The stability of Genasco Asphalt Mastic Flooring has been proved so often in buildings of so many different kinds. The fact that it is acid-resisting, waterproof, free from dust, easy to keep clean and sanitary, make it the one best floor for the new modern stable of the General Baking Company, in Brooklyn, N. Y.

Genasco Asphalt Mastic Flooring is as desirable for old buildings—factories, warehouses, etc.—as for new. It is easily laid over old floors, in one continuous unbroken sheet, with no interruption to business—a few hours and it is ready to use.

Genasco Asphalt Mastic Flooring is made with the famous Trinidad Native-Lake Asphalt—used in street paving all over the world for more than 50 years. Write us today for full information.

The Barber Asphalt Company
Philadelphia

New York Chicago Pittsburgh St. Louis Kansas City San Francisco

Genasco

Reg. U.S. Pat. Off.

Asphalt Flooring

Mastic

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 152

VAULT REINFORCING

Massillon Steel Joist Co., Canton, Ohio.
Massillon Bank Vault Reinforcing. Pamphlet. $8\frac{1}{2}$ x 11 in. 8 pp. Illustrated. General information, with illustrations, on typical bank vaults built with standardized steel reinforcing frames. The system includes chairs, spacers, and tie bars, complete and ready for the contractor to place in his forms for pouring the concrete.

VALVES

Crane Co., 836 S. Michigan Ave., Chicago, Ill.
No. 51. General Catalogue. Illustrated. Describes the complete line of the Crane Co.
Illinois Engineering Co., Racine Ave., at 21st St., Chicago, Ill.
Catalog. $8\frac{1}{2}$ x 11 in. 88 pp. Illustrated.
Jenkins Bros., 80 White Street, New York.
The Valve Behind a Good Heating System. Booklet $4\frac{1}{2}$ x $7\frac{1}{4}$ in. 16 pp. Color plates. Description of Jenkins Radiator Valves for steam and hot water, and brass valves used as boiler connections.
Jenkins Valves for Plumbing Service. Booklet. $4\frac{1}{2}$ x $7\frac{1}{4}$ in. 16 pp. Illustrated. Description of Jenkins Globe, Angle Check and Gate Valves commonly used in home plumbing, and Iron Body Valves used for larger plumbing installations.
Mueller Co., Decatur, Ill.
Catalog G, 8 x 11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in-measurements for built-in bath equipment.

VARNISH—See Paints, Stains, Varnishes

VENETIAN BLINDS

Burlington Venetian Blind Co., Burlington, Vt.
Venetian Blinds. Booklet, 7 in. x 10 in., 24 pages. Illustrated. Describes the "Burlington" Venetian blinds, method of operation, advantages of installation to obtain perfect control of light in the room.

VENTILATION

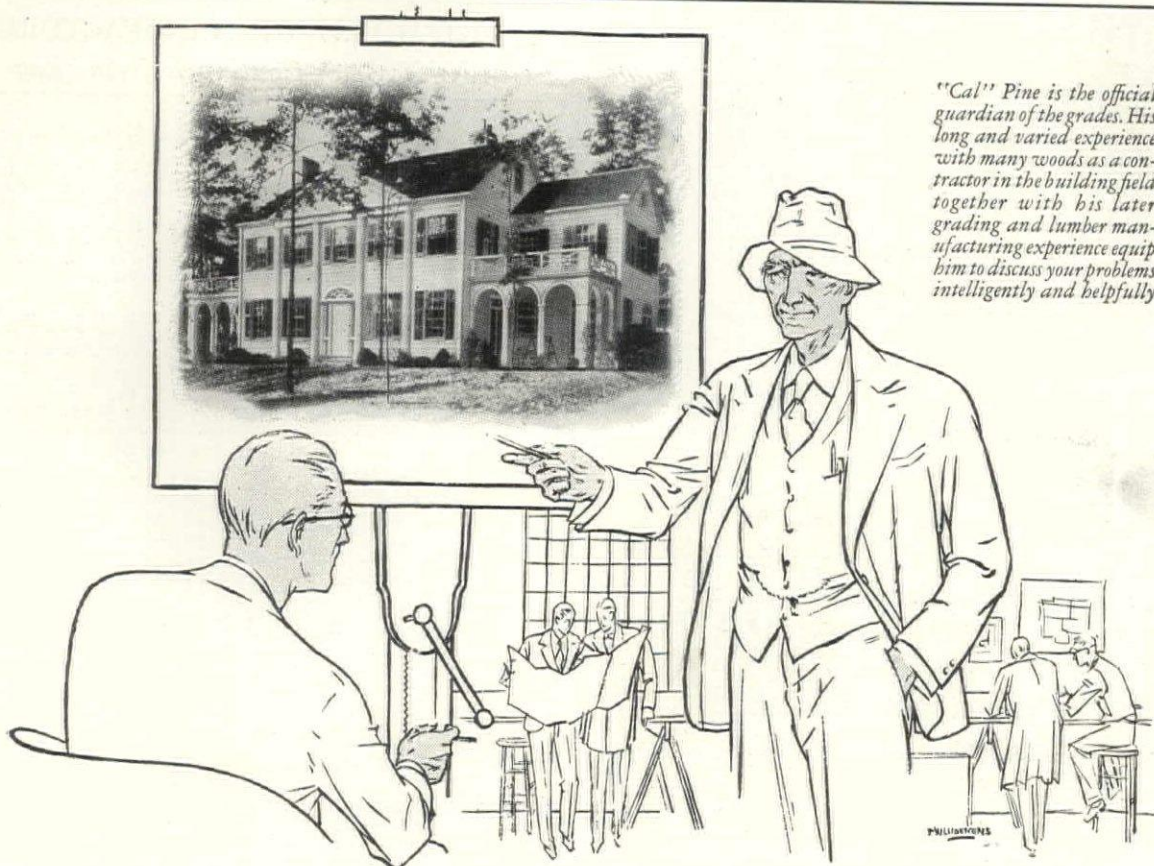
Duriron Company, Dayton, Ohio.
Acid-proof Exhaust Fans. Folder, 8 x $10\frac{1}{2}$ ins., 8 pp. Data regarding fans for ventilation of laboratory fume hoods.
Specification Form for Acid-proof Exhaust Fans. Folder, 8 x $10\frac{1}{2}$ ins.
Globe Ventilator Company, 205 River Street, Troy, N. Y.
Globe Ventilators Catalog. 6 x 9 in. 32 pp. Illustrated profusely. Catalog gives complete data on "Globe" ventilators as to sizes, dimensions, gauges of material and table of capacities. It illustrates many different types of buildings on which "Globe" ventilators are in successful service, showing their adaptability to meet varying requirements.
Peerless Unit Ventilation Company, Long Island City, N. Y.
PeerVent Heating and Ventilating Unit. Brochure 6 x $6\frac{1}{2}$ in. Illustrated. Valuable data on apparatus for ventilating and heating buildings of different types.
Van Zile Ventilating Corporation, 280 Madison Avenue, New York, N. Y.
The Ventadoor Booklet. $6\frac{1}{4}$ x $3\frac{1}{2}$ in. 16 pp. Illustrated. Describes and illustrates the use of the Ventadoor for Hotels, Clubs, Offices, etc.

WALLPAPER

Wallpaper Mfrs. Assn., 461 Eighth Avenue, New York.
Wallpaper Magazine. Illustrated. 8 x 11 in. 32 pp. Published monthly to acquaint architects and interior decorators with many interesting and decorative uses for wallpaper.

WATERPROOFING

Carey Company, The Philip, Lockland, Cincinnati, Ohio.
Waterproofing Specification Book. $8\frac{1}{2}$ x 11 in. 52 pp.
The General Fireproofing Company, Youngstown, Ohio.
Waterproofing Handbook. Booklet. $8\frac{1}{2}$ x 11 in. 72 pp. Illustrated. Thoroughly covers subject of waterproofing concrete, wood and steel preservatives, dustproofing and hardening concrete floors, and accelerating the setting of concrete. Free distribution.
A. C. Horn Company, Long Island City, N. Y.
Waterproofing. Folder. $9\frac{1}{2}$ x $11\frac{1}{2}$ in. Contains folders giving data on excellent waterproofing and dampproofing materials.
Master Builders Company, Cleveland, Ohio.
Mastertex: Waterproof Cement Paint in Colors. Folder $10\frac{1}{2}$ x 12 $\frac{1}{2}$ inches.
Ruberoid Co., The, 95 Madison Ave., New York.
Impervite. Circular. $8\frac{1}{2}$ x 11 in. 4 pp. Illustrated. An integral water-proofing compound for concrete, stucco, cement, mortar, etc.
Sandusky Cement Co., Dept. F., Cleveland, Ohio.
Medusa Waterproofing. Booklet. $6\frac{1}{4}$ x 9 in. 38 pp. Illustrated.
Sommers & Co., Ltd., 342 Madison Ave., New York City.
"Permantile Liquid Waterproofing" for making concrete and cement mortar permanently impervious to water. Also circulars on floor treatments and cement colors. Complete data and specifications. Sent upon request to architects using business stationery. Circular size, $8\frac{1}{2}$ x 11 in.
Sonneborn Sons, Inc., L., 116 Fifth Ave., New York, N. Y.
Pamphlet. $3\frac{3}{4}$ x $8\frac{3}{4}$ in. 8 pp. Explanation of waterproofing principles. Specifications for waterproofing walls, floors, swimming pools and treatment of concrete, stucco and mortar.
Toch Brothers, 110 East 42nd Street, New York City.
Specifications for Dampproofing, Waterproofing, Enameling and Technical Painting. Complete and authoritative directions for use of an important line of materials.



"Cal" Pine is the official guardian of the grades. His long and varied experience with many woods as a contractor in the building field together with his later grading and lumber manufacturing experience equip him to discuss your problems intelligently and helpfully

The Architect and "Cal" Pine Discuss Siding and Exterior Trim

"Now then, 'Cal' Pine, tell me, in what ways can California Pine be used to best advantage as siding and exterior trim?"

"Well, for exterior wall coverings, California Pine lends itself readily to artistry in design. Its soft, uniform texture and close, even grain assure sharp, clean edges, accurate contouring and permit close fitting.

"California Pine is obtainable in all widths of bevel, wide Colonial and every pattern of 'drop' siding. Porch columns, pilasters, newell posts, mouldings and all sorts of trim are readily milled from this soft-textured wood.

"And you can depend on California Pine to *preserve* accuracies of construction and fitting, owing to its freedom from warping, end-shrinking and twisting."

"How about nail-holding and paint-taking qualities, 'Cal' Pine?"

"You have touched upon two of the outstanding advantages of California Pine. You can drive nails

anywhere in California Pine siding or trim and they will hold tight without splitting. California Pine is a 'smooth' painting wood and readily takes any color paint because of the light natural color of the wood. Paint-oils are readily absorbed and retained, thus requiring less frequent re-painting."

"What are the standard grades of California Pine siding?"

"Well, Bevel Siding comes in four grades—'B and Better,' 'C,' 'D,' 'E.' Drop Sidings are milled from either 'Select' or 'Common' grades. And there is wide Colonial milled from the same grades of California Pine as Bevel Siding.

"Send for a free copy of my illustrated book of grades. It also contains full information on sizes and uses of California Pine lumber and is a mighty valuable working tool for the drafting room."



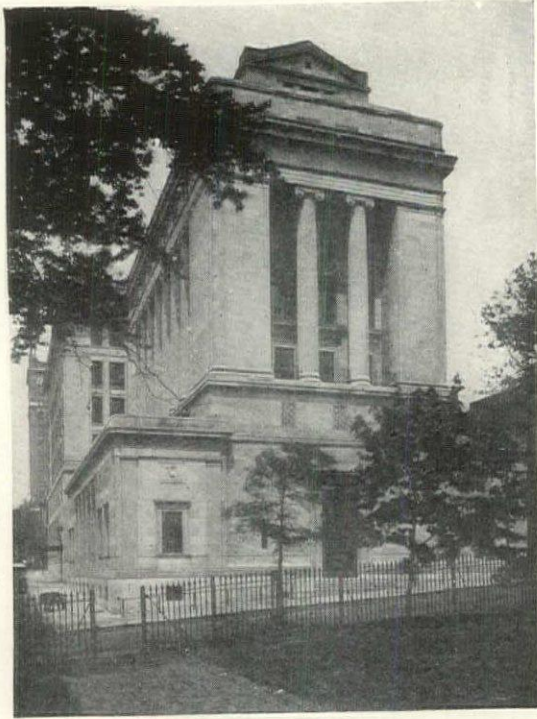
CALIFORNIA WHITE AND SUGAR PINE MANUFACTURERS ASSOCIATION

Also producers of CALIFORNIA WHITE FIR • CALIFORNIA DOUGLAS FIR • CALIFORNIA INCENSE CEDAR
654 CALL BUILDING, SAN FRANCISCO

california PINE

California White Pine (trade name)

California Sugar Pine



Federal Reserve Bank, Richmond, Va.
Vented through Midwest Air Filters

Only Complete Performance Data Determines Air Filter Superiority

The merits of any air filter can be properly determined only by what it does and how much it costs to operate, as demonstrated by actual installations in service long enough to bring out its real operating characteristics.

The theoretical superiority of Midwest Air Filters is being demonstrated to be an actual superiority by the series of reports now being made by a well-known firm of engineers on Midwest installations in service a year or more.

These reports submit unbiased performance data for your consideration. Operating costs include every item that should be considered—depreciation, interest on the investment, power consumed, etc., as well as the cost of labor and recharging fluid. Actual results accomplished are detailed, and operating characteristics noted after a year or more of service are reported.

A number of these reports are now ready for distribution. They include, besides one on the Book-Cadillac Hotel installation, a report on the Federal Reserve Bank, of Richmond, Va., and several more on industrial plants, such as the Flint Motor Company, and a large Eastern steel plant.

Dept. AF will be glad to send any number of copies of each report, as you may request

MIDWEST AIR FILTERS

INCORPORATED

BRADFORD, PA.

Offices in Principal Cities

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—Continued from page 154

WEATHER STRIPS

- Chamberlin Metal Weather Strip Company**, 1644 Lafayette Boulevard, Detroit, Mich.
Chamberlin Metal Weather Strip Details, 1925 edition. Catalog 8½ x 11 in. 48 pp. Complete specifications and full-sized details. With or without 9 x 11¾ in. folder conforming to A. I. A. filing system. May also be used in loose leaf form. Excluding Cold and Dust with Chamberlin for 32 years. Booklet 5½ x 7¾ in. 16 pp. Illustrated. Completely and interestingly illustrates application of Chamberlin equipment.
- The Higgin Manufacturing Co.**, Newport, Ky.
Higgin All-Metal Weather Strips. Booklet. 6 x 9 in. 21 pp. Illustrated in colors. Describes various types of Higgin Weather Strips for sealing windows and doors against cold and dust.

WINDOWS

- David Lupton's Sons Company**, Philadelphia, Pa.
Lupton Pivoted Sash, Catalog 12-A. Booklet 48 pp. 8½ x 11 in. Illustrates and describes windows suitable for manufacturing buildings.

WINDOWS, CASEMENT

- Richards-Wilcox Mfg. Co.**, Aurora, Ill.
Casement Window Hardware. Booklet. 24 pp. 8½ x 11 in. Illustrated. Shows typical installations, detail drawings, construction details, blue-prints if desired. Describes AIR-way Multifold Window Hardware.
- Crittall Casement Window Co.**, 10951 Hearn Ave., Detroit, Mich.
Catalog No. 22. 9 x 12 in. 76 pp. Illustrated. Photographs of actual work accompanied by scale details for casements and composite steel windows for banks, office buildings, hospitals and residences.
- Hope & Sons, Henry**, 103 Park Ave., New York, N. Y.
Catalog. 12¼ x 18½ in. 30 pp. Illustrated. Full size details of outward and inward opening casements.
- David Lupton's Sons Company**, Philadelphia, Pa.
Lupton Casement of Copper-Steel. Catalog C-122. Booklet 16 pp. 8½ x 11 in. Illustrated brochure on casements, particularly for residences.

WINDOWS, STEEL AND BRONZE

- The Kawneer Company**, Niles, Mich.
Kawneer Simplex Windows. Catalog. 8½ x 10½ in. 16 pp. Illustrated. Complete information, with measured details, of Kawneer Simplex Weightless Reversible Window Fixtures, made of solid bronze. Shows installations in residences and buildings of all sorts.
Detail Sheets and Installation Instructions. Valuable for architects and builders.
- Metal Windows**. Catalog. 8½ x 11 in. 18 pp. Illustrated. Features double-lining and casement windows of metal.
- David Lupton's Sons Company**, Philadelphia, Pa.
A Rain-shed and Ventilator of Glass and Steel. Pamphlet, 4 pp. 8½ x 11 in. Deals with Pond Continuous Sash, Sawtooth Roofs, etc.
- How Windows Can Make Better Homes. Booklet. 3¾ x 7 in. 12 pp. An attractive and helpful illustrated publication on use of steel casements for domestic buildings.
- Truscon Steel Company**, 250 W. Lafayette Blvd., Detroit, Mich.
Truscon Steel Windows. Catalog. 8½ x 11 in. 80 pp. Illustrated. Contains complete data on all types of Truscon Steel Windows.

WOOD—See also Millwork

- American Walnut Mfrs. Association**, 618 So. Michigan Blvd., Chicago, Ill.
American Walnut. Booklet. 7 x 9 in. 45 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.
- Real American Walnut Furniture. Folder. 8½ x 11 in. 4 pp. Illustrated. Tells how to identify the genuine and avoid the substitute in buying "Walnut" furniture.
- California White and Sugar Pine Mfrs. Assn.**, San Francisco, Calif.
Information Sheet No. 1, California White Pine; Information Sheet No. 2, California Sugar Pine. Illustrated booklets 8 x 10½ in. First of a series of Information Sheets on these woods and their uses for construction and finish.
Introducing "Cal" Pine, Guardian of the Grades. Booklet, 50 pp., 7¾ x 10¾ ins. Illustrated. Valuable data on siding, battens, flooring, mouldings, etc.
- A series of information sheets on California White Pine, Sugar Pine, California White Fir, Douglas Fir and Incense Cedar. Technical data as to supply, production, quantities, uses, grades and sizes of all lumber products of the mills in the Association. Furnished with standard size filing folder for easy reference. Information sheets are 8 x 10½ in. text matter is arranged in uniform style.
- Curtis Companies Service Bureau**, Clinton, Iowa.
Better Built Homes. Vols. XV-XVIII, incl. Booklet. 9 x 12 in. 40 pp. Illustrated. Designs for houses of five to eight rooms, respectively, in several authentic types, by Trowbridge & Ackerman, architects, for the Curtis Companies.
- Long-Bell Lumber Co.**, Kansas City, Mo.
The Perfect Floor. Booklet 5¼ x 7¾ in. 16 pp. Illustrated. Valuable for the data given on the use of wood for floors.
Saving Home Construction Costs. Booklet 4¾ x 7½ in. 24 pp. Discusses economy and value in domestic building.
Experiences in Home Building. Booklet 6 x 9 in. 16 pp. Records the testimony of a number of builders and contractors as to the value of certain materials.
The Post Everlasting. Booklet 8 x 11 in. 32 pp. Illustrated. Describes the production of posts and their use in various ways.

WOOD FINISHES—See Paints, Varnishes, Stains



Applied to Room Designed by MARSHALL FIELD & COMPANY · Chicago

How the Herman Nelson Invisible Radiator fits in the wall is shown by this phantom view

HERMAN NELSON

Invisible

RADIATOR

TRADE MARK

THINK of a radiator only 3½" deep—so small that it may be installed in any 4" wall. Occupying no floor or wall space, it permits of unrestricted arrangement of furniture.

The Herman Nelson Invisible Radiator removes all necessity for screens and ornamental boxes, which waste space, complicate control and lessen radiator efficiency.

It is so indestructible that it cannot

leak, rust or be harmed by freezing, and so dependable that it can be forever forgotten. Year after year this radiator in our Univent School Ventilators has given dependable service in all parts of the country, where temperatures frequently reach 20° to 40° below zero.

Write for our beautifully illustrated book visualizing the application of the Herman Nelson Invisible Radiator, to show your clients as well as data book, showing the simplicity of installation.

THE HERMAN NELSON CORPORATION, *Moline, Ill.*

Builders of successful Heating and Ventilating Equipment for 20 years

Sales and Service

BELFAST, ME.
BOSTON
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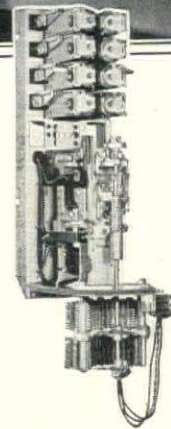


When UNIFORMITY Counts

THERE is a definite limit to the number of calls which your Private Exchange Operator can properly handle during a given time. It is humanly impossible for her to maintain uniformly prompt service at all times because of the fluctuations in the load of incoming, outgoing and interior calls. Just at that point in the day's procedure when you find it most essential to secure an important connection promptly, she may be so heavily burdened with interior telephone traffic that your call is delayed.

Safeguard the efficiency of your operator by providing equipment that will enable her to handle the peak load of calls with facility and certitude. Relieve her of the strictly mechanical work of setting up interior connections. Place the burden of interior calls on the P-A-X. Because its connections are made instantly, accurately and automatically, it insures uniform service every hour in the day and every day in the year.

Count on



The P-A-X CONNECTOR

The "operator" of all P-A-X systems is the "connector" shown above. This mechanism has been in use in public automatic exchanges for a quarter of a century, doing all of the work formerly done by operators, but with unflinching accuracy and lightning speed.



The P-A-X is, fundamentally, a private automatic telephone exchange built of the same Strowger type of automatic telephone equipment being so widely adopted for city service. The P-A-X may be furnished to include and co-ordinate such services as code-call, conference, executive's priority, emergency alarm, etc., to meet individual needs.

Automatic Electric Inc.

Engineers, Designers and Manufacturers of the Automatic Telephone In Use the World Over.
Home Office and Factory, CHICAGO, ILL. Branch Offices in all principal cities.



THE DINING ROOM

Nothing is more annoying or more embarrassing to your clients than a cold or chilly dining room. Such a thing is contrary to the best health rules and decidedly a *faux pas* in society.

Who wants to shiver through a full course dinner — what hostess wants to be constantly embarrassed when entertaining.

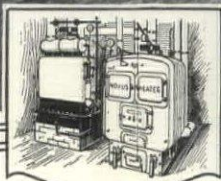
With Aero Radiators on the job your clients are assured constant comfort, an even, steady flow of healthful warmth, absolute cleanliness and general self satisfaction in poise, dignity and peace of mind.

Yet all of this does not recount the beautiful, graceful slender lines and the pleasing proportions of Aero Radiators nor the fact that with all these advantages Aero Radiators *still sell at the same standard price as the old radiator types.*

Send for literature.

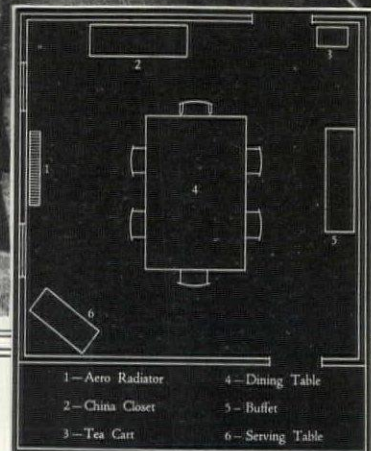
NATIONAL RADIATOR COMPANY
JOHNSTOWN, PA.

New York Philadelphia Baltimore Washington Richmond Pittsburgh Cincinnati Cleveland Chicago



National Boilers will warm your clients' homes comfortably, evenly, dependably and economically. They burn coal, oil or gas as a fuel.

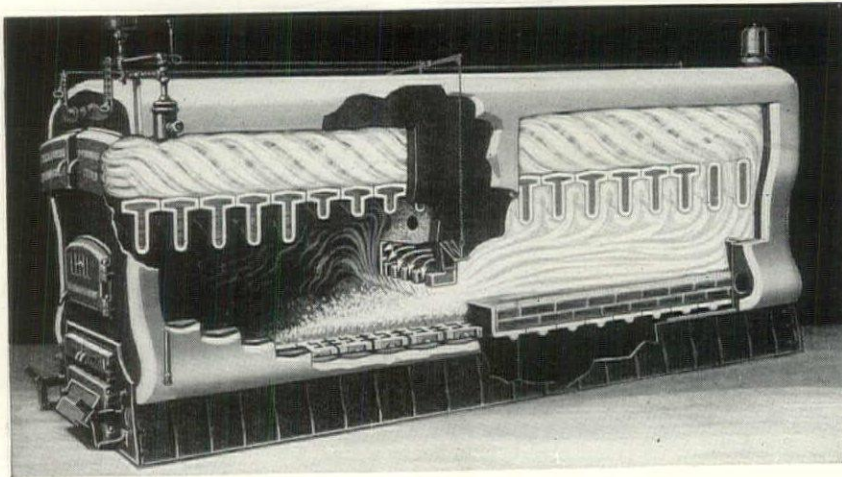
Your copy of a book containing the complete series of these advertisements, which shows how Aero Radiators have been made an integral part of the furnishings, will be sent free upon request.



This floor plan shows how the furniture was placed to make this dining room charming and beautiful.

BEAUTY and WARMTH with

AERO RADIATORS



UTICA-IMPERIAL
**SUPER
 SMOKELESS
 BOILERS**

*"The Standard
 of Smokeless
 Boilers"*

BURN SMOKE AS FUEL!

Utica-Imperial SUPER-SMOKELESS Boilers not only burn soft coal smokelessly, but attain remarkable heating efficiency even with the cheaper grades of soft coal. This is accomplished by admitting heated air to the fire, on the principle of the Bunsen Burner, and converting smoke and soot into fuel of remarkable heating value. The smokelessness and economy of SUPER-SMOKELESS Boilers have been demonstrated in thousands of installations.

UTICA HEATER COMPANY, Utica, N. Y.

"Pioneers in Smokeless Combustion"

Sales Offices in the Principal Cities

D2-107

Wilson

1876—FIFTY YEARS IN BUSINESS—1926

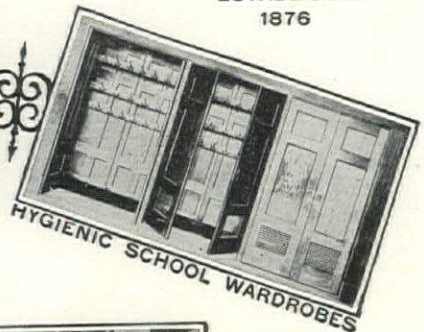
ESTABLISHED
 1876



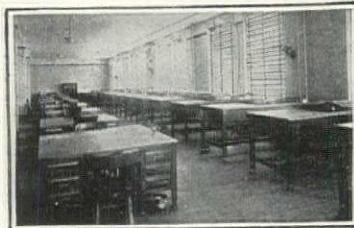
SECTIONFOLD PARTITIONS



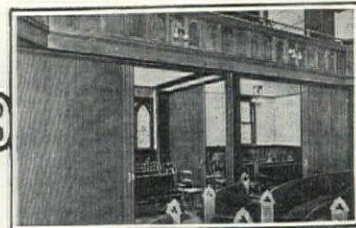
ROLLING STEEL DOORS



HYGIENIC SCHOOL WARDROBES



VENETIAN & AWNING BLINDS



ROLLING PARTITIONS

AIRKORE FIRE DOORS

SEND FOR DESCRIPTIVE CATALOGS

THE J. G. WILSON CORPORATION, 11 E. 38TH ST., N. Y. C.

HOME IS WHERE THE HART IS



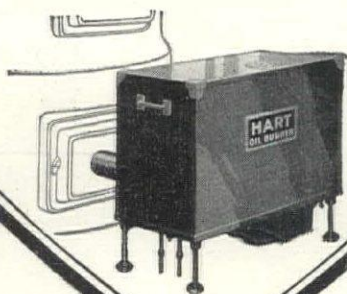
Facts no architect can afford to forget

To think of heating solely in terms of radiation and room temperature is to overlook two of the most conspicuous benefits of the Hart Oil Burner. These are *convenience and cleanliness*, factors of major importance to any woman who presides over a home.

Of even greater importance to both men and women is the *unfailing reliability* of the Hart Oil Burner. Listed as standard by Underwriters' Laboratories, Inc. Can be attached to any heating plant, hot air, hot water, steam or vapor, in five hours' time.

Every architect knows that a modernized heating plant is an asset which bears directly on the value of any man's investment in a home. Your clients will appreciate being fully advised about the Hart Oil Burner. The facts are covered in a fine booklet which will be gladly forwarded upon request.

W. B. WILDE CO., Peoria, Illinois



Hart Electric Icer

An improved electric refrigerator built in sizes to suit requirements. Send for booklet

The Hart Dealer in your city will be glad to give full information without placing you under the least obligation

HART OIL BURNER

W. B. WILDE CO.

2148 North Adams Street, Peoria, Illinois

You may send me, without cost or obligation:

Latest booklet on Oil Heating.

Booklet on the Hart Electric Icer.

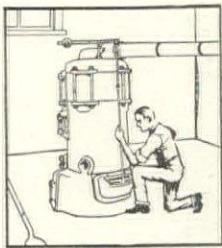
Name.....

Street.....

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

To the man who writes specifications

*Answering your questions about
automatic regulation of hot
water heating plants*



Does a hot water heating boiler need automatic regulation?

Yes. No hot water plant can perform satisfactorily, day in and day out, if dependent upon manual control. The "system" companies, who specialize in hot water heating, use automatic regulation as standard equipment.



Does a water regulator add materially to the cost of a hot water system?

No. An Arco Water Regulator saves its initial cost each season and lasts as long as the boiler. By including an Arco Water Regulator in your specifications, you give the owner a refinement which costs him nothing in the end.

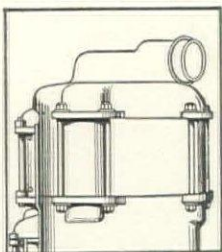
What is the simplest method of regulating a hot water system?

Through the use of a "Damper Regulator" attached directly to the boiler. This keeps the water in the system at any desired temperature by automatically regulating the damper.



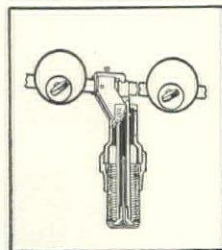
What does automatic regulation mean to the owner?

Relief from fussing with the damper—and from thousands of needless trips to the basement. An owner is quick to appreciate the convenience of automatic regulation.



Do boiler manufacturers supply a regulator with a hot water boiler?

No, manufacturers do not supply regulator except in a few isolated cases. To make sure that your client has this refinement, you must include a water regulator in your specifications.



*The Arco Water Regulator
No. 800*

Attached to any hot water boiler, this device keeps the water at the desired temperature more accurately than is possible by hand control. It never forgets—never sleeps. Small size for tank heaters No. 801.

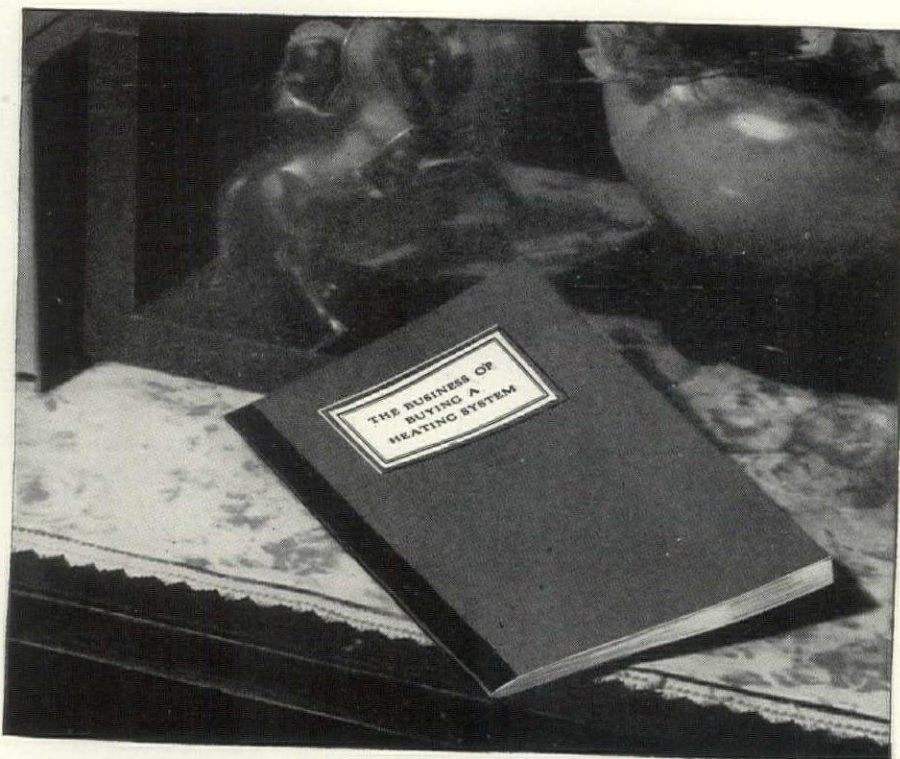
*The ARCO WATER REGULATOR is one of
many heating accessories made and guaranteed by*

AMERICAN RADIATOR COMPANY

Specialties Department

816 S. Michigan Avenue

Chicago, Ill.



*You will want to have copies
of this book for your clients*

INTENDED originally to clarify many phases of the heating problem to the layman, there are many chapters in this book which will assist you in explaining the technical reasons for your recommendations.

Some of the most interesting chapters that will help you simplify phases of this important problem are:—

How Much Should the Heating System Cost in Relation to the Total Building Investment?

What Part in the Operating Budget?

Heat for the Home

Heating Systems

Heat for Other Kinds of Buildings

Fuels

You may have as many copies as you wish to give to your clients, or we shall be glad to mail them directly to them in your name.

Spencer
steam, vapor or hot water
Heater
burns No.1 Buckwheat coal



SPENCER HEATER COMPANY General Offices: **WILLIAMSPORT, PA.**
New York City Boston Philadelphia Baltimore Buffalo Rochester Hartford Washington Detroit Schenectady Syracuse Harrisburg Scranton



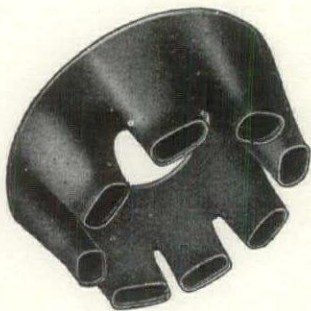
**SELF CLEANING
CARTON
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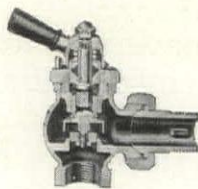
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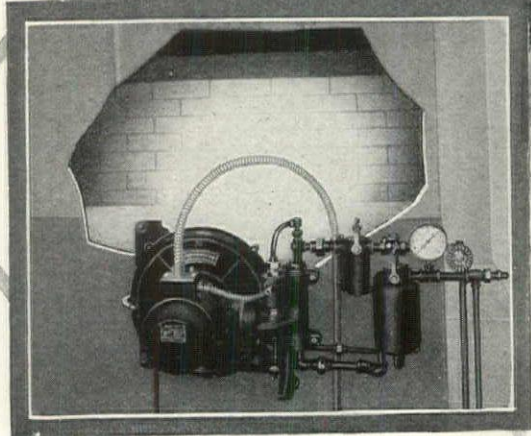
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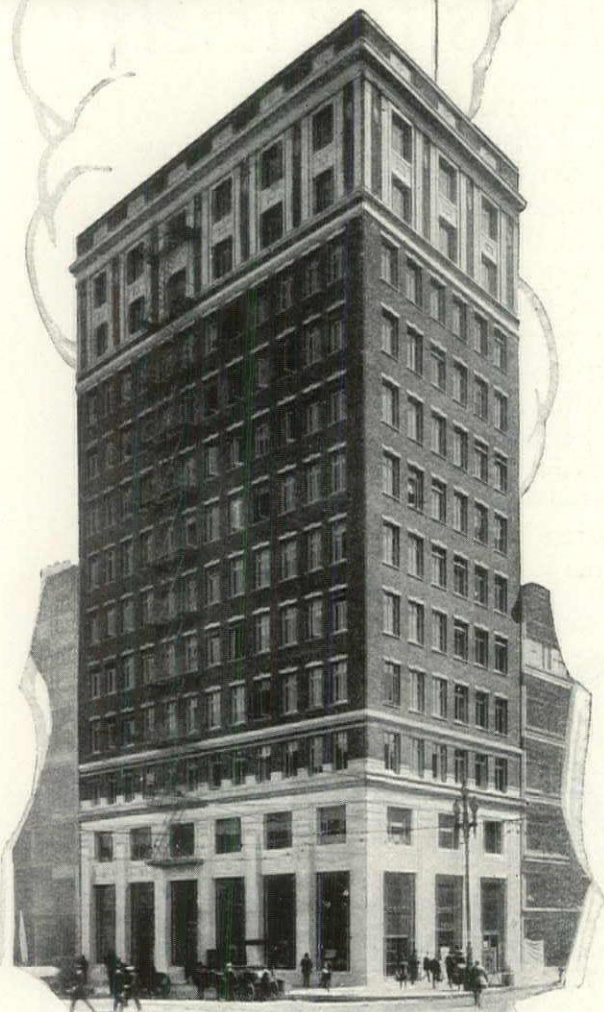
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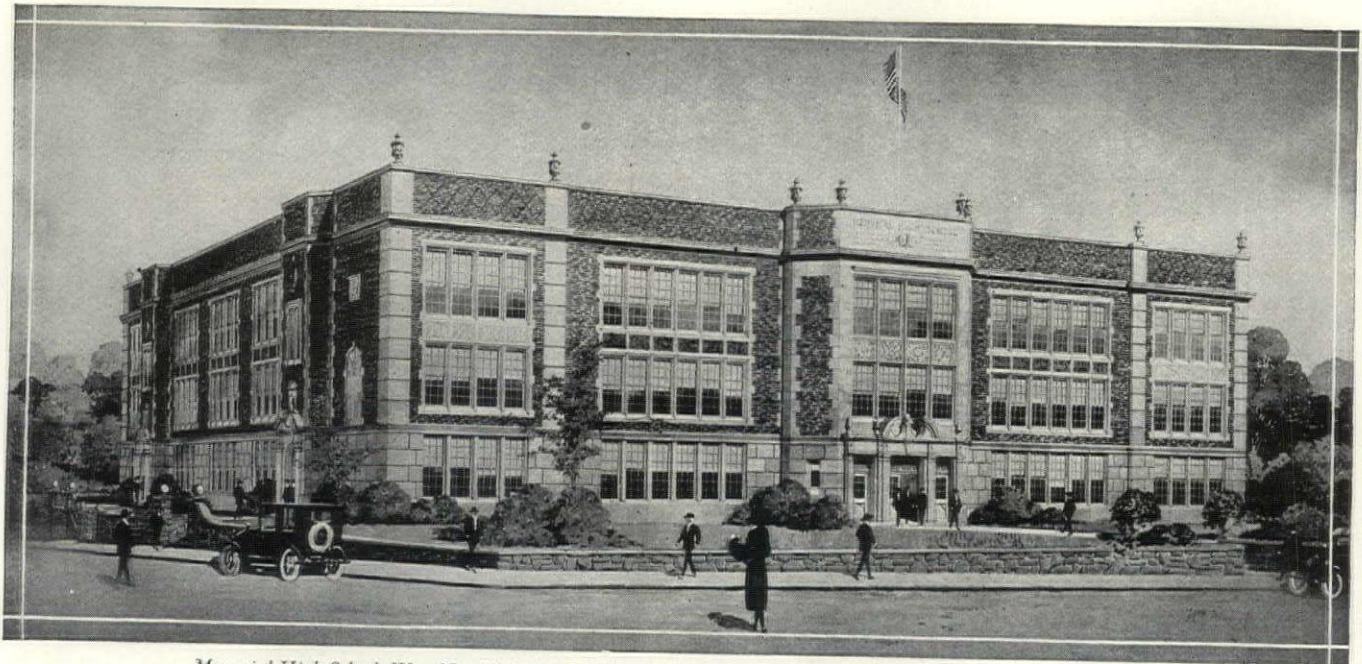


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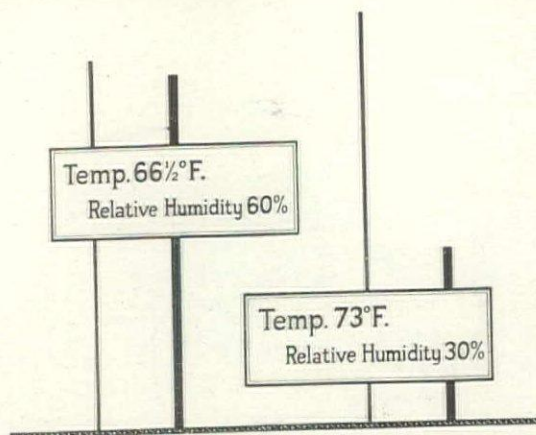
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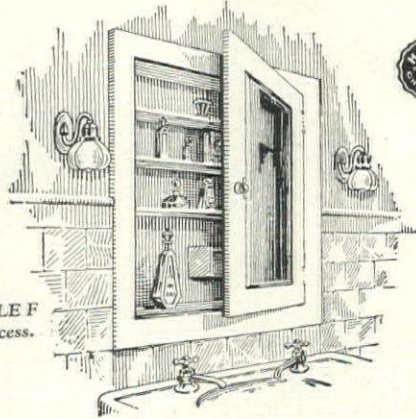
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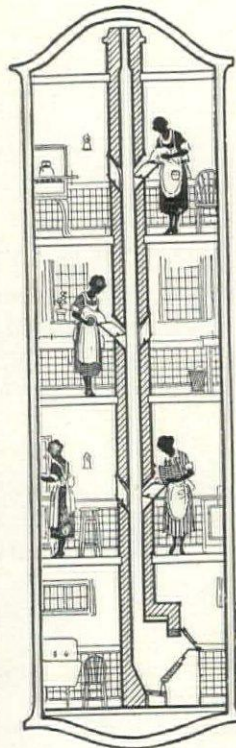


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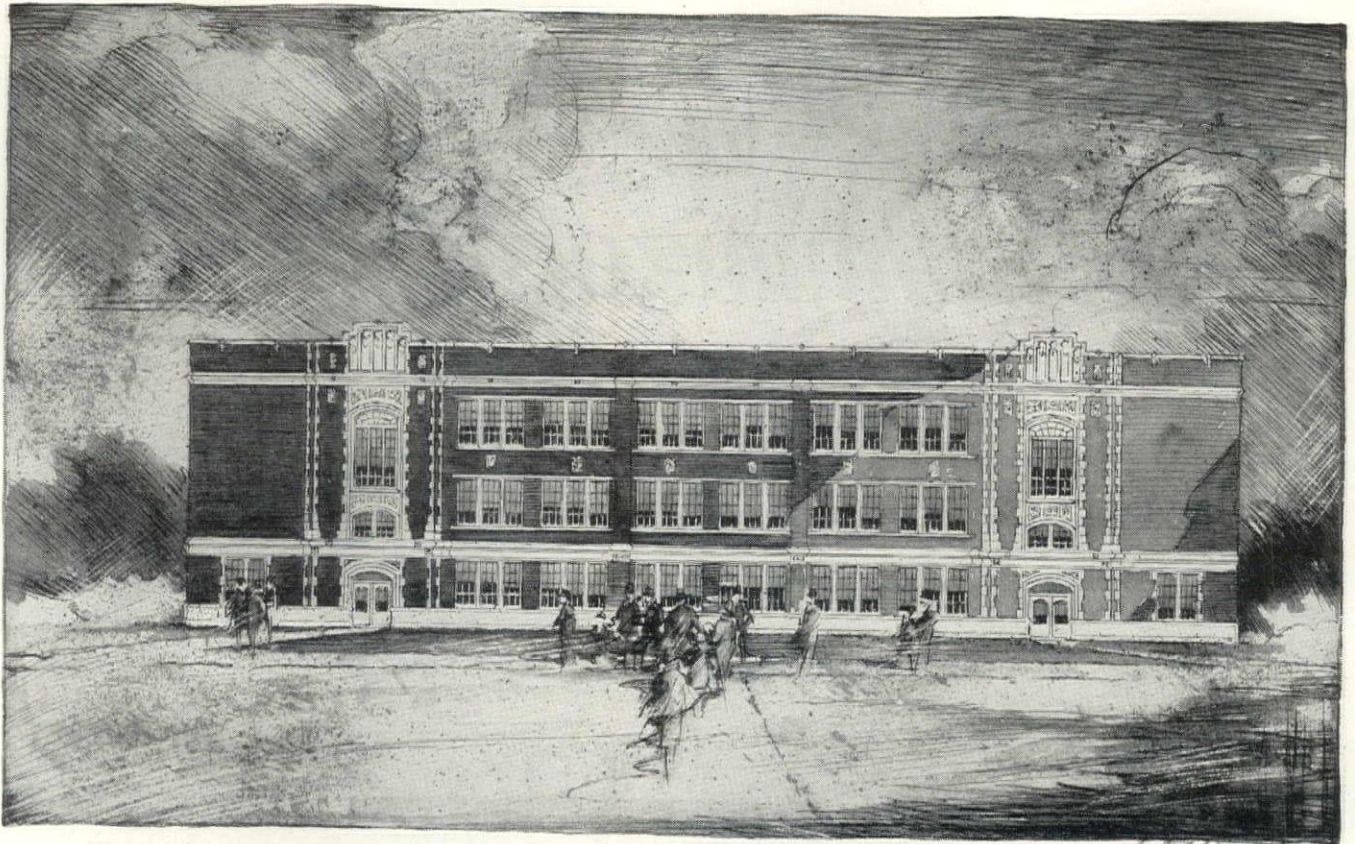
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A National Skyline of Dunhamized Hotels



Top, left to right:
Wolverine, Detroit.
Redmont, Birmingham.
Hamilton, Washington, D. C.
Vendig, Philadelphia
Ambassador, N. Y. City.
Left, reading down:
Neill, Columbus, O.
Fort Des Moines, Des Moines.
Nicollet, Minneapolis.

From Coast to Coast and "Way Down in Alabama" Travelers Enjoy Dunham Heating Comfort

WHEN a firm of architects adopts and specifies, over a varying period of years, the same certain equipment for a chain of buildings scattered throughout the country, but all emanating from their offices, it may well be a matter of satisfaction and pride to the manufacturer of that equipment.

However, the meaning of such architectural approval of the value and efficiency of any equipment is largely augmented if a large number of architectural firms in widely

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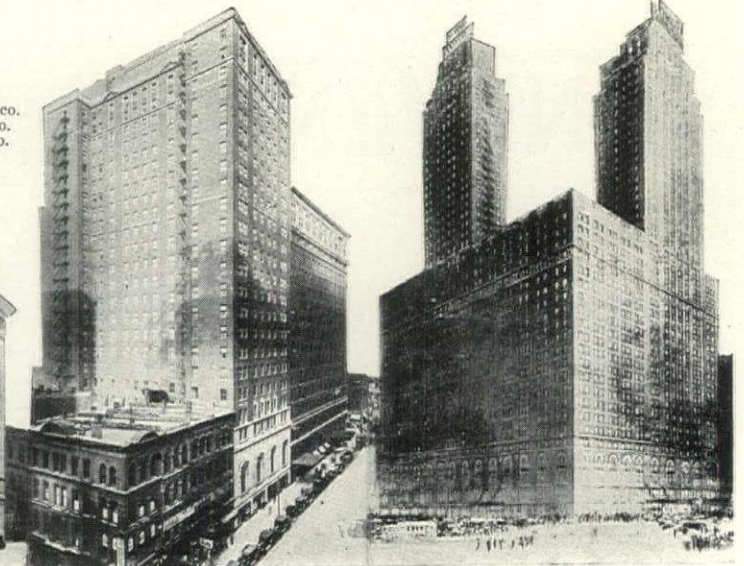
Dunham Building

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Chicago



Lower, left to right:
Utah, Salt Lake City.
Clift, San Francisco.
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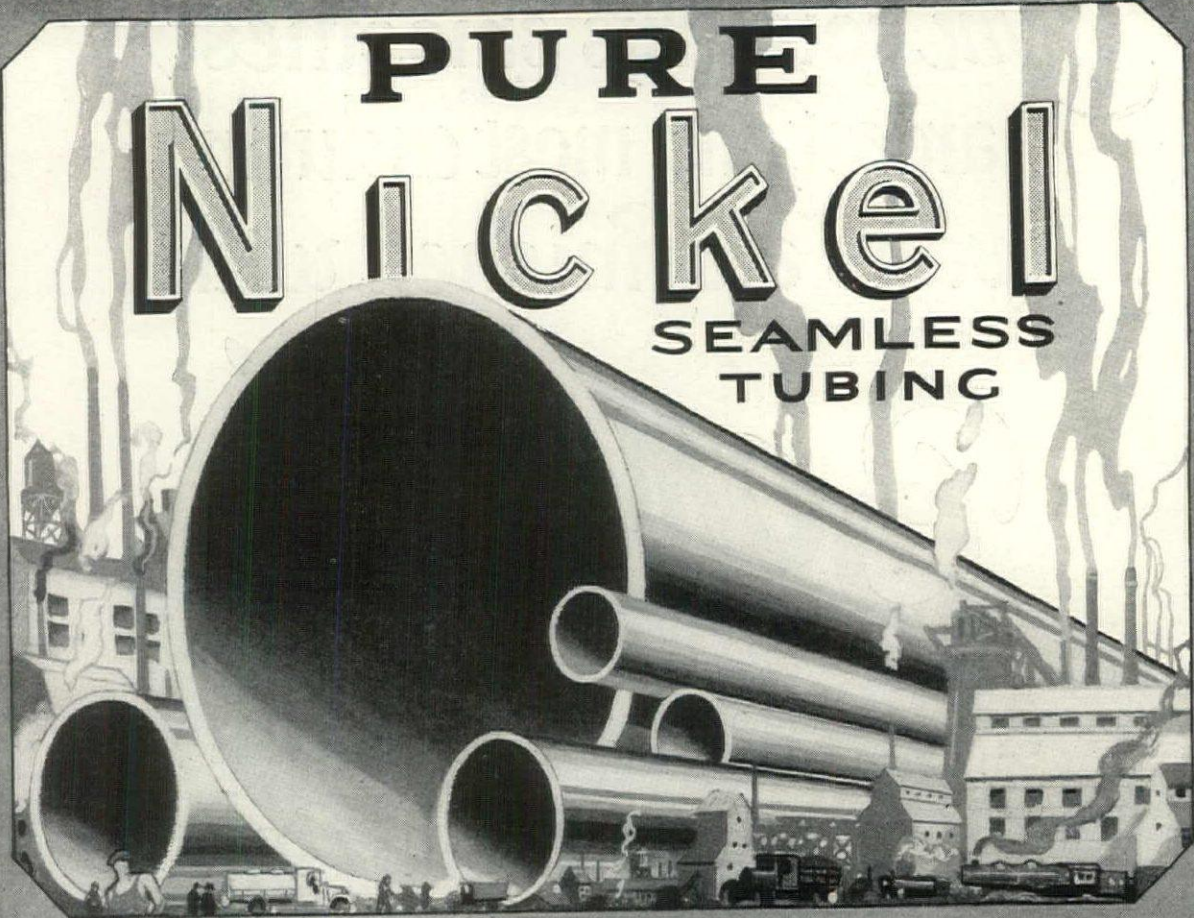
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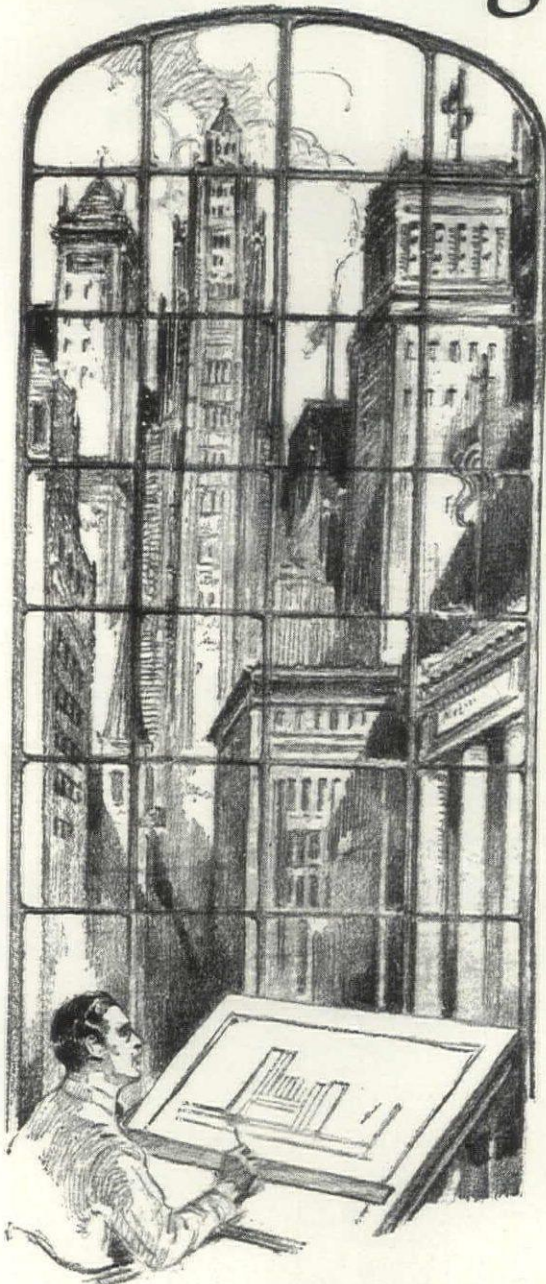
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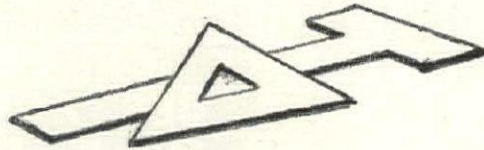
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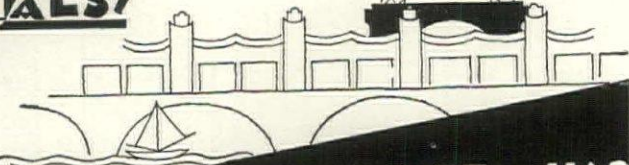
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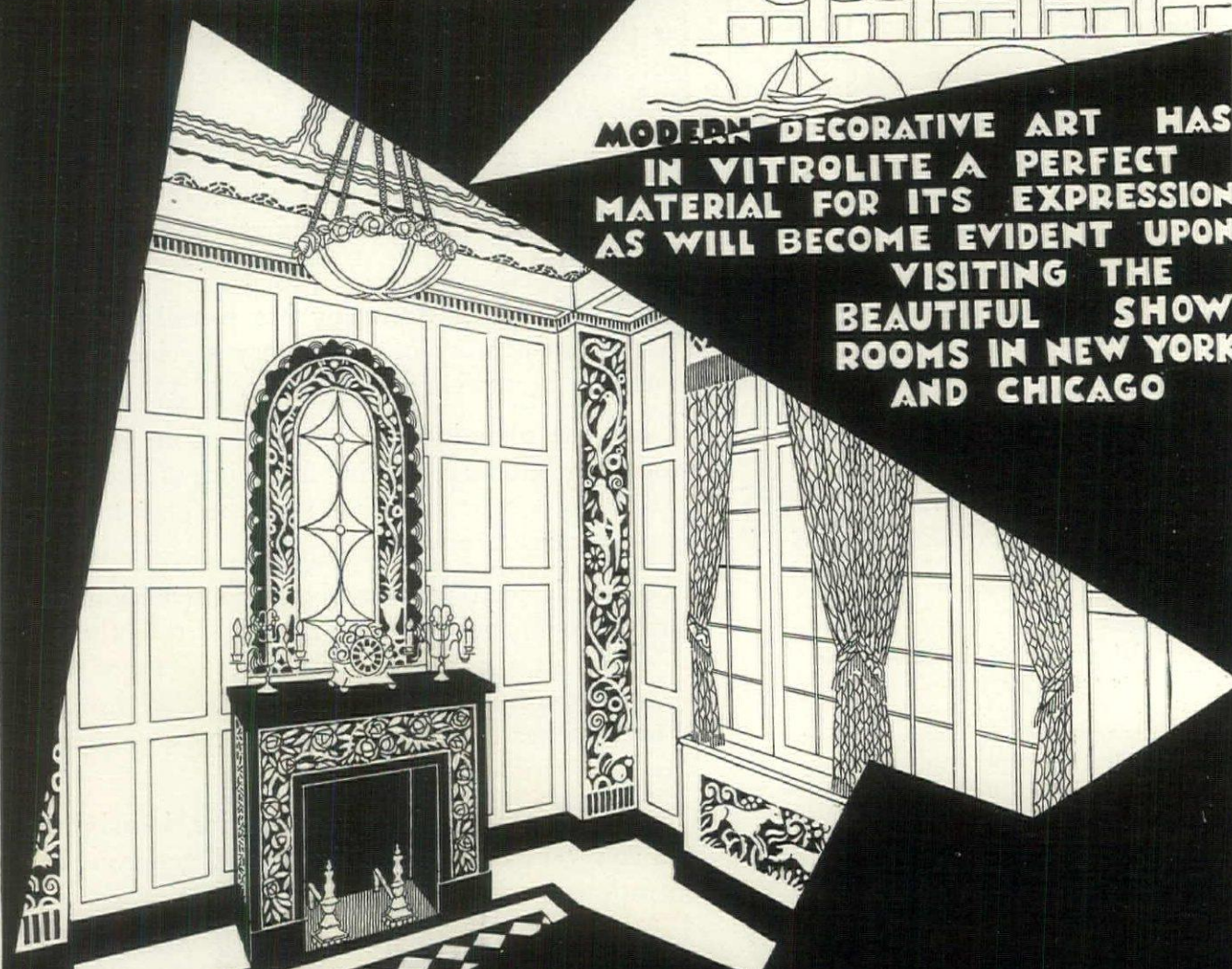
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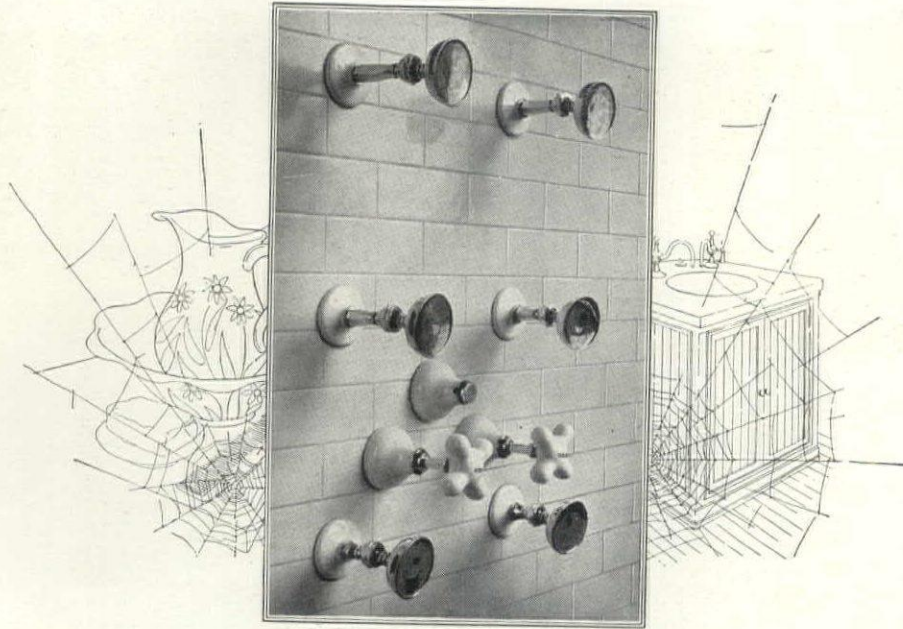
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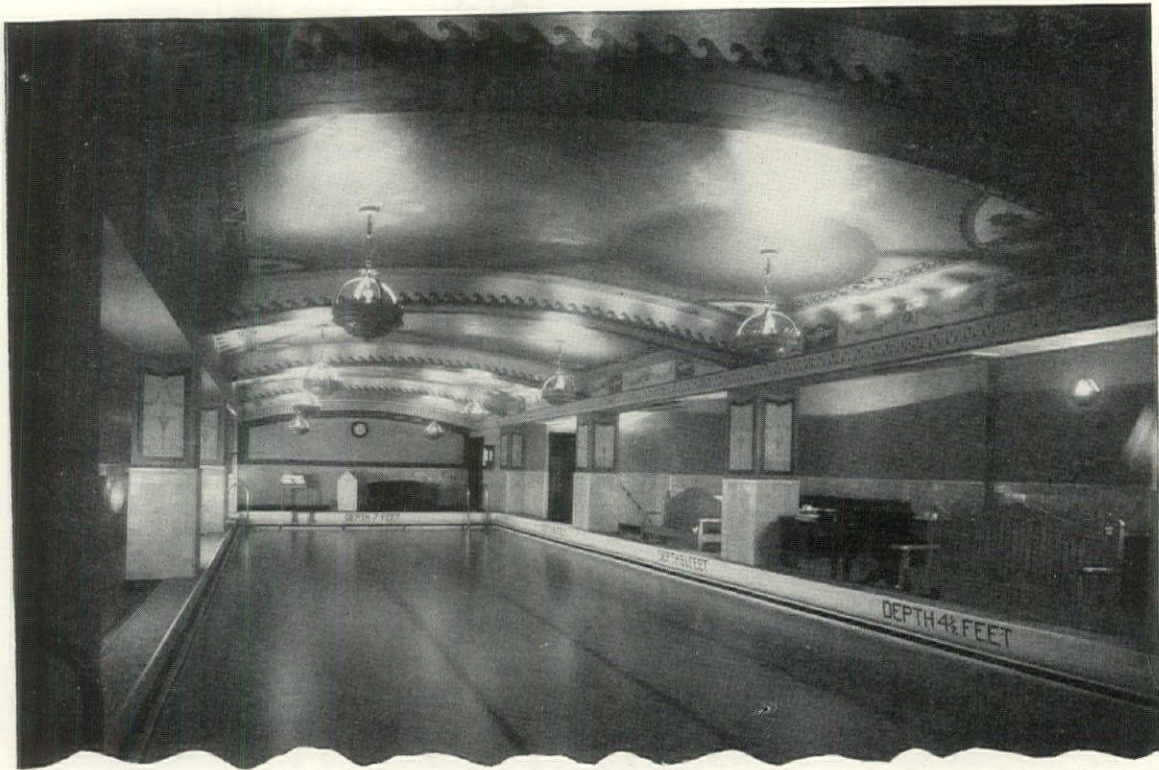
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WHEN you know the water in a pool is pure and refreshing—free from harmful bacteria and free from biting chemicals—there's a beckoning appeal that says, "Come on, dive in." And if you heed that appeal, you'll come up with a pleasant and refreshed feeling.

That is the kind of water you'll have in the pools you design if the recirculating systems are equipped with R-U-V Sterilizers. Every drop of water that goes through them is perfectly sterilized. Quartz mercury vapor lamps produce powerful ultra violet rays which penetrate each drop of water and instantly kill every disease-producing germ. But these rays cannot in any way affect the taste, composition or feel of the water.

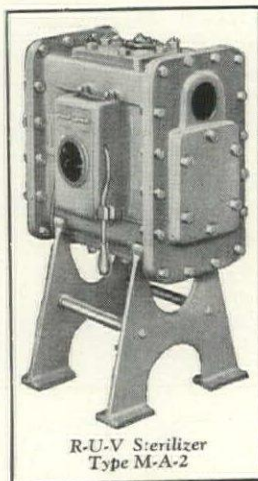
In addition, these rays set up a residual germicidal action that

keeps the water pure after it is in the pool. Tests taken in R-U-V pools show that the water with which the bathers come into actual contact is usually purer than that specified by the U. S. Treasury Department Standards as pure drinking water.

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The sterilizing operation is independent of human control and judgment. The building janitor or practically anyone can take care of the operation and maintenance with the assurance of perfect sterilization.

If you are interested in providing pure, refreshing water for the pools you design or operate—water that contains positively no biting chemicals—water that feels just as nature intended it to feel—write for our pool booklet F-22.



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Competitions in Design

1—Competition for street traffic signal tower and traffic signal standard designs, and street lighting standard designs, including street name signs.

2—Competition for filling station designs.

for

BISCAYNE BOULEVARD Miami, Florida

Conducted by BISCAYNE BOULEVARD ASSOCIATION
BENNETT, PARSONS and FROST, *Professional Advisers*

These competitions are approved by the American Institute of Architects.

[Note: The electrical and mechanical equipment of the
above structures is not a part of these competitions.]

COMPETITIONS CLOSE 6 P.M. OCTOBER 1, 1926



Miami Harbor and Skyline of the lower portion of Biscayne Boulevard, taken from the new Causeway (Venetian Way) to Miami Beach and showing the Thirteenth Street Causeway in the foreground.

These competitions are open to all who desire to offer designs of merit for the above named structures. The purpose of these competitions is, [1] to obtain designs for traffic signal towers and standards and street lighting standards to be erected on Biscayne Boulevard, Miami, Florida. [2] to develop ideas for more pleasing filling station designs and [3] to stimulate general interest in the designing of better structures pertaining to public street improvement.

Biscayne Boulevard is a 100 foot street which extends from the center of Miami northward to Northeast 55th Street [three and one-half miles]. It runs along Biscayne Bay for one mile, and about one block from the Bay for the rest of its course through a high class residential section of Miami. The south end [formerly Bay Shore Drive] is an old street recently widened and improved. The north two and one-half miles is a new street opened by cutting through fourteen improved city blocks, widening a narrow street [formerly Northeast Third Avenue] through nineteen improved blocks, and extending the street thus created through the recently divided estate of Charles Deering, into Bay Shore, a suburb of fine homes. Biscayne Boulevard here becomes the Federal Highway, which combined with the Dixie Highway, extends 360 miles to Jacksonville, Florida, and beyond to the Northern States.

Buildings are now being demolished along the new portion of Biscayne Boulevard and this section will be opened about December 1, 1926. Already dwellings are giving way to buildings for showrooms, theatres, offices, restaurants and first class shops.

Being a main artery of through traffic, a system of traffic signals will be required, lighting will be made a feature, and the demand for filling stations along the northern section of the Boulevard must be taken into consideration.

The Biscayne Boulevard Association is anxious that such structures shall be well designed so as to add to the beauty of the Boulevard. The Association, representing more than 80 per cent of the property, is desirous to control in a measure the architecture and the uses of the street. With the cooperation of the City of Miami and the City Planning Board, Royal Palms will be planted the entire length of Biscayne Boulevard.

Any competitor may submit designs for one or both competitions. The awards will be made separately.

The Biscayne Boulevard Association agrees to award to the winners within 5 days after the judgment of the jury, \$4,650.00 in prizes as itemized below.

Competition No. 1

1st. Prize	\$1,000.00
2nd. "	600.00
3rd. "	400.00
4th. "	200.00
6 Mentions, each. . .	75.00

LIST OF PRIZES

Competition No. 2

1st. Prize	\$750.00
2nd. "	400.00
3rd. "	250.00
4th. "	150.00
6 Mentions, each. . .	75.00

Program of the Competitions may be obtained by addressing Harry T. Frost, in care of:
—Biscayne Boulevard Association, Columbus Hotel, Biscayne Boulevard, Miami, Florida.
or—American Architect, 239 West 39th Street, New York
or—Bennett, Parsons and Frost, 80 East Jackson Boulevard, Chicago.

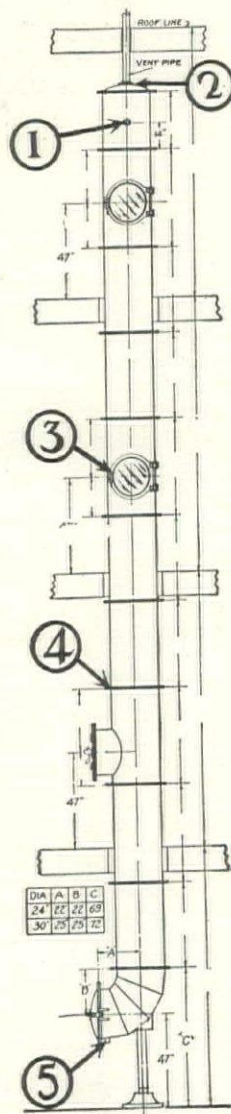
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—include the following:

- Queen of Angels Hospital
Los Angeles —1 chute
- Flower Hospital
Toledo, Ohio —1 chute
- St. Vincent's Hospital
Los Angeles —1 chute
- Northwestern Hospital
Minneapolis —2 chutes

The drawing at the right is taken from our booklet giving complete details. Referring to diagram:

1. 1½" pipe bushing for connection to water service pipe. This is for flushing the chute and keeping it sanitary.
2. 3" coupling for ventilator pipe.
3. German silver door fitted with plate or polished wire glass—this is the only part of chute which shows on each floor.
4. Special "Pfaudlerite" Gasket for each joint.
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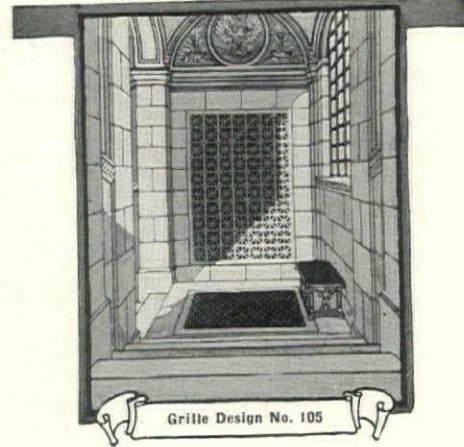


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Including
Acoustics of Auditoriums and Soundproofing of Rooms

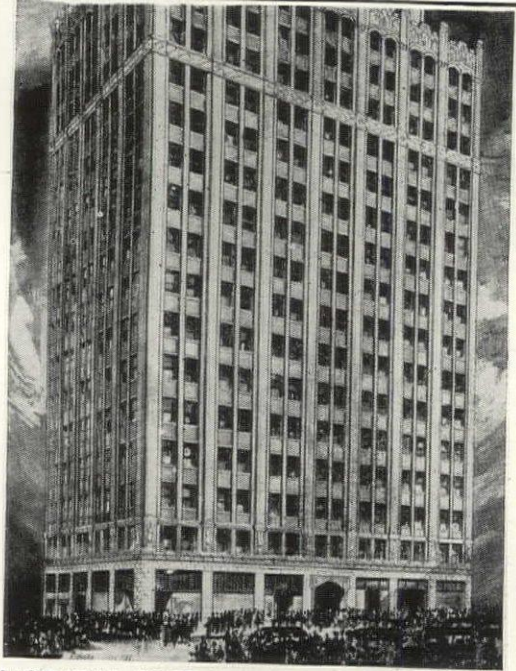
By
F. R. WATSON
Professor of Experimental Physics, University of Illinois

¶ 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. ¶ In this volume, mathematical formulæ and theory have been minimized, but the results of experimental tests are set forth in considerable detail. Formulæ which are needed for calculating acoustic effects are illustrated by numerical examples and curves. ¶ The publication of this book was made necessary because of the repeated requests made by architects and builders for help in the correction of acoustic difficulties found in many buildings. Information is also needed about the construction necessary to avoid these defects in new buildings. ¶ As the scientific publications on the subject deal with special topics in more or less general terms, an extensive study is required before practical applications can be made with any degree of confidence. ¶ The existing knowledge of the acoustics of buildings is incomplete in many respects, with the result that a number of misleading ideas have grown up to explain the phenomena. ¶ The book is divided into two main divisions, 'Acoustics of Auditoriums' and 'Soundproofing of Rooms.'

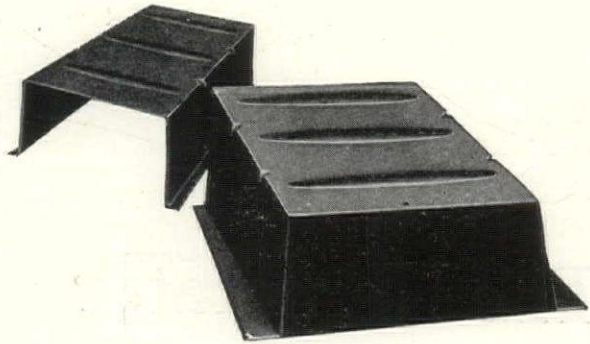
152 pages; 6 by 9 inches; 72 figures. Cloth,
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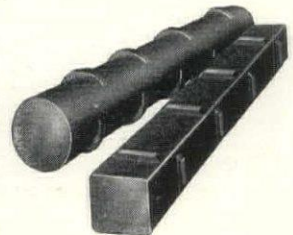


"Better Plastering" on 20,000 Sq. Yds. of Ceco 3.4 lb. "Quality" metal lath hold plaster tightly and permanently to the ceilings of this new office building. This style of Ceco Lath is a flat, diamond meshed expanded metal lath.

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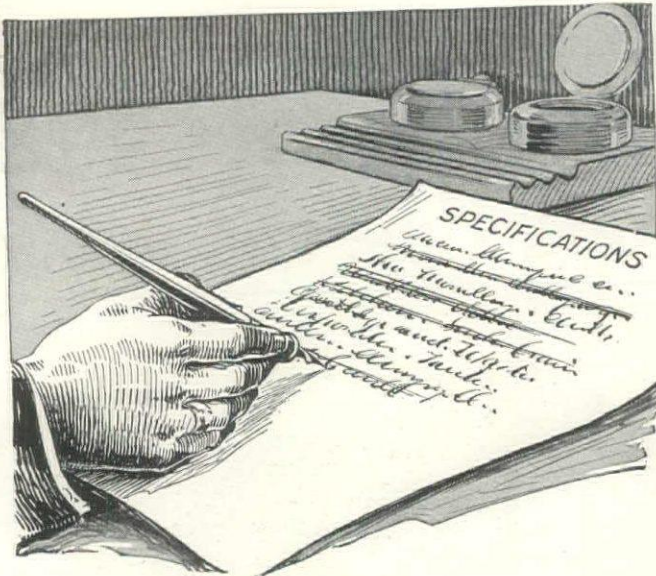
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YOU'VE gone through the "cost paring" process time and again. Your client demands certain things. You add others which are indispensable. The resulting total cost is too high. Then comes the "paring" — eliminating this and that to reduce costs.



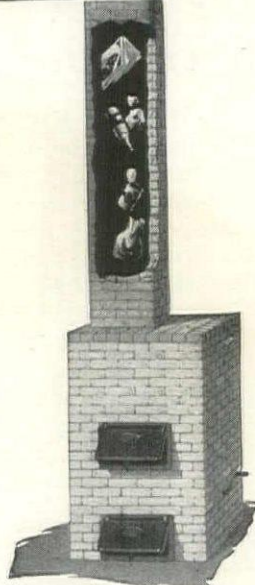
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See Sweet's (1925), pages 2800-01. For additional information, phone your local Kernerator representative or write—

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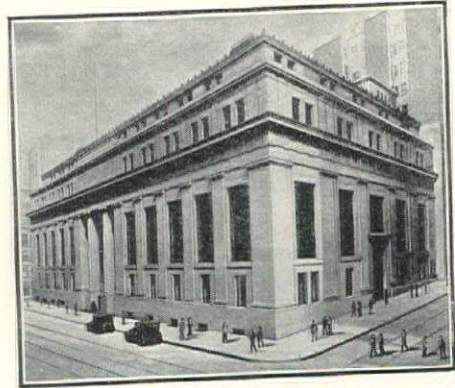
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MELLON NATIONAL BANK, PITTSBURGH
Architects: Trowbridge & Livingston
E. P. Mellon, Associated

IN the foremost rank among modern bank buildings is that of the Mellon National Bank, Pittsburgh. For a structure of such importance it is necessary that every detail of equipment be of the best, the most economical and the most efficient that can be had,—hence the use of the central vacuum cleaning system manufactured by The Spencer Turbine Company.

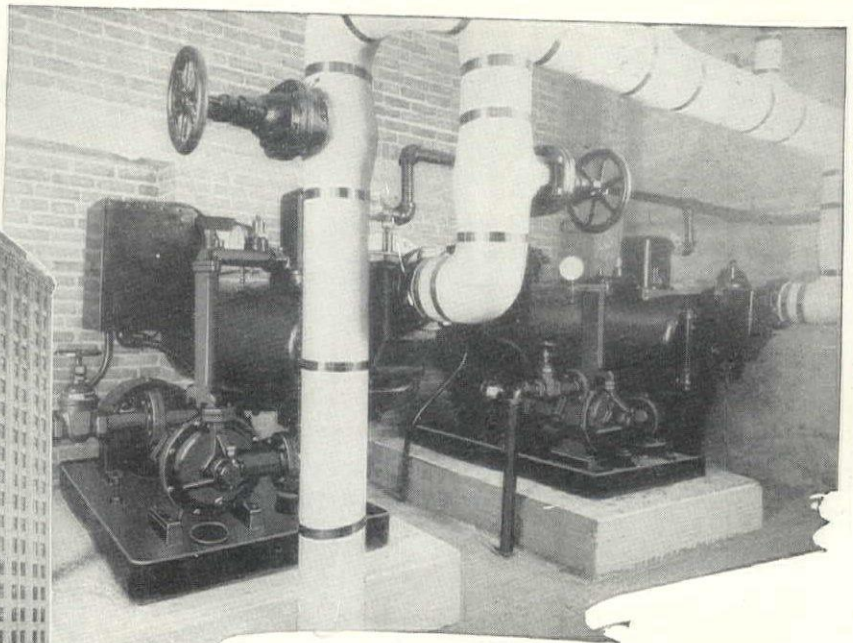
Among other recent installations there are many in important buildings of different types,—banks, hotels, office buildings, schools, theaters, clubs and dormitories, at colleges and universities, hospitals and other institutions, all those being structures in which only the strongest and most durable equipment is equal to the requirements.

SPENCER TURBINE CO.
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SPENCER
CENTRAL
CLEANING
SYSTEMS



This is the new Bank Building of the Brotherhood of Locomotive Engineers, Cleveland, Ohio. Mr. R. G. Nairn, Engineer of Construction, Cleveland, Ohio.



Two motor-driven Jennings Vacuum Pumps with automatic control, installed in the new B. of L. E. Bank Building, Cleveland, Ohio. These units serve 92,000 sq. ft. equivalent direct radiation.

Jennings—a logical choice for this up-to-date plant

Starting in 1920 with modest quarters, the labor bank of the Brotherhood of Locomotive Engineers, Cleveland, grew so rapidly that by 1925 larger facilities became necessary. As a result, the new 19-floor bank and office building, shown above, was planned and built.

This building is up-to-date in every respect. Only the most improved equipment is installed for providing light, heat and power.

For removing the condensate and air from the exhaust steam heating system, Jennings Pumps were a logical choice. For in the many years they have been in use, Jennings Pumps have proved again and again that they can always

be depended on for efficient trouble-free performance—the kind of performance that is indispensable in getting the best results in cooperation with other high grade equipment in the plant.

For complete information on Jennings Pumps and the uses for which they are recommended, write for our illustrated bulletins.

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Supplied in
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IN Designing Young Centrifugal Vacuum and Boiler Feed Pumps to maintain a standard discharge pressure of 20 pounds at the pump, we have made it possible to return water to the boiler at all times.

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necessity for a pump with a standard pressure of at least 20 pounds at the pump.

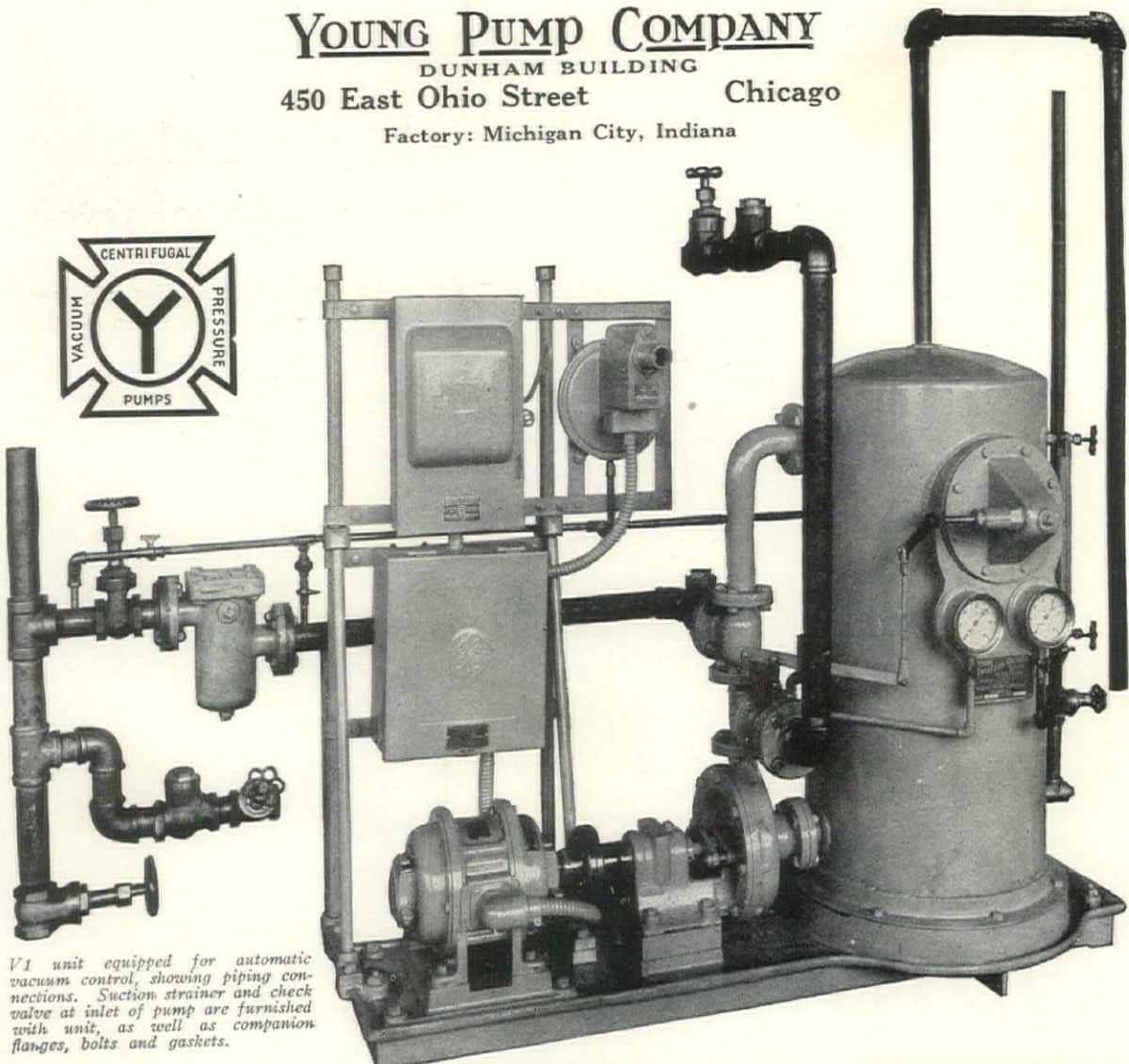
There are seven capacities in which the Young Pumps are supplied, ranging from 5,000 to 100,000 square feet of direct radiation, and all of these are built to discharge against this standard 20 pound pressure. Special pumps with a discharge pressure of 35 pounds also may be furnished with same unit numbers, if desired. Both standard and special units are furnished for continuous or automatic operation.

YOUNG PUMP COMPANY

DUNHAM BUILDING

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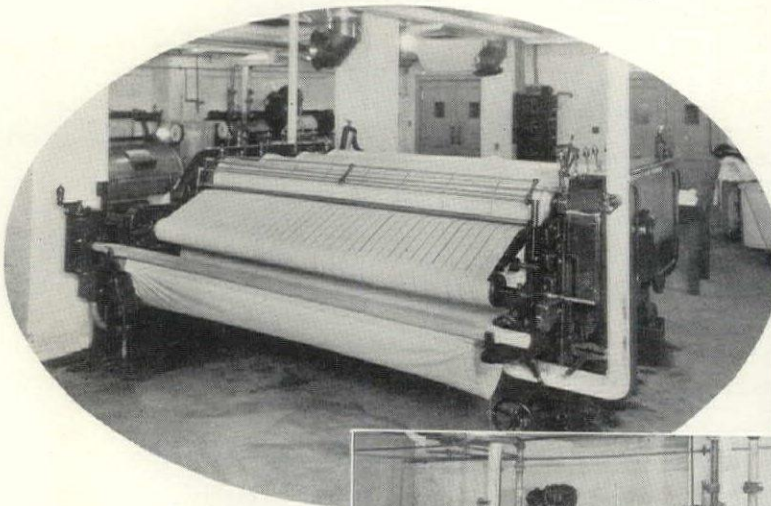
Factory: Michigan City, Indiana



V1 unit equipped for automatic vacuum control, showing piping connections. Suction strainer and check valve at inlet of pump are furnished with unit, as well as companion flanges, bolts and gaskets.

No. 23 of a series of advertisements featuring prominent laundry installations

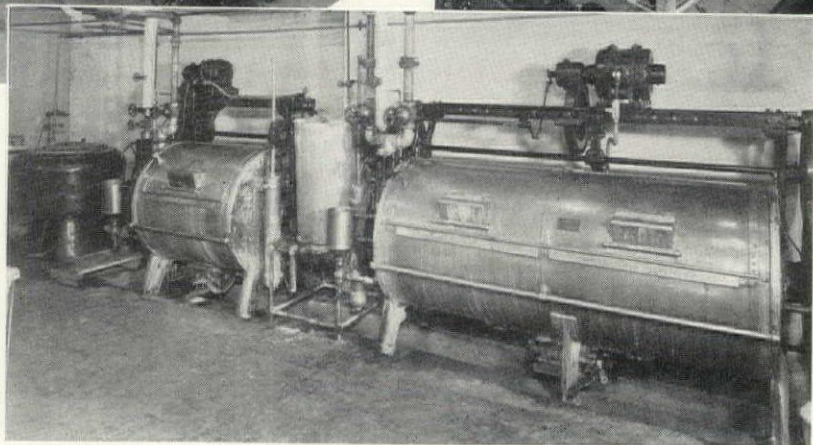
The Jonathan Club, Los Angeles, Cal.
Architects—Schultz and Weaver,
New York City



The American Flat Work Ironer, on which all flat work for the Jonathan Club is quickly and neatly ironed.



The American Monel Metal Cascade Washers and Underdriven Extractor in the Jonathan Club laundry. Note the small amount of floor space occupied by this complete washroom.



Planned from the start

—a complete "American" Laundry for the Jonathan Club, Los Angeles

AT the very outset, in discussing plans for their handsome new building, officials of the Jonathan Club, Los Angeles, decided upon a laundry department—for they knew that a laundry within the building, itself, is an absolute necessity where high standards of club service are to be maintained.

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napery, fresh, clean bedroom linens—as well as the ease and speed with which soiled articles are cleaned and returned to service.

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The American Laundry Machinery Company maintains a corps of engineers who have gained wide experience in planning and equipping most of this country's foremost hotel, commercial and institutional laundries. If you have any questions pertaining to modern laundry practice, you will find consultation with these specialists advantageous. This service is gladly offered to you, without obligating you in any way.

The American Laundry Machinery Company

Norwood Station, Cincinnati, Ohio

THE CANADIAN LAUNDRY MACHINERY CO., LTD.
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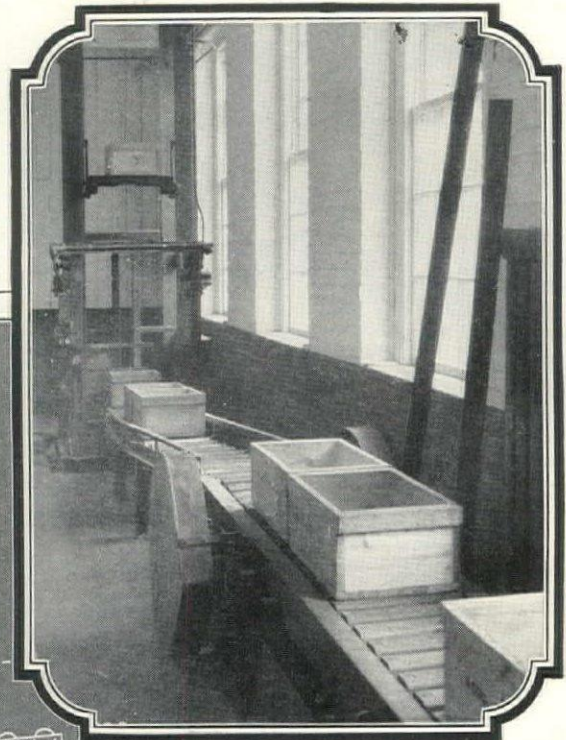
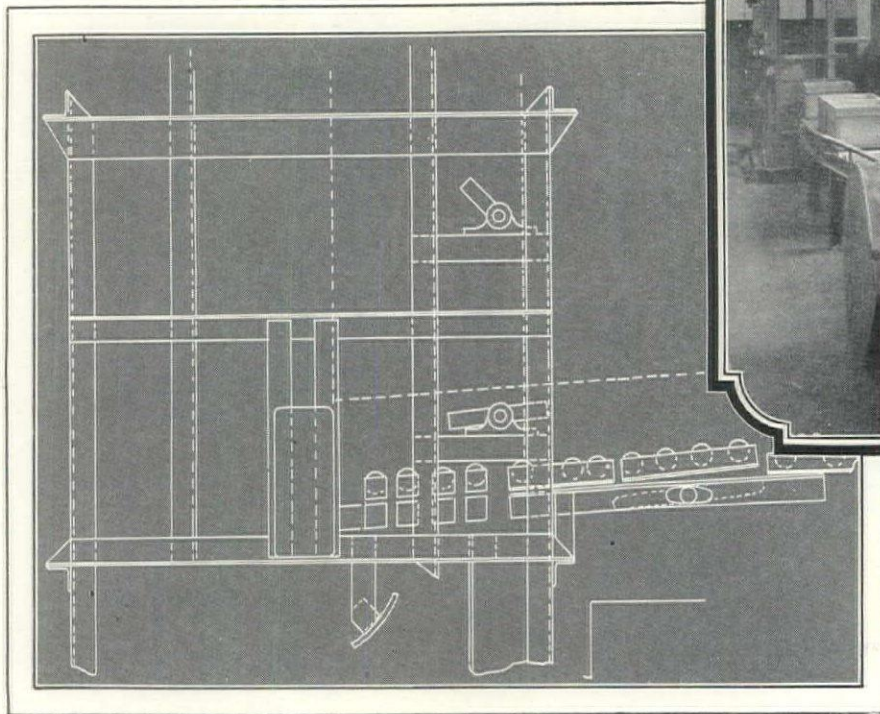
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Standard Gravity Roller Conveying Systems are especially adapted to solving conveying conditions in machine shops and plants. We would like to tell you about some of the conveying jobs performed with Standard Roller Conveying Systems.

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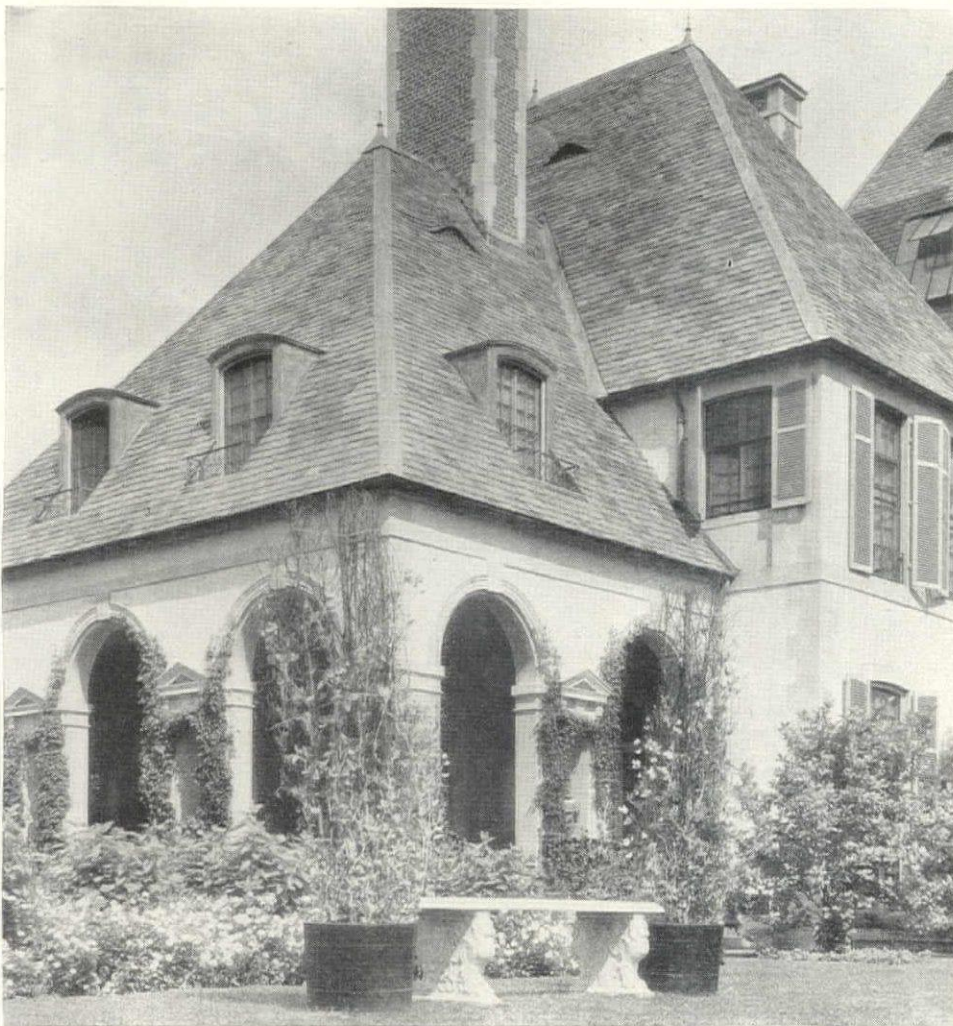
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ROOF TILE

Made by the United States Gypsum Co.



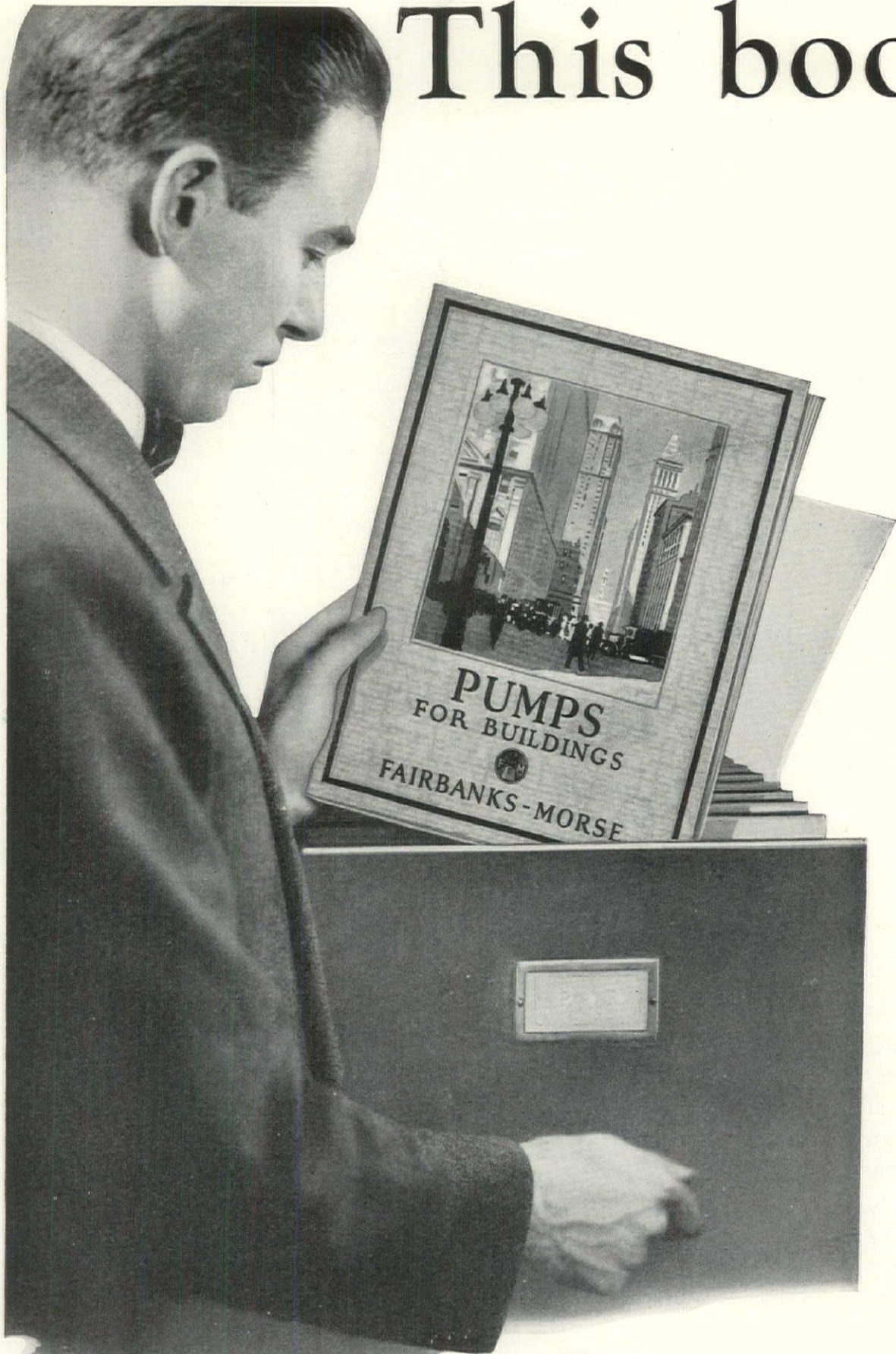
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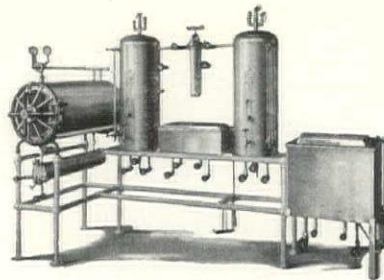
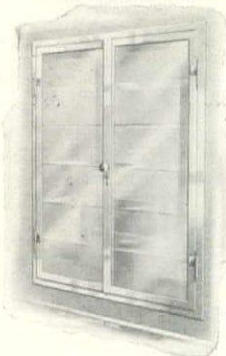
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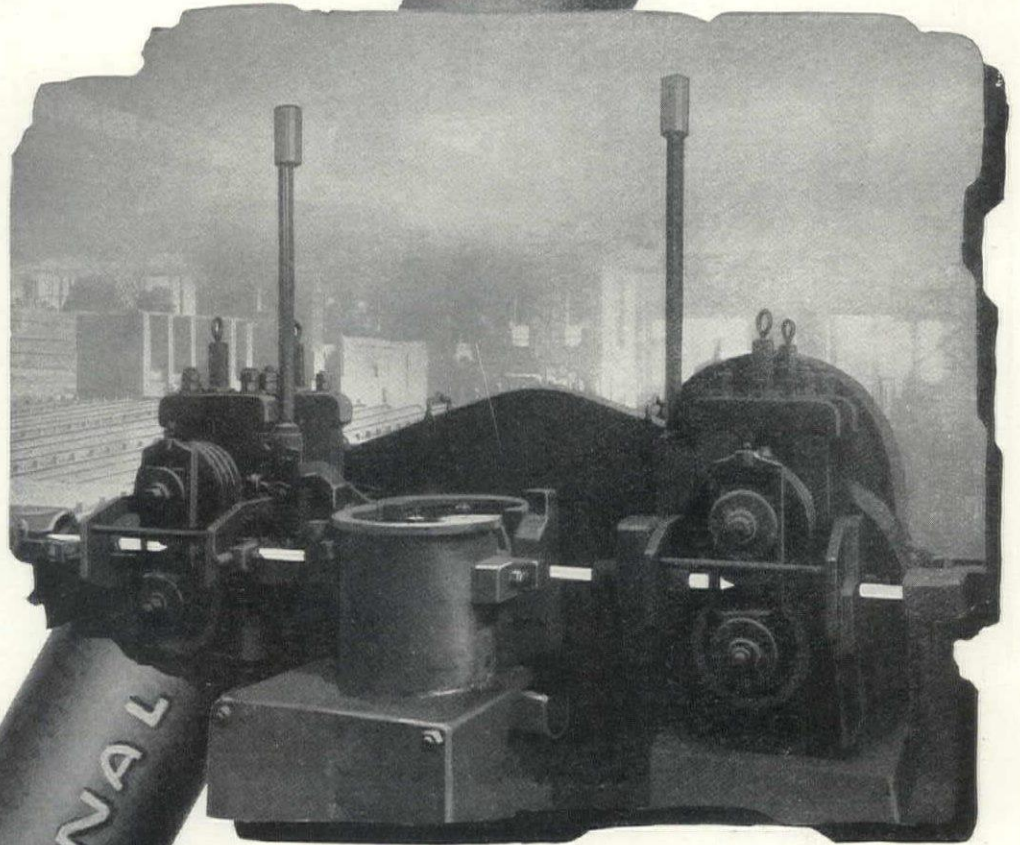
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SCALE FREE Pipe is not manufactured by ordinary pipe-making methods but by a special process. This process was invented and developed by National Tube Company and requires special patented machinery. A series of specially designed rolls is used in addition to the regular rolling equipment, and the temperature at which the pipe reaches these special rolls must be carefully controlled in order that the full effect of their working may be secured.

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NATIONAL PRODUCTS



National Metal

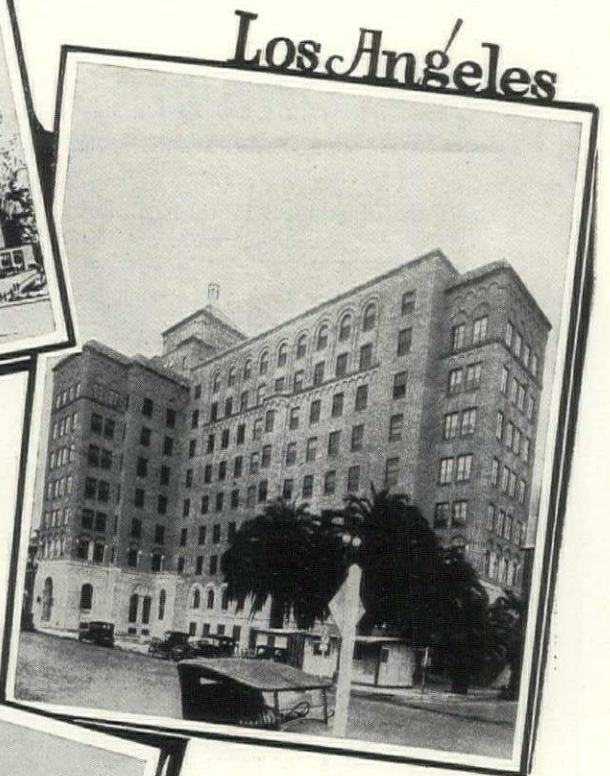
The National Wiring System ~ FOR SAFETY *And* PERMANENCE ~

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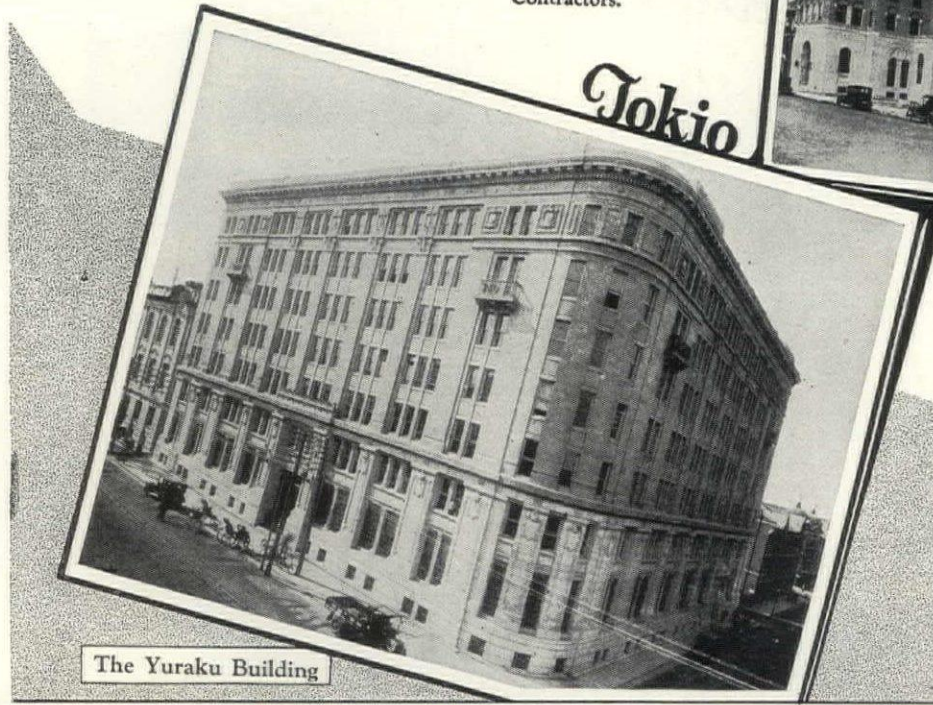
AND ENAMELED FOR SAFE PERMANENT WIRING



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Watrous Flush Valves—Duojet Closets—Self-Closing Basin Cocks—Combination Lavatory Fixtures—Pop-Up Wastes—Liquid Soap Fixtures—etc.

THE IMPERIAL BRASS MFG. CO.

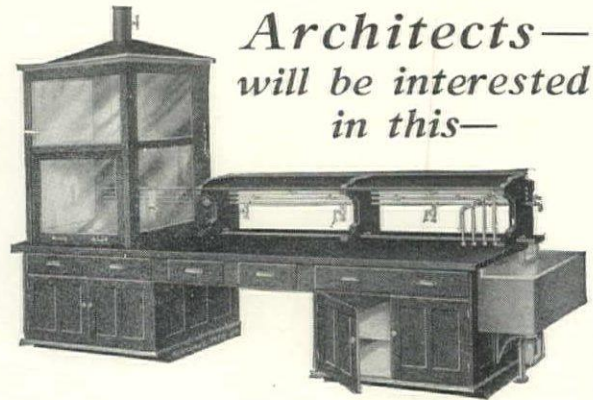
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Section of Outside Wall of House, Showing Wool Between Studding

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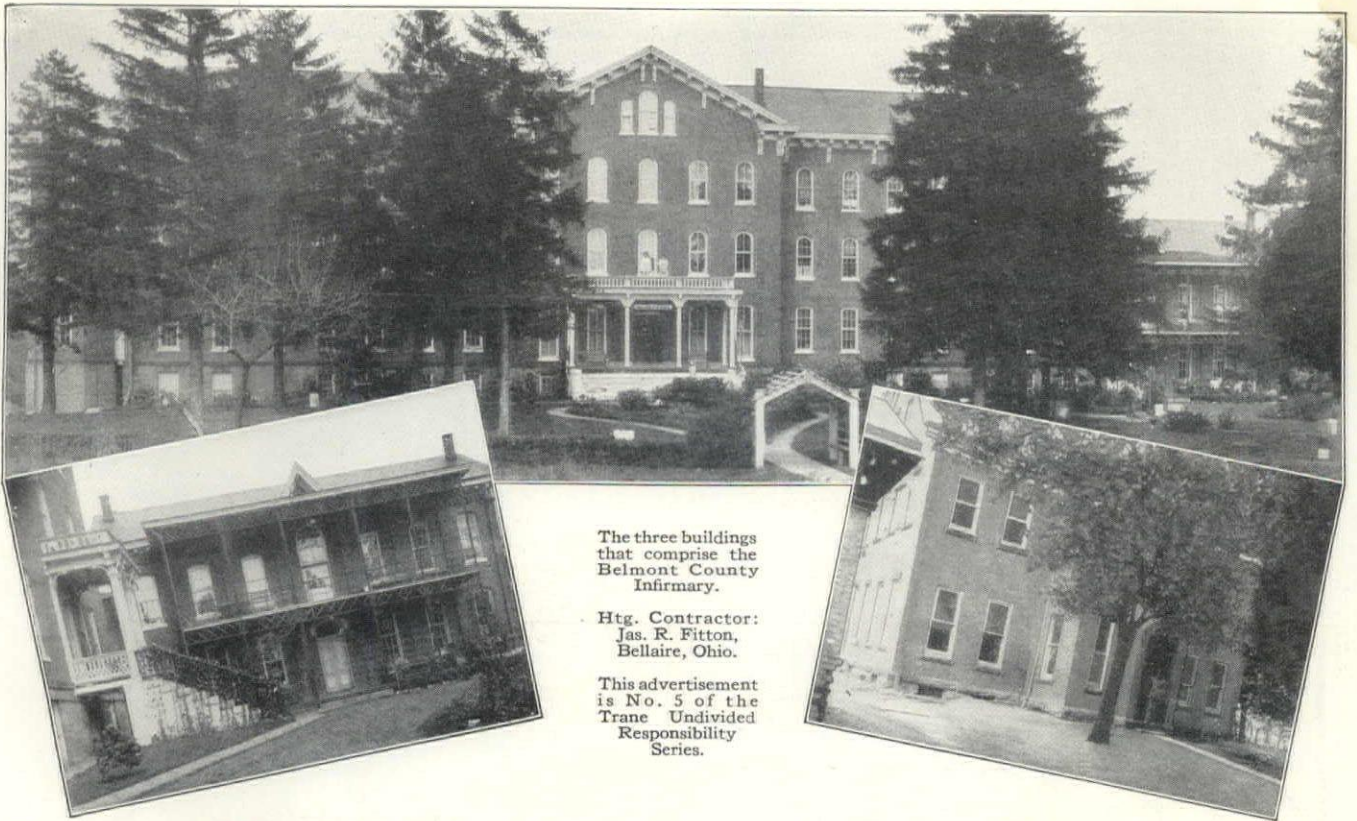
Mineral Wool makes life-long friends of all its users. If you are skeptical as to its power, let us demonstrate. We can prove all claims. Write us today.

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Section of Sound-Proof and Fire-Proof Partition



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Htg. Contractor: Jas. R. Fitton, Bellaire, Ohio.

This advertisement is No. 5 of the Trane Undivided Responsibility Series.

Trane Undivided Responsibility Heating in 50-year-old Belmont County, Ohio, Infirmary

This installation has the equivalent of 15,000 sq. ft. of radiation, taken care of by three cast iron boilers having a total of 27,000 sq. ft. The piping is arranged so that by opening or closing a few valves the system can be operated as a vacuum system using the Trane Return Line Duplex pumps, or it can be operated as a vapor system using Trane Direct Return Traps. The pumps have a rated capacity of 12,000 sq. ft. each. 175 Trane Bellows Traps, and 155 Trane Valves are used. The three buildings in this group are connected with the boilerhouse by tunnels, the farthest radiator being 500 ft. by pipe line from the boilers.

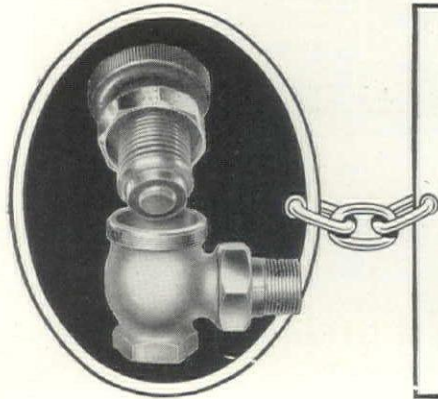
Mr. Fitton, the contractor, received the following letter from the commissioners of Belmont Co.:

"We desire to advise you that the Trane System installed in the Belmont County Home is certainly 100% perfect and is doing everything that you and the Heating Engineer claimed for it. We have no hesitation in recommending either the system or you as the heating contractor who installed it to any who are interested in getting the best."

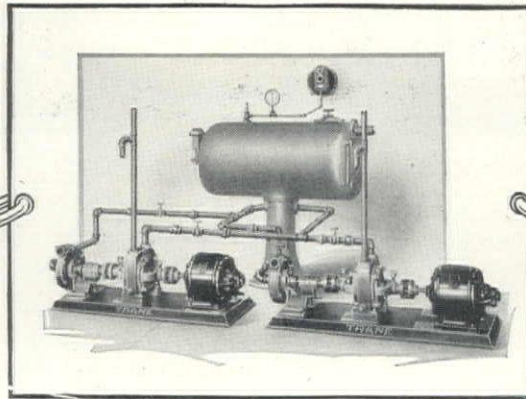
Mr. Fitton also received a letter from Supt. Moon of the Infirmary, telling of the satisfactory, economical, and efficient service by the system, and closing by saying "I can recommend this system as the best for we have three warm buildings and no worry."

This freedom from worry is one of the nicest things about Trane Undivided Responsibility Heating. Let us tell you more.

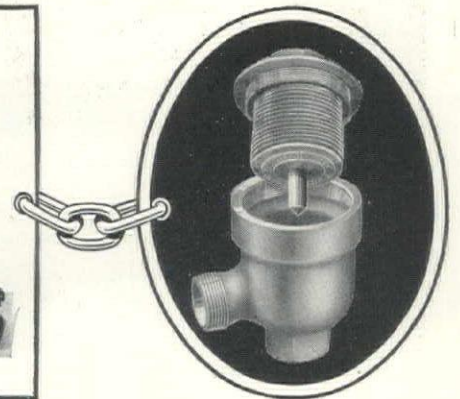
The Trane Company, 220 Cameron Ave., La Crosse, Wis., manufacturers of vapor and vacuum heating specialties and pumps. Branches and sales connections at New York, Chicago, Boston, Cincinnati, Newark, Philadelphia, Buffalo, Cleveland, Detroit, Seattle, Los Angeles, Albany, Minneapolis, Salt Lake City, Greensboro, N. C., Zanesville, Ohio, Tampa, Fla., Baltimore, Md., Des Moines, Ia., New Haven, Conn., Sheboygan, Wis., Kansas City, Mo. In England: 22-23 Clerkenwell Close, London, E. C. 1. In Canada: The Trane Co., 21-23 River St., Toronto, 2; Thomas Robertson & Co., 134 Craig St. West, Montreal; F. S. Murdoch, 310 Breadalbane, Winnipeg; A. B. Madden, 48 Sparks St., Ottawa. In China: C. J. Doughty & Co., 7 Jinkee Road, Shanghai.



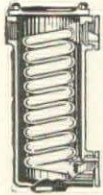
Trane Bellows-Packless Valve



Trane Duplex Return Line Vacuum Pump



Trane Bellows Radiator Trap



Single coil heaters from 30 to 120 gal. capacity. Double coil heaters from 160 to 400 gal. Triple coil heaters, 600 to 800 gal.

EXCELSO COSTS LITTLE TO OPERATE

Never Burns Out

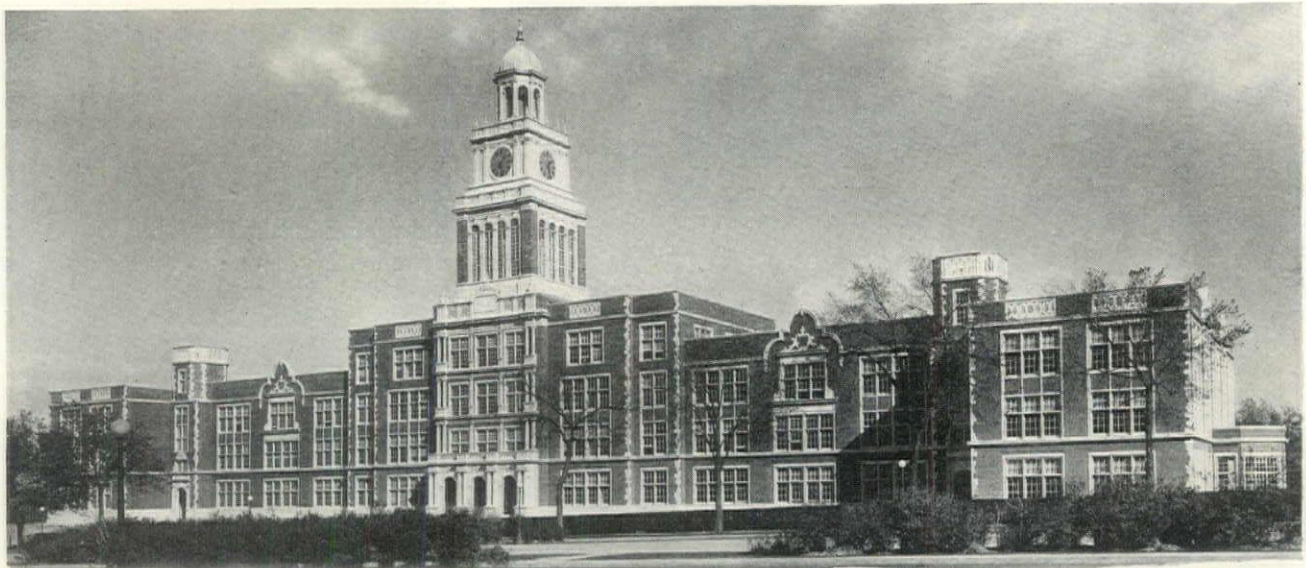
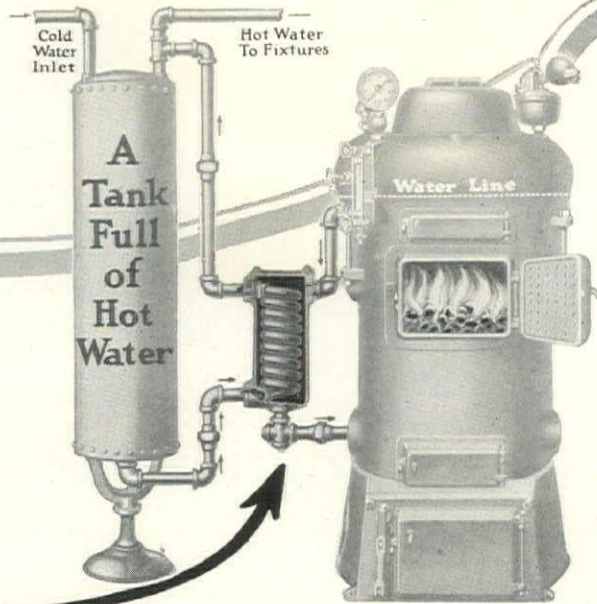
NEARLY 350,000 Excelso Indirect Heaters supply hot water in homes, office buildings, apartments, hotels and buildings of all types and sizes. Easily connected to heating plant and when once installed gives lasting satisfaction.

Write for installation literature

Excelso Specialty Works, Inc.
69 Clyde Ave. Buffalo, N.Y.

District Representatives:
210 E. 45th Street New York, N.Y.
5930 Haverford Ave., Philadelphia, Pa.
32 Olive St., Boston, Mass.

Nationally Distributed by Leading Wholesalers and Boiler and Radiator Manufacturers.



East High School of Denver

George H. Williamson, Architect

Combining all the properties necessary and desirable for acid drain pipe, Duriron alone may be specified with the assurance that it will last as long as the structure, wholly eliminating repairs and replacements under any conditions.

The paid-up insurance that Duriron drain pipe provides caused its specification from the laboratories of Denver's East High School, and over a thousand others during the past five years. It is guaranteed, and doesn't need the guarantee.

Duriron is produced only by
The DURIRON COMPANY
DAYTON · OHIO

Our Guarantee

The Trenton Potteries Company makes but one grade of ware—the best that we can produce—and sells it at reasonable prices. We sell no seconds or culls.

Our ware is guaranteed to be equal in quality and durability to any sanitary ware made in the world.

The Te-pe-co Trade Mark is found on all goods manufactured by this company and is your guarantee that you have received what you paid for.



THE TRENTON POTTERIES COMPANY

Trenton, New Jersey, U. S. A.

NEW YORK

BOSTON

PHILADELPHIA

SAN FRANCISCO

There's No End To the Economy of



Evernu Hard Rubber Seats are everlasting.

The repairs and replacements you don't have will represent a considerable saving. Year after year that saving will accumulate. It will go on accumulating long after the initial cost has been returned. It will go on, in fact, until the building has seen its day and is razed. Even then the seats could probably be used in another building. And this will surprise you: superior as they are, Evernu Seats cost no more than other seats.

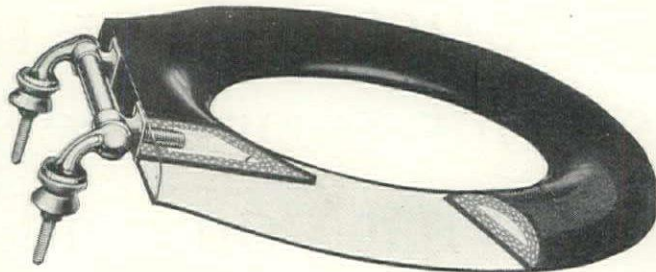
Condensed specifications will be found in Sweet's. Complete specifications are given in the new Evernu Catalog, which should be in your file.

THE NEVER SPLIT SEAT COMPANY
Dept. 128, Evansville, Indiana, U. S. A.
Founded 1905
The Largest Manufacturers of Toilet Seats in the World

Representatives in the U. S.

- | | | |
|---|---|--|
| L. W. Jarrett, 48 East 41st St.,
New York City, N. Y. | F. C. Neupert, 330 Central Bldg.,
Seattle, Washington | M. D. Willhite, 310 Southland Life
Bldg., Dallas, Texas |
| W. T. Mayfield, American Trust
Bldg., Birmingham, Ala. | Emile Heymans, 45 Second St.,
San Francisco, Calif. | A. S. Lindeblad, 1016 Straus Bldg.,
Chicago, Ill. |
| F. F. Bulkeley, 2713 Hampshire
Road, Cleveland, Ohio | G. J. Reardon, 1027 Title Insur-
ance Bldg., Los Angeles, Calif. | R. E. Cramsie, 203 Reliance Bldg.,
Kansas City, Mo. |
| Randolph Wohltman, 33 1/2 Russell
Ave., St. Louis, Mo. | H. D. Deleher, 928 West Franklin
St., Baltimore, Md. | |

*Eagles Apartment
Hotel, Seattle,
Wash.; Henry
Bittman, Seattle,
Architect.*



Evernu is the perfect seat. The interior wall of special hard rubber of great strength and the outside surface of solid color hard rubber are vulcanized under hydraulic pressure into one lasting piece.

No finish to wear off. No joints to open up. The hollow center provides lightness with strength. The hinge is as durable as the seat.

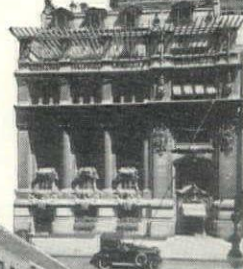


*Office Building,
John and Gold
Sts., New York
City; Buchman
& Kahn, Archi-
tects.*

*First National
Bank Youngs-
town, Ohio;
Walker & Weeks,
Architects.*



*Birmingham Athletic
Club, Birmingham,
Ala.; Warren, Knight
& Davis Architects,
Birmingham, Ala.*



*New York
Yacht Club*

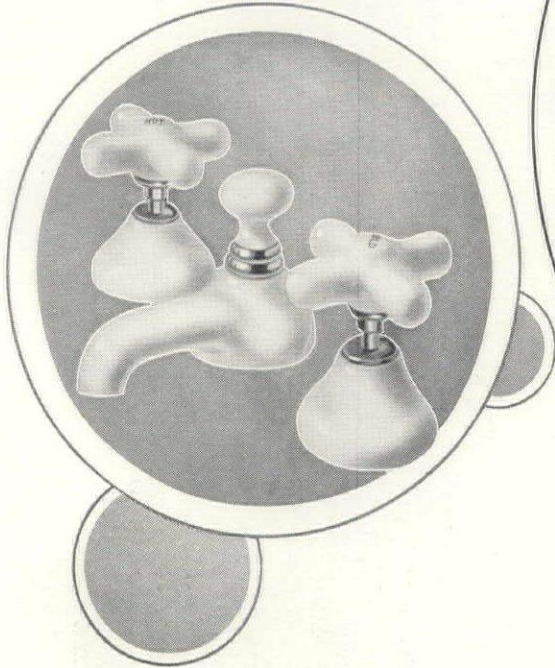


*St. Peter's Hospital, Olympia,
Wash.; John Graham, Seattle,
Architect.*

*Catholic High School, Cam-
den, N. J.; F. F. Durang,
Philadelphia Architect.*

VITAL SPOTS

—indeed
that's what they
are!



The story of Mueller Faucets and plumbing brass fittings for the *Vital Spots* of plumbing goes into the homes of 3,800,000 families every two weeks. Full-page color advertisements in The Saturday Evening Post and Liberty Magazine feature Mueller brass goods and emphasize their relation to more satisfactory plumbing systems. Watch for these advertisements. They are making it easier for you to specify better plumbing.

Indeed, that's what they are! Faucets are the *Vital Spots* of the plumbing. Every day they are subject to constant use and wear. If they give good service, they can add immensely to comfort, convenience and sanitation. But if they don't . . . What a source of annoyance and expense sputtering, leaking, ill-behaved faucets become to the owner!

People today recognize faucets as *Vital Spots* that deserve careful consideration at the time of installation. More and more, people who like to live in a modern way are acquainting themselves with the refinements in appearance and betterments in operation that distinguish *better* faucets. They are learning that the best is none too good at the *Vital Spots* of plumbing—and that to have Mueller Faucets is to have the assurance that faucet troubles are settled once and for all.

MUELLER CO. (Established 1857) Factories: Decatur, Illinois; Port Huron, Michigan
Branches: New York, San Francisco, Los Angeles Canadian Factory: MUELLER, Limited, Sarnia

MUELLER

faucets without a fault

Delmonico and Jenkins

Time has closed the doors of Delmonico's. The celebrated old restaurant exists only in the pleasant memories of hundreds of New Yorkers.

Today on the familiar site at 5th Ave. and 44th St., a 33 story modern office building is being erected in accordance with the high standards naturally to be expected of a building called by the name of Delmonico.

Jenkins Valves are part of the owners' promise that "superior service will be maintained with the latest mechanical equipment." Valves marked with the Jenkins "Diamond" will serve the Delmonico Building throughout the plumbing service, and in heating and fire protection as well.

Make sure the Jenkins "Diamond" is mentioned in your specifications. It pays to take every precaution against substitution.

Genuine Jenkins Valves are furnished for practically every valve requirement—in standard, medium and extra heavy patterns.

Delmonico Building, 5th Ave. and 44th St., New York City. H. Craig Severance, Architect; H. Hall Marshall, Consulting Engineer; James McCullagh, Inc., Plumbing Contractor; Baker, Smith & Co., Heating Contractor; G. Richard Davis & Co., Builders.



JENKINS BROS.

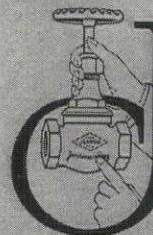
- 80 White Street.....New York, N. Y.
- 524 Atlantic Avenue.....Boston, Mass.
- 133 No. Seventh Street.....Philadelphia, Pa.
- 646 Washington Boulevard.....Chicago, Ill.

JENKINS BROS., LIMITED

- Montreal, Canada
- London, England
- BRIDGEPORT, CONN. FACTORIES: ELIZABETH, N. J. MONTREAL, CANADA



Fig. 370
Screwed, Jenkins Standard
Bronze Gate Valve



Always marked with the "Diamond"

Jenkins Valves

SINCE 1864



LONDON GUARANTEE & ACCIDENT BUILDING
Architect, A. S. ALSCHULER

WRIGLEY BUILDINGS
Architects, GRAHAM ANDERSON PROBST & WHITE

TRIBUNE TOWER
Architects, HOWELLS & HOOD; Associate, J. A. FOUILLOUX

Chicago's first permanent settler

Where Jean Baptiste Point de Sable, from San Domingo, used to paddle his birch canoe, a double-deck

had his house here

as carefully studied and considered as exterior beauty.

bascule bridge jackknives open to the flow of Great Lakes shipping. Clustered about the very spot on which in 1779 he erected the first house in Chicago—in which John Kinzie later lived—is a notable group of towering buildings.

In the spirit of the newer skyscraper architecture, each is a contribution to the City Beautiful plan of Chicago. Every detail of the equipment in the massive structures shown in the etching above was

It is especially gratifying to Crane that not only were its plumbing fixtures, valves, and fittings, selected for one of these buildings, but that all four of them were so equipped. Thus do these magnificent temples of commerce add their endorsement to the impressive roll of Crane installations. Perhaps your own next construction would worthily augment the list. Specify Crane plumbing and heating materials for initial appearance, minimum upkeep, long-lasting dependability, and final economy.

CRANE

Address all inquiries to Crane Co., Chicago

GENERAL OFFICES: CRANE BUILDING, 836 S. MICHIGAN AVENUE, CHICAGO

Branches and Sales Offices in One Hundred and Fifty-five Cities

National Exhibit Rooms: Chicago, New York, Atlantic City, San Francisco and Montreal

Works: Chicago, Bridgeport, Birmingham, Chattanooga, Trenton, Montreal and St. Johns, Que.

CRANE EXPORT CORPORATION: NEW YORK, SAN FRANCISCO, MEXICO CITY, HAVANA

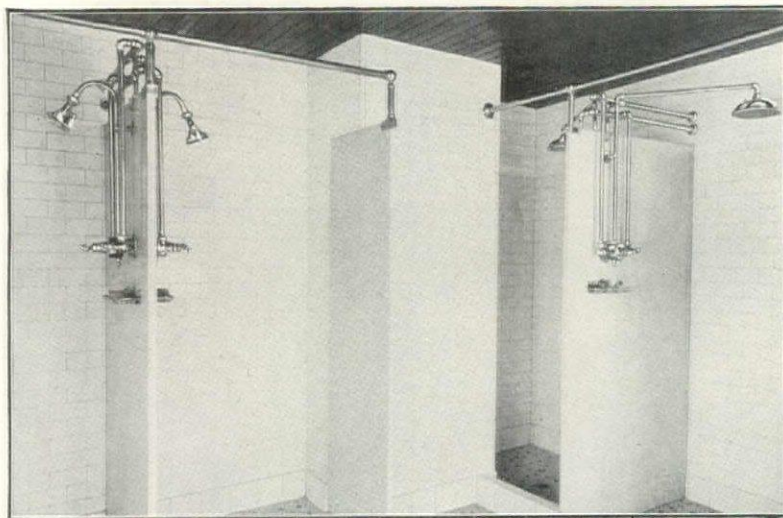
CRANE LIMITED: CRANE BUILDING, 386 BEAVER HALL SQUARE, MONTREAL

CRANE-BENNETT, LTD., LONDON

CRANE: PARIS, BRUSSELS

SHOWERS

Especially Designed for Golf and Country Club Installations

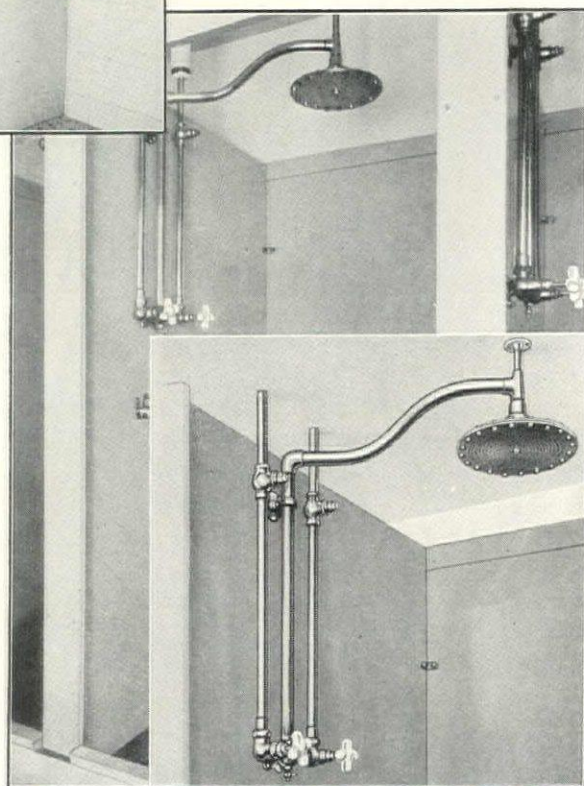


*Speakman Shower Installation in the
Brinton Lake Club*

THERE are several types of SPEAKMAN Showers which can be used for this purpose. The Brinton Lake Club near West Chester, Pa., uses the regular SPEAKMAN H-895 Mixometer Shower with Anyforce Head—placing both temperature and force of the shower under instant control. Both angle and overhead showers are part of this installation which is shown on the left.

However, the Golf and Country Club Shower which is growing in popularity very fast, is shown at the right. The illustration was made from a photograph taken in the Manufacturers' Country Club near Philadelphia. They have several of these showers in this club. The valves are $\frac{3}{4}$ inch and the head twelve inches across and contains 666 holes.

We'll be glad to give you the complete specifications of the showers and stalls; also if you wish we'll send you our shower and fixture catalog made up for your files, A.I.A. Classification 29H3.



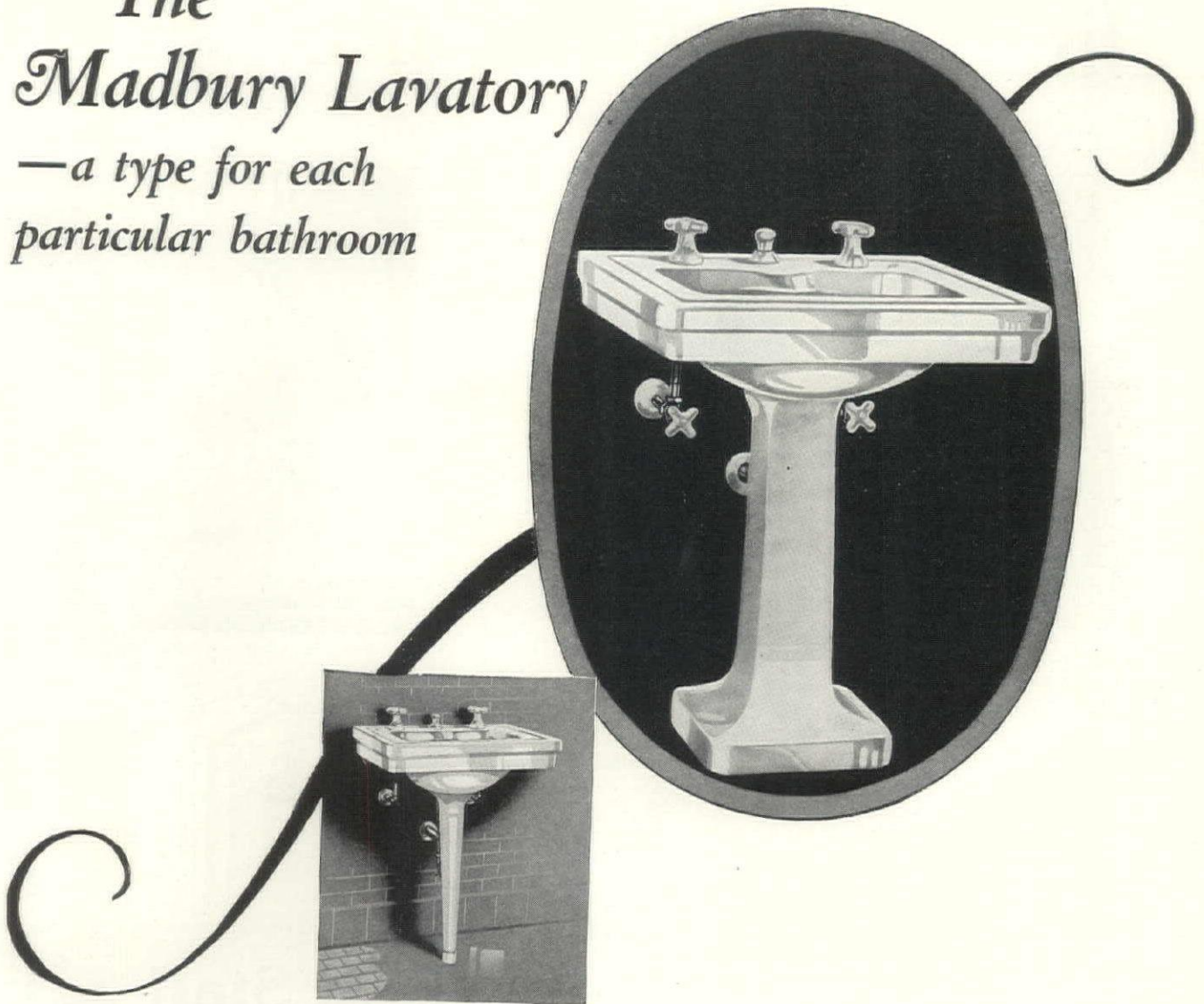
In the Manufacturers' Country Club

SPEAKMAN COMPANY
Wilmington — Delaware

SPEAKMAN SHOWERS
and FIXTURES

The Madbury Lavatory

—a type for each particular bathroom



THE Maddock "Madbury" Lavatory of Durock is the last word in beauty, convenience, cleanliness and durability.

The larger illustration shows the pedestal style; the smaller, the leg style. Both are identical in every detail except the method of support.

Because the leg style costs less to manufacture, it may be furnished at a somewhat lower price than the pedestal style; also it may be supplied, if desired, in a smaller size.

Both styles are made of all white Durock, including trimmings. Durock will not chip, crack, craze nor discolor.

The "Madbury" is the only lavatory made with a self-cleansing overflow, insuring complete sanitation. Hot and cold water, mixed to any desired temperature, is directed to the center of bowl in a single stream. There is a large square bowl with anti-splash rim.

Durock lavatories remain new indefinitely. They can always be kept spotlessly clean by merely wiping with a damp cloth.

Write us for as many copies as you can use of our booklet, "Maddock Bathrooms". They will help you "sell" clients on quality fixtures, and make them more appreciative of such fixtures when recommended. There will be no charge for the booklets.

THOMAS MADDOCK'S SONS COMPANY
 Oldest Sanitary Potters in America
 Trenton, N. J.

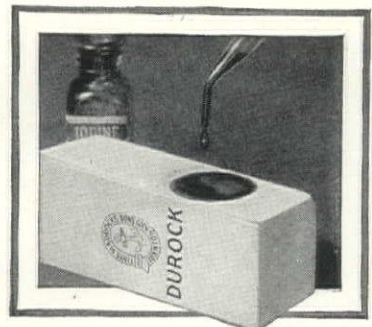
MADDOCK

DUROCK Bathroom Equipment

DUROCK

the perfect material for bathroom equipment

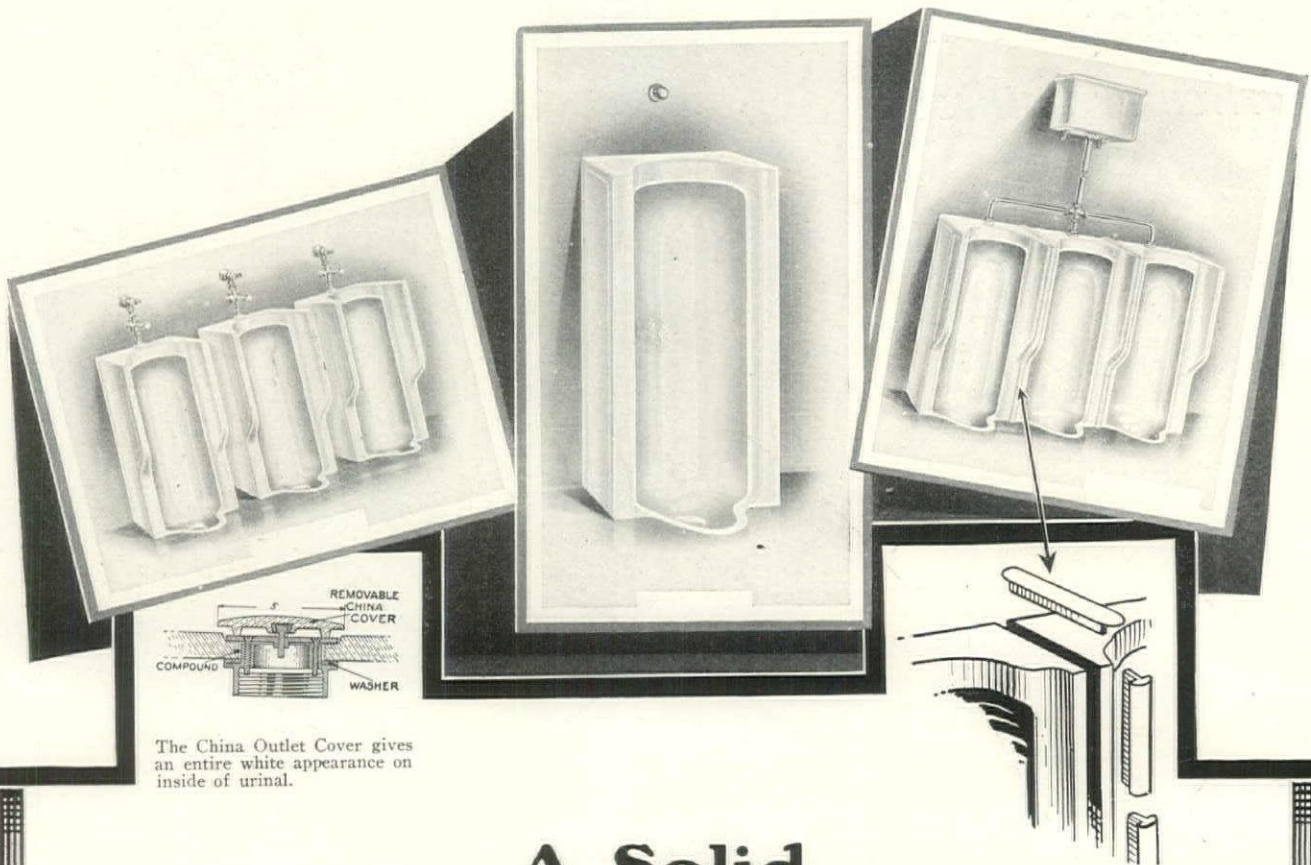
is stain proof



IODINE is often dropped on the lavatory basin. It will leave an indelible stain on ordinary coated ware but can be readily wiped off of a Durock lavatory.

Durock cannot be stained.

A fixture you will eventually specify



The China Outlet Cover gives an entire white appearance on inside of urinal.

A Solid Vitreous China Urinal Stall

Guaranteed not to Craze

While vitreous china has long been regarded as the ideal material for sanitary plumbing fixtures, its use in the construction of urinal stalls is of comparatively recent date. In fact, until made by Douglas, the production in vitreous china of so large a fixture as a urinal stall was thought to be practically impossible.

Douglas Urinal Stalls are the **ONLY FULL-SIZED SOLID VITREOUS CHINA URINAL STALLS** made — the result of intensive study and experimenting. They are of the same high quality materials and workmanship that have distinguished all Douglas products.

The superiority of vitreous china over other materials being well known, the advantages of Douglas Urinals will be apparent to everyone specifying and installing sanitary plumbing fixtures. However, when writing the specifications for your next job where urinals are included, bear in mind that Douglas Vitreous China Urinal Stalls will not crack, craze, or discolor—that they are absolutely impervious—that they are easy to clean and keep clean—assuring the utmost in service and satisfaction.



THE JOHN DOUGLAS COMPANY

Makers of High-Grade Plumbing Fixtures
CINCINNATI, OHIO



A typical installation of Visible Heat Cabinets. These cabinets are available in a wide range of sizes and styles.

Trane Heat Cabinets

Trane Heat Cabinets take the place of radiators. They were invented by Reuben N. Trane and developed and perfected in the Trane Engineering Laboratories to meet the demand for an improved method of distributing heat.

The Heat Cabinet is a new application of convection heating. In effect, the heat is bottled up in the Cabinet and is released only in sufficient quantities to care for the demand. The Cabinet gives heat instantly when desired, or by merely adjusting a damper it can be turned off so that no heat units escape to the room.

As shown by the illustration above, a Heat Cabinet looks somewhat like a radiator enclosure. The principle of operation and the features of the Heat Cabinet, however, are vastly different than those of enclosed radiators.

Heat Cabinet deliveries start in September. Orders received now will be acknowledged with approximate shipping date. Prompt delivery is assured on orders that come in early.

All heating systems that use Heat Cabinets are known as Cabinet Heating Systems. Cabinet Heating can be used in connection with regular steam, vapor, vacuum, or hot water heating equipment. No special design is necessary. No special heating system is necessary. The Cabinets are easily installed on any job where radiators could be used, or where radiators are used at present.

Their many good points are discussed at length in the pages of the Trane Heat Cabinet Catalog—their pleasing appearance, their light weight, their moderate cost, and above all, the perfect heat control that is made possible by the Heat Cabinet principle.

If you haven't received your copy of this catalog, write for it.

The Trane Company, 220 Cameron Ave., La Crosse, Wis., manufacturers of vapor and vacuum heating specialties and pumps. Branches and sales connections at New York, Chicago, Boston, Cincinnati, Newark, Philadelphia, Buffalo, Cleveland, Detroit, Seattle, Los Angeles, Albany, Minneapolis, Salt Lake City, Greensboro, N. C., Zanesville, Ohio, Tampa, Fla., Baltimore, Md., Des Moines, Ia., New Haven, Conn., Sheboygan, Wis., Kansas City, Mo. In England: 22-23 Clerkenwell Close, London, E. C. 1. In Canada: The Trane Co., 21-23 River St., Toronto, 2; Thomas Robertson & Co., 134 Craig St., West, Montreal; F. S. Murdoch, 310 Breadalbane, Winnipeg; A. B. Madden, 48 Sparks St., Ottawa. In China: C. J. Doughty & Co., 7 Jimkee Road, Shanghai.

Reviews of Manufacturers' Publications

FEDERAL CEMENT TILE CO., Chicago. "The Roof for Permanence." A booklet on an important subject.

Interest of architects in roofing materials is never ending, particularly in those materials which by reason of their nature last forever. This booklet is issued to inform architects and builders regarding Federal Cement Tile, a material which while possessing maximum strength is of minimum weight, and since it cannot wear out or (except by use of extraordinary force) be broken, it will endure without repairs. Such a roof requires no painting or patching, and never rusts; heat or cold cannot break down its endurance, and even fire, the greatest of all destroyers, cannot damage it. Federal Glass Tile can be used when it is necessary that portions of a roof provide top-lighting.

THE JOHN D. EMACK CO., Philadelphia and New York. "What Then is Thatchslate?" An answer to the question.

Certain architects who do much country house work have succeeded in capturing something of the skill which made notable the work of architects and builders a century or more ago. This applies not only in the matter of design but also in the use of materials, which, of course, has its effect upon the design. Architects and builders well know the value of the slates supplied by the John D. Emack Co. Slates can be cut, quarried, split or trimmed in quite a variety of ways, and this folder describes and illustrates what is known as "Thatchslate," obviously slate which when used for roofing gives the appearance and much of the texture of a thatched roof,—or as the folder puts it, "a roof thatched with slate instead of with straw." Slates of this particular variety come in several colors,—greens, grays, browns, purples, buff and blacks, all highly valuable colors.

EDWIN F. GUTH CO., St. Louis. "Guth Lighting Equipment." A brochure on lighting and on fixtures for lighting.

Lighting the interiors and even the exteriors of buildings properly necessitates the use of fixtures of many kinds,—fixtures suspended from ceilings, fastened to walls, or else the type called "portable," intended to be placed wherever it may be convenient to have them. In this brochure the Edwin F. Guth Company illustrates a vast number of the fittings which it carries in stock or makes to special order,—fixtures for banks, public buildings, clubs, churches, hospitals, residences and apartment buildings, stores, commercial and industrial plants, these fixtures made of metals of many sorts given finishes of different kinds. One valuable part of this brochure is given up to describing the type of illumination known as "Concealite," widely used for show windows, show cases, the chancels of churches or the prosceniums of theaters, and of interest is the page giving in percentages efficiency of different lighting units.

ELEVATOR SUPPLIES COMPANY, INC., Hoboken. "Elevator Door Closer and Positive Electric Interlock."

Improvement in elevator equipment has kept pace with the development of the elevator. Perhaps it would be more accurate to say that development of the elevator has been made possible only by the ingenuity and resource which makers of their equipment have brought to their work. Prominent among manufacturers of such equipment has long been the Elevator Supplies Co., Inc., and in this brochure there are given for architects and builders details of their Elevator Door Closer and Positive Electric Interlock. The Elevator Door Closer and Positive Electric Interlock give the maximum of safety to elevators in modern buildings. The Positive Electric Interlock absolutely cuts off the power while the doors are open, and therefore makes it impossible for the operator to start the car while passengers are entering or leaving the elevator. With the Elevator Door Closer and Positive Electric Interlock it is impossible for a waiting passenger to open the door from the outside, even with the car on a level with the floor. The operator's efficiency is then increased, for thought of possibility of accident is practically removed from his mind.

COPPER & BRASS RESEARCH ASSOCIATION, New York. "The End of Rust Troubles;—Brass Pipe."

Those in charge of the building of the Cathedral of St. John the Divine are allowing to be put into it only the best of materials, their idea being to leave to the world an example of what is the best building practice today. It is the ambition of the builders to have archaeologists 2000 years hence as greatly impressed by the remains of this great structure as students of today are by the imposing monuments of ancient Rome. It is to be noted that particular attention is being given to piping. This brochure dwells upon the well known merits of brass piping, proof, of course, against rust, which colors or stains water and porcelain fittings, and destroys the pipes themselves.

BISHOPRIC MANUFACTURING CO., Cincinnati. "The Renaissance of Stucco." A work on its history and use.

The widespread use of stucco, which plays so conspicuous a part in modern building, is after all merely a revival of the use of a material centuries old. Wide use of stucco by the ancients was not caused by its being easily secured and applied as much as because it possessed certain qualities which rendered it particularly valuable, chief among which is its affording insulation which in hot climates prevents the penetration of heat to the interior of a house, just as (in cold climates) it protects or conserves what heat the interior enjoys and prevents its loss. This publication, as its title implies, reviews the use of stucco in the ancient world and gives some account of its recent use. It illustrates numerous structures old and new in various parts of the world for building which stucco has been used and describes some of the textured surfaces developed.

THE TRANE CO., La Crosse, Wis. "No More Radiators," And "The Trane Heat Cabinet." A new device for heating.

These two folders or brochures contain data regarding a device which is founded upon an entirely new application of the principle of distributing heat. The "Heat Cabinet," as its name implies, is a cabinet which contains or surrounds a heating element and which is constructed in such a way that it gives out heat by convection rather than by radiation. Expressed in different words, the amount of heat given off by the heating element depends almost wholly upon the amount of air passing through it; the giving of heat is entirely dependent upon the circulation of air around the cabinet. The Trane Heat Cabinet is such a basic invention that its features apply to all the accepted forms of direct radiator heating, such as hot water, steam, vapor, or vacuum. Air passes through the cabinet at a rate of 100 to 150 feet a minute, causing fast circulation. In ten minutes a room is heated to a comfortable temperature.

J. G. WILSON CORPORATION, New York. "Wilson Rolling Wood Doors." A helpful booklet on their use.

There are of course countless places where it is convenient to use doors which roll up out of the way instead of opening in regular door fashion. But it is by no means necessary that such doors be invariably of metal, and there are many places where rolling doors of wood are as useful as doors of metal, and sometimes use of wood is in fact preferable. For over 50 years Wilson Doors have been meeting a definite industrial need so satisfactorily and efficiently that they are now in successful use in many industrial plants throughout the world. Wilson Rolling Wood Doors are especially adaptable to garages, engine houses, chemical and refrigerating plants where strong acids or oxidizing fumes are present. They are specially constructed to attain the greatest ease in operation and a maximum long life unaffected by corrosion, buckling, warping, swelling, or shrinking. As the opened doors are coiled overhead, they allow full use of valuable floor space, and that Wilson Rolling Wood Doors are remarkably durable is shown by actual records of installations made many years ago that are still giving daily satisfactory service.



HOTEL MANGER, New York City: H. Craig Severance, New York, Architect; E. Smolka Plumbing Supply Co., New York, Jobbers; Jarcho Brothers, New York, Plumbers

TWELVE hundred and fifty rooms will be added to the great Manger chain of hotels in New York City with the completion this fall of the Hotel Manger.

The bathtubs in this fine hotel will be of Kohler make, in the well-known "Viceroy" built-in pattern. The installation will number 456 tubs, the remaining bathrooms being equipped with showers only. In addition there will be 1050 other Kohler fixtures.

The exceptional quality of Kohler Plumbing Fixtures, their beauty of design, their uniform whiteness of enamel (always signed with the name "Kohler"), and the fact that they cost no more than any other acceptable ware—these considerations give ample warrant for writing "Kohler" into any specification.

KOHLER CO., *Founded 1873*, KOHLER, WIS.
Shipping Point, Sheboygan, Wis. • *Branches in Principal Cities*



Factory Gates, Kohler
The Kohler factory attains unique quality in Kohler plumbing fixtures and private electric plants because Kohler Village, with its beautiful homes and gardens, inspires unique quality

KOHLER OF KOHLER

Plumbing Fixtures

Reviews and Announcements

WILLIAM H. LUTTON COMPANY, Inc., Jersey City. "Greenhouses of Quality." A booklet on model conservatories.

Careful study given to greenhouses by architects and builders of such structures has resulted in something which closely approaches perfection in their development,—and not only are they being used for the growing of plants, fruits, vegetables, etc., the purposes for which they are generally erected, but often for sheltering the bathing or swimming pools and squash courts being built on so many country estates. This very interesting brochure gives data on every possible detail of greenhouse construction: Building Sites and Orientation; Sizes of Compartments; Types of Construction; Roofs; Gutters; Glass; Heating; Service Buildings; etc. Views are given of many greenhouses which have been erected by these well known builders, several in cooperation with Duhring, Okie & Ziegler, of Philadelphia.

NATIONAL LEAD COMPANY, 111 Broadway, New York. "Dutch Boy Quarterly" Volume 4, Number 2.

Architects who are fortunate enough to receive this well edited little publication find that it is full of valuable matter. This particular issue for example contains a helpful article on "Color in the Hospital," proving that white need not necessarily be used to secure that sanitary cleanliness which should of course obtain in a hospital, and that certain colors possess high value in having a beneficial effect upon patients. The writer takes up a number of colors,—yellow, red, gray, blue, and green,—and analyzes the effect of each upon patients, showing why certain colors should be used and others avoided. Other articles in the same issue deal with the decorative value of leaded glass, and "Prevention of Stain on White Paint." Architects should ask to be put on the mailing list.

GRAYBAR ELECTRIC COMPANY, New York. "Graybar Housekeeping Appliances." A brochure on utilities.

That the application of electricity seems to have been made to household utilities of every kind in which movement is involved is suggested by this booklet which illustrates, lists and describes the housekeeping devices supplied by the Graybar Electric Company, which was recently formed to take over the supply department of the Western Electric Co. Clothes washers, wringers, vacuum cleaners with their various attachments, ironers, ranges for cooking, heaters, cooling fans and sewing machines are some of the appliances with which the brochure deals. The booklet not only lists and illustrates these utilities, but gives the specifications which architects and builders might reasonably require to provide for their proper use. The wide use which is being made of these and other similar devices is due, of course, very largely to the ingenuity which their makers have shown in adapting to so many practical purposes that most useful of forces,—electricity.

THE FLEXLUME CORPORATION, Buffalo. "Signs and Inscriptions in Architecture." A work on their proper use.

Architects find only too often that carefully designed exteriors and well considered interiors are disfigured and sometimes badly marred by use of the signs which present-day business methods find so necessary. Frequently these signs, bad enough in themselves, are made worse by use upon them of lettering which bears no relation whatever to the architectural character of a structure. That this need not be so is abundantly proved by this extremely useful and well produced brochure issued by a concern which shows considerable skill in reconciling the demands of Business with the claims of Architecture. It proves (first) that signs properly managed need not in the least injure the appearance of a building without or within, and (second) that there are types or styles of lettering in such close agreement with the different styles that their use emphasizes the architectural character and dignity of a structure. Greek, Roman, Romanesque, Gothic, Byzantine, Renaissance and Georgian types are considered, and lettering well adapted to each is shown. The brochure offers to those desiring them the services of the Flexlume Designing Department, equipped as it is with all possible facilities.

George Winkler announces the opening of new offices in the Moorhouse Building, Tampa, Fla.

Everett H. Merrill, formerly of 3981 West Sixth Street, Los Angeles, has opened new offices at 4475 Santa Monica Boulevard.

Wanted—For architect's office, representative to interview prospective clients. Architectural experience essential. Box 28, ARCHITECTURAL FORUM, 383 Madison Avenue, New York.

B. Fraser, care of the Shanghai Land Investment Co., Ltd., 28 Jinkee Road, Shanghai, would be glad to receive catalogs from firms interested in sending building materials or specialities to his part of the world.

Eliel Saarinen and Henry Scripps Booth have established themselves in the Cranbrook Architectural Offices, Lone Pine Road, Bloomfield Hills, Birmingham, P. O., Mich. They would be glad to receive catalogs and other publications from manufacturers.

TEACHERS WANTED. For the school year beginning September 8, 1926, the School of Applied Arts of the University of Cincinnati is desirous of filling these new positions: One Assistant Professor, History of Architecture; (Major work in Mediaeval and Modern Architecture.) One Assistant Professor, Interior Decoration. Three Assistant Professors, Principles of Design (Composition). One Assistant Professor, Landscape Architecture.

Address applications or inquiries to the Director, School of Applied Arts, University of Cincinnati.

AMERICAN WALNUT MANUFACTURERS' ASSOCIATION, Chicago. "Walnut for Interior Woodwork and Paneling." A work on the many advantages of using walnut.

The possibilities of using walnut for interior trim are so many and so great that one wonders why it is not more frequently employed for work of the better class. The reason generally given would be, of course, that its cost prevents its more frequent use, and one of the most interesting details of this brochure is in its precisely answering this objection and giving the comparative costs of different woods. The cost of the interior trim of a typical room, for example, a room with baseboard and shoe moulding and low paneling, mantel, and the usual doors and trim about doors and windows, as illustrated on pages 7 and 8 of the booklet would be: American Walnut \$390; Mexican or African Mahogany \$390; Philippine Mahogany \$368; Quarter Sawed White or Red Oak \$365; Plain Sawed White or Red Oak \$355; English Oak \$425; Birch \$355; Quarter Sawed Red Gum \$342; Plain Gum, etc., \$330. From these figures it will be seen that the cost of walnut is really less than that of several woods likely to be used, and but a trifle more than that of birch or gum, woods frequently made use of. The booklet gives considerable useful information on the subject of use of walnut for floors of residences, a subject which is always important.

VAN RENSSELAER P. SAXE, C.E.

Consulting Engineer

**STRUCTURAL STEEL
CONCRETE CONSTRUCTION**

Knickerbocker Building

Baltimore



The Miner Physicians' Hospital in Plattsburg, New York, was treated with Hydrocide Colorless. E. K. Fenno of Syracuse was the contractor

*Frederick B. Townsend,
Chicago, Architect*

Damp-proof

*The interior of this hospital will always be warm and dry—
the exterior walls will always retain their natural beauty*

THE exterior walls of the newly completed Miner Physicians' Hospital in Plattsburg, New York, were treated with Hydrocide Colorless, the invisible waterproofing. In addition to keeping the interior of the building warm and dry, this material preserves the natural beauty of the brickwork. It prevents the walls from becoming discolored. It is absolutely invisible when applied.

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brick and forms a non-conductive, protective layer. Since it contains no paraffin, it will not run in hot weather. It can be applied as easily during the winter months as during the summer. It can be painted. It will never collect dust.

Hydrocide Colorless will give you warm, dry, beautiful buildings. Buildings of which you can be permanently proud. Write us for further information and a generous demonstration sample.

Hydrocide Colorless *Waterproofing*

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Lapidolith—The original concrete floor hardener. A liquid chemical that changes the floor surface to a fine, dense, crystal-like structure of flint-like hardness. Hundreds of millions of feet of concrete floor have been Lapidolized in leading industrial plants of the country.

Cemcoat—A paint that stays white longer than any similar paint; can be washed again and again; sticks to brick or concrete as easily as to wood; and usually requires one less coat. Made for both interiors and exteriors, in white and colors and in gloss, eggshell, or flat-enamel finish.

Lignophol—A preservative dressing for wood floors that penetrates and restores the natural oils and gums of the wood. Lignophol prevents rotting, splintering and drying out; it is not sticky; it can easily be washed; and it does away with ordinary floor oils.

Stormtight—The famous semi-liquid compound for mending and preserving roofs. The thick, adhesive rubber-like material can be applied by anyone, over any kind of roof, and gives a tight new surface that lasts for years. Made in four colors. Mends a single leak or makes an entire roof water-tight.

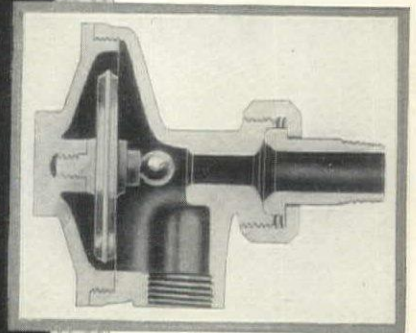
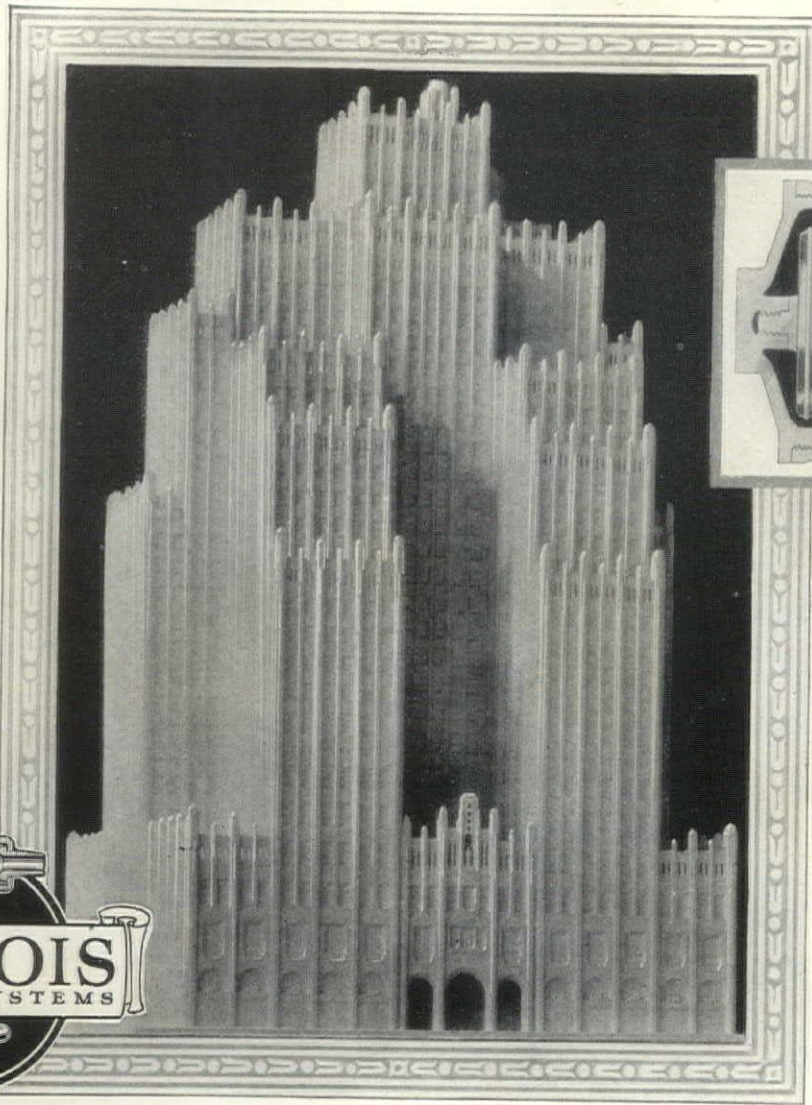
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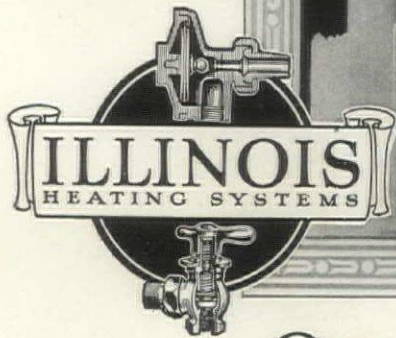
114 Fifth Avenue, New York City

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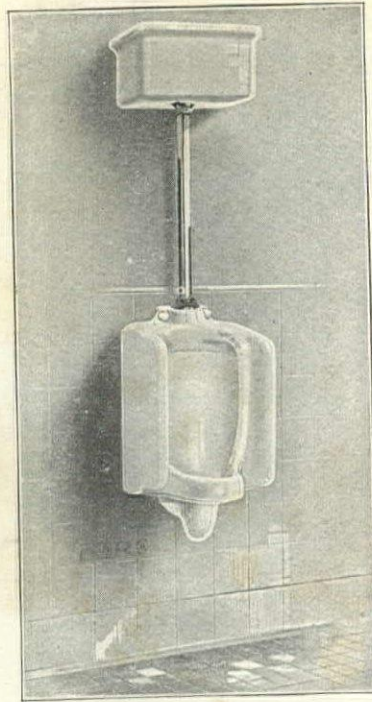
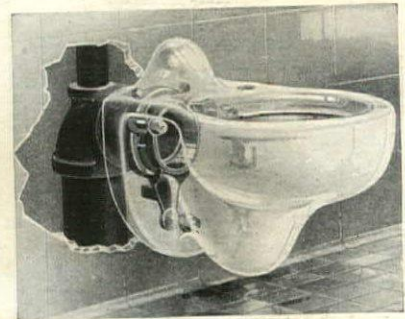
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CORRECTO NO. 720-490
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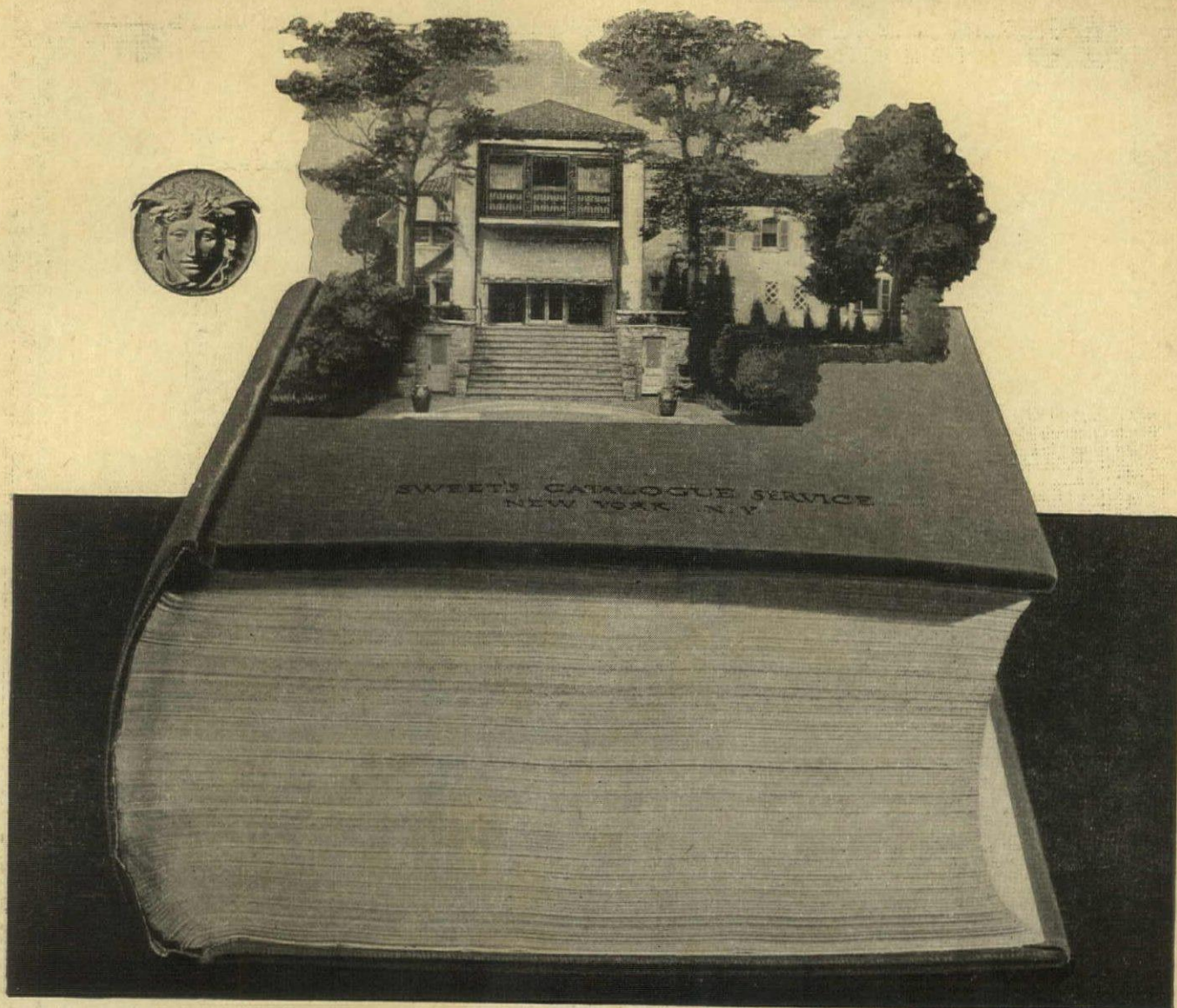
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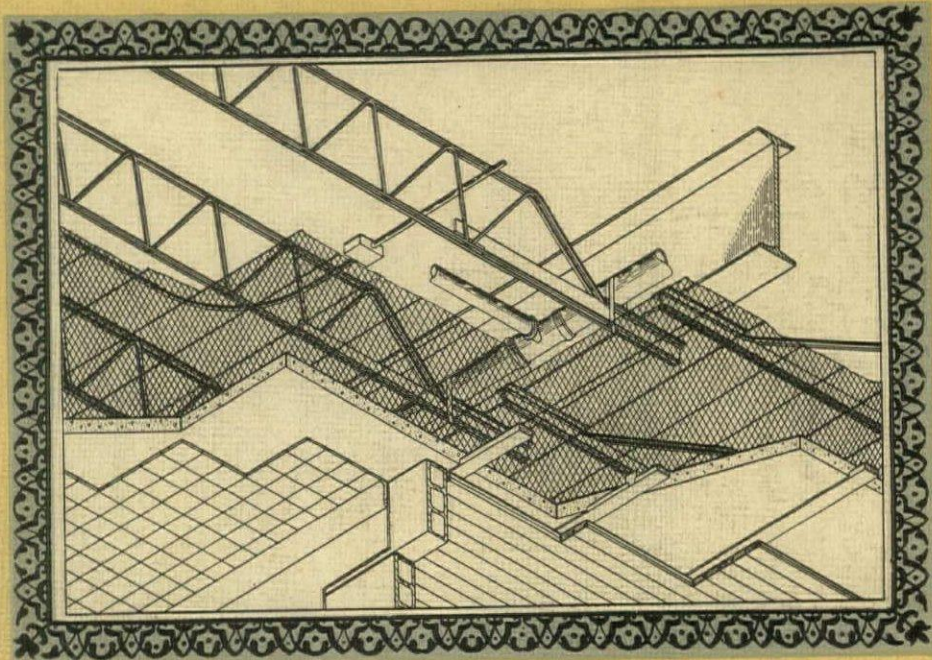
Supplementing the information in "Sweet's"—pages 118-121; 341-349; 1716-1717—we issue interesting Booklets in Architectural sizes, which we shall be very pleased to send upon request.

Our Technical Department will also be pleased to contribute practical suggestions on special matters whenever its services may be desired.

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MEDUSA



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