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# PENCIL POINTS

RUSSELL F. WHITEHEAD EDITOR

RALPH WALKER EDITORIAL ADVISER

KENNETH REID MANAGING EDITOR

### Published Monthly by REINHOLD PUBLISHING CORPORATION, Stamford, Conn., U.S.A.

RALPH REINHOLD, President and Treasurer PHILIP H. HUBBARD, Vice President H. BURTON LOWE, Vice President and Secretary Francis M. TURNER, Vice President

Executive and Editorial Offices: 330 West 42nd Street, New York

35 cents a copy. Yearly subscription \$3.00, two years subscription \$5.00, payable in advance, to the U. S. A., U. S. Possessions, Cuba and Mexico. Foreign subscribers add \$1.00 a year for postage; Canadian, 50 cents a year additional. Remittances by International or American Express Money Order or by Draft on a bank in the U. S. should be payable in United States funds. Subscribers are requested to state profession or occupation. Changes of address must reach us before the 20th of the month to assure delivery of forthcoming issue. Be sure to give both your old and new addresses. To Contributors: Articles, drawings, photographs, etc., sent with a view to publication will be carefully considered, but the publisher will not be responsible for loss or damage. Copyright, 1936, by Reinhold Publishing Corporation. Trade Mark Registered. All rights are reserved. Pencil Points is being indexed regularly every month in The Art Index.

PENCII

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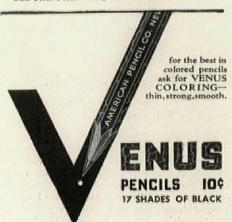
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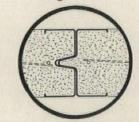
If YOU have not yet learned how GYPSTEEL PLANK\* cuts the cost of fire-safe floor and roof-deck construction... reduces expense through easy, speedy installation... saves tonnage in steel joists, girders and columns... and at the same time gives you a sturdy, uniform, fire-safe job, plus the utmost in heat and sound insulation—then perhaps

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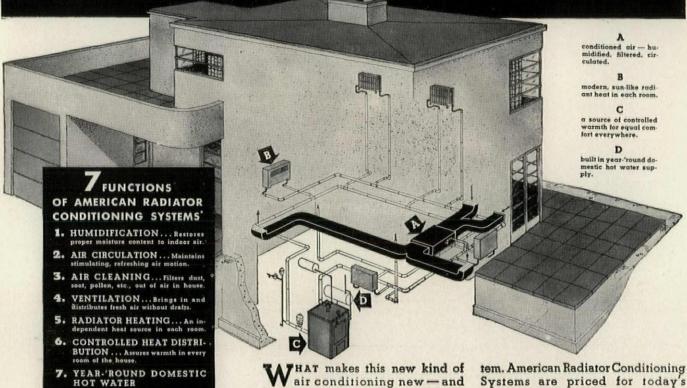
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domestic hot water supply built in. Extended jacket completely conceals burner and all accessories.



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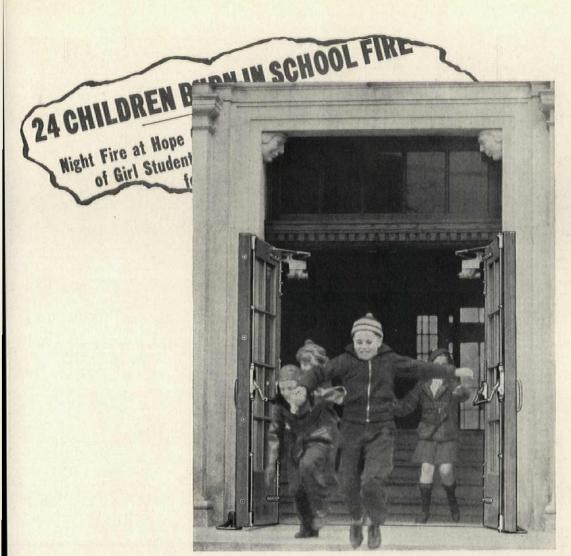


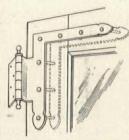












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Complete literature and specification data is yours on request.

Sweet's Index 18

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# Oil-O-Matic and only Oil-O-Matic meets them all

- Does it atomize at low pressure, insuring quiet and complete combustion and long life?
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Resilient, easy to clean and to keep clean, Sloane-Blabon Linoleum makes an ideal floor for the Corrective Gymnasium.

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### GRADES

EACH AS TRUE AS A PLUMB LINE

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# Precision Grading FROM 17 SEPARATE LEAD FORMULAS

By brilliantly improved methods, Eagle has developed in TURQUOISE Drawing pencils 17 grades as accurately spaced and permanently uniform as the markings on your slide rule. Precise accuracy of grading is achieved by scientifically adjusting the proportions of graphite and clay in 17 basic lead mixtures. Each formula is separately blended, checked and adjusted for the slightest variations in raw materials by thorough laboratory control.

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You've probably no idea how much there is for you to draw upon in the new G-E Home Bureau, and now that we're all geared up to help you,

we invite you to use this service. We do not furnish plans. But we will go over your plans and specifications from an electrical point of view. Try us out. Tell us what's on your mind



and we'll give you the correct answers — with speed and dispatch.

Service we calls it—and we're trying hard to make that poor abused word respectable. Write the General Electric Home Bureau, Room 1110, 570 Lexington Avenue, New York City.

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# Linotile floors like this HELP YOUR CLIENTS RENT AND SELL

YOUR clients will find it easier to rent and sell when their stores and offices have the eye-appeal that richly colored, handlaid floors of Armstrong's Linotile bring to this room in the Hershey Chocolate Corporation's new windowless office building.

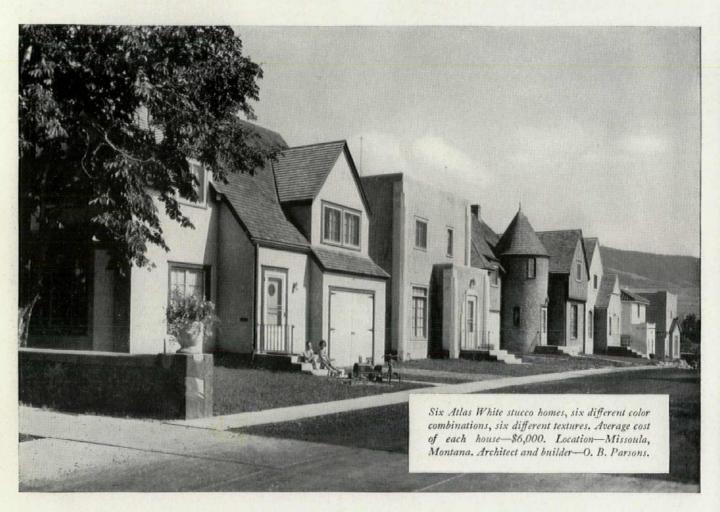
Linotile is an exceptionally durable resilient tile. Inexpensive to install and easy to maintain by occasional washing and waxing, it never requires costly refinishing. Colors run through the full thickness of each tile, so that scuffing feet and scraping furniture cannot wear away their freshness and beauty.

When you remodel or build, Armstrong's Architectural Service Bureau can give you unbiased, moneysaving suggestions because Armstrong offers the only complete line of resilient floors: Linotile, Accotile, Cork Tile, Rubber Tile, and Linoleum. Write now for "Individuality in Handlaid Floors." Armstrong Cork Products Co., 1306 State St., Lancaster, Pa.

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1. It is a *durable* finish—a thin sturdy wall of concrete that gives the permanence, weather resistance and fire resistance of concrete.

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- Any color is available in stucco made with white portland cement.
- 4. It is *economical* in first cost and gives the kind of lasting service that endures in any climate.

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UNIVERSAL ATLAS CEMENT CO.

UNITED STATES STEEL CORPORATION SUBSIDIARY
208 South La Salle Street, Chicago

A FACTORY PREPARED STUCCO IS PREFERABLE

S-4

MADE WITH Atlas White PORTLAND CEMENT

M A Y

### HERE, THERE, THIS & THAT

### Summer Housing Study at Columbia University

Architecture and housing studies, embracing nationwide surveys of family needs, will be featured at the thirtyseventh Summer Session of Columbia University, which opens July 7 and continues for six weeks, according to an announcement by Director John J.

Harvey Wiley Corbett, who was chairman of the architectural commission of the Century of Progress Exposition, and C. Grant LaFarge, past president of the New York Chapter of the American Institute of Architects, are among those who have been appointed to the summer faculty. They will lecture in a symposium on contemporary art, which is described as a practical survey of existing movements in architecture, sculpture, and painting, with the architecture monu-ments of New York City as a labora-

"Rebuilding America" will be the theme of Dr. Edith Elmer Wood, social economic consultant of the Housing Division of the PWA, Washington, D. C., who will direct a program in housing problems. Plans for slum clearance and low rent housing in America will be taken up in connection with European experience in

these fields.

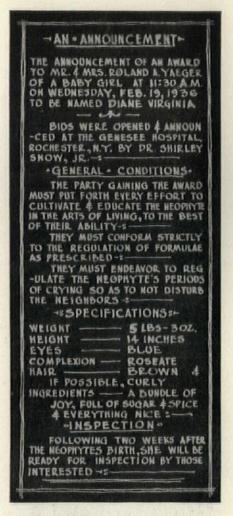
### Standard Specifications Available

Standard specifications of the New York Building Congress are available and may be ordered from the office of the Congress, 101 Park Ave., New York, N. Y. The subjects are listed hereafter, the number in parenthesis after each subject being the number of pages in each case. Prices are two cents a page, subject to a discount of 10% when 25 or more copies of any one subject are ordered. Bound volumes are available to members at \$2.00 a copy; to others, \$2.50.

Demolition (2), Excavating (3), Waterproofing by Bituminous Membrane (2), Waterproofing by Plastic Coatings (3), Masonry and Concrete Materials (4), Masonry (4), Mass and Reinforced Concrete (8), Concrete Arches and Fireproofing (3), Structural Steel (4), Cement Finish (4), Furnishing Granite, Cut Stone, Marble or Manufactured Stone (5), Setting Granite, Cut Stone, Marble or Manufactured Stone (3), Furnishing Terra Cotta (4), Setting Terra Cotta (3), Vault Lights (2), Mail Chutes (2), Caulking (2), Metal Window Frames and Sash (4), Roofing and Sheet Metal Work (7), Carpentry (8), Architectural Iron (8), Architectural Bronze (3), Metal Furring and Lathing (3), Plastering (5), Interior Marble, Slate and Structural Glass (5), Terrazzo and Mosaic (4), Tile (Keramic) (5), Hollow Metal Work (6), Metal Covered Wood (5), Glass and Glazing (3), Painting (3), Window and Door Screens (3), Weatherstrips (3).



FRANK BARCUS SUBMITS A SKETCH OF AN ENTRANCE PORCH ON DETROIT'S FIRST SLUM CLEARANCE PROJECT. THE ALUMINUM POSTS WERE DESIGNED AS 11/2" x 2" BUT, AS THIS ANIMATED DETAIL SHOWS, IT WAS FOUND ADVISABLE TO DOUBLE THEIR SIZE TO ALLOW FOR THE SPECIAL USES INDICATED ABOVE



VITAL STATISTICS SET IN ORIGINAL FORM BY MR. ROLAND A. YAEGER

### Summer Art Courses at Penn State

For the tenth successive summer, the Art Department of The Pennsylvania State College Summer Session will be under the direction of Leon Loyal Winslow. Listed among the instructors will be found names already familiar to those engaged in art teaching. Besides Mr. Winslow the faculty will include Walter H. Klar, C. Valentine Kirby, Hobson Pittman, Lee Town-send, Ivan Rigby, Margie Coleman Harris, Harold E. Dickson, Andrew W. Case, and Mildred E. Cox.

The widespread need for better trained teachers and supervisors of art will be met at The Pennsylvania State College Summer Session of 1936 by a number of undergraduate and graduate courses, to be announced in a separate Art Bulletin. These courses include freehand drawing and design, the organization of teaching material, painting in oil and in water color, crafts, the history of art, sketching from the human figure, industrial art, modeling, commercial or advertising art, and supervision and research in art education.



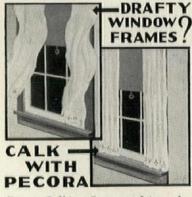
# Ready to Help You

### WITH THAT BUILT-IN LAUNDRY

• OR THOSE MODERNIZATION PLANS

When you are working on the plans for a new hotel, club building, office structure — helping with the expansion program of a hospital or school — almost invariably your specifications reach into the laundry field. That is when an American Laundry Advisor can save your time and make your client's money go farther. It has been his privilege, many times, to work with architects. He can help you with floor plans — suggest machines and procedures that will put big laundry capacity into small space. A letter will bring him to your office. And his services will not obligate you in any way.

THE AMERICAN LAUNDRY MACHINERY COMPANY CINCINNATI, OHIO



Pecora Calking Compound is a plastic material that forms a perfect lasting seal between all building materials either similar or dissimilar. Properly applied, it will not dry out, crack or chip. It makes every joint a watertight expansion joint.



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Be Sure To Calk All Door And Window Frames With



No matter how little an architecturally designed residence costs, it is not unreasonable to expect it to be weather-tight. Greatly improved calking methods make it possible to quickly and economically calk around window and door frames to prevent the infiltration of air currents and moisture. This will also assure a saving in fuel by reducing heat losses and help to maintain more comfortable room temperatures.

For further details see Sweet's or write direct to us.

### Pecora Paint Company, Inc.

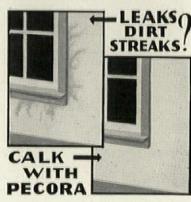
Sedgley Ave, & Venango St. PHILADELPHIA

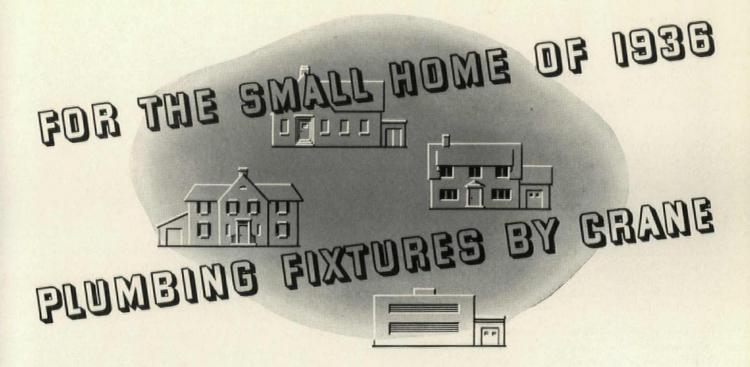
Established 1862 by Smith Bowen

MORTAR STAINS Makers of for Structural Glass



For mansion and cottage, skyscraper and store, in fact in every type of structure where weather-tight protection is desired, Pecora Calking Compound is the popular choice of reliable architects, builders and operators because of its established merit.





DESIGN, arrangement and materials in small home construction have come under the critical microscope. Everything must stand enlightened tests—the old as well as the new. The small house of 1936 is going to hit a new high—in practicability, in honesty of materials, in beauty, in economy.

Certain established pieces of home equipment, designed and engineered with an eye to the future, will survive the most acute appraisal. Crane fixtures for the bath, kitchen, laundry and heating plant will be among

these. For high quality, convenience, beauty and economy are inherent in them.

To the man who built yesterday, and the man who is going to build tomorrow, Crane fixtures represent what he most desires in equipment for his home. We present herewith five Crane products for bath, laundry, and kitchen. They will make the small home of 1936 a better place in which to live. They can be selected with full confidence that the owner could ask no more in beauty and convenience, no less in cost.

### BEAUTY · ECONOMY · DEPENDABILITY



Crane CORWITH Bath — Trim, graceful. Porcelain enamel on durable cast iron. A variety of fixtures, including built-in shower.



Crane CORONADA Lavinet

— A cabinet lavatory.
Generous space for towels,
toiletries. Rainier fixture
gives greater slab space.



Crane MAURCLONIA Closet

A close-coupled closet.

No connections visible. Reverse trap with jet. Efficient, moderate in cost.



Crane EVERBRITE Laundry Tub—Glistening solid porcelain (all clay), rounded corners, easy to keep clean, impervious to stains, low in cost,



Crane SUNNYSIDE Kitchen Sink. Enameled durable cast iron. Steel cabinet with drawers and storage space ingeniously arranged.

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VALVES, FITTINGS, FABRICATED PIPE, PUMPS, HEATING AND PLUMBING MATERIAL

### New Art College in California

Announcement has been made of the establishment of the first art college in the West. The new college, to be called California College of Arts and Crafts, is located in Oakland and is the outgrowth of the California School of Arts and Crafts, founded more than a quarter of a century ago. Frederick H. Meyer, formerly director of the parent institution, has been elected first president of the new institution, according to Dr. William S. Porter, president of the board of trustees, who made the announcement.

The new institution will be a fully accredited college of arts and crafts for men and women. Its work is to be carried forward in three schools: School of Fine Arts, School of Applied Arts, and School of Art Education. In each of these schools the college will offer academic and professional training leading to degrees, as well as special professional courses designed

for non-degree students.

California College of Arts and Crafts will have the distinction of being the only art institution on the Pacific Coast authorized to grant college degrees. It is empowered by the State of California to grant the following degrees: Bachelor of Fine Arts, Bachelor of Applied Arts, Bachelor of Art Education. The new institution will occupy the buildings and campus of the former school, located at Broadway and College Avenue, Oakland.

### Summer Courses at Michigan

The College of Architecture, University of Michigan, will again conduct classes during the coming summer. Instruction will be offered from June 29 to August 21 in architectural drawing, all under-graduate and graduate architectural design, elements of office practice, and in outdoor drawing and painting.

### Booth Fellowship Renewed

The George G. Booth Travelling Fellowship in Architecture has been renewed this year and the competition in design will be conducted during the two weeks beginning on June 22. The competition is open to all graduates of the College of Architecture, University of Michigan, who have not reached their thirtieth birthday by that date.

### Princeton School of Architecture Honored

For the second time in the last four years, the School of Architecture of Princeton University was awarded the Medal given annually by the Groupe Americain, Société des Architectes Diplomés par le Gouvernement Français. The winner is selected on the basis of the record made by its students in the competitions in Architectural Design conducted by the Beaux-Arts Institute of Design in New York. The faculty, curriculum and program of the School must also be approved by the Société.

Princeton's Beaux-Arts record this year was very impressive. During 1934-35, a total of 851 drawings from all parts of the United States, and even Canada and Mexico, were approved by local preliminary juries and sent to New York. Sixteen of these were voted "First Medals" and thirty were awarded "Second Medals." Princeton entered only 34 drawings but received 4 First and 7 Second medals. In other words with only 4% of the total number of contestants, Princeton won 25% of the highest awards.

Two students of the Princeton School—M. C. Branch, Jr., and Joseph Ceruti—tied for second place as individual scorers in Class "A" competition, and received special medals in

recognition of their work.



POSTER DESIGN BY WEIMER PURSELL OF CHICAGO, AWARDED THE \$200 SECOND PRIZE IN COMPETITION SPONSORED BY THE INSTITUTE OF FOREIGN TRAVEL. THE FIRST PRIZE DESIGN WAS PUBLISHED IN PENCIL POINTS' MARCH ISSUE

### In Residential Construction - There's a Place For

### TERRAZZO FLOORS

In residences, as in stores, hotels, office buildings and other large construction projects, terrazzo floors have won a definite and permanent place. Their colorful beauty, flexibility of design, durability and minimum maintenance, are just as valuable to the home owner as to operators of the largest commercial and public buildings.

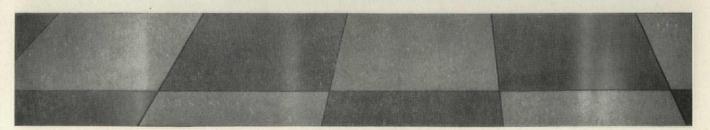
Constructed by reliable terrazzo contractors, these floors reproduce the pattern you design in the colors you specify. Once installed, they preserve your design in its original beauty throughout the years. Easy to clean and inexpensive to maintain, they satisfy permanently.

Your local terrazzo contractor is ready and willing to aid you in planning terrazzo floors for residences you design. A phone call or card sent to him will bring you the information you want—no obligation to you, of course. Or write to the Secretary, National Terrazzo and Mosaic Association, Inc., 524 Brook Street, Louisville, Ky., for established specifications for Terrazzo.

105

### THE NATIONAL TERRAZZO AND MOSAIC ASSOCIATION

SECRETARY'S OFFICE: 524 BROOK ST., LOUISVILLE, KY.



### New Travelling School for European Study

During the Season of 1936-37 (Sept. 26 to June 3) the Beacon Hill School of Design of Boston will inaugurate a travelling school in Europe, which will combine regular school work with European travel and research. The school will reside for several weeks in each of the art centers. The instructors travelling with the school will be Frank J. Robinson, A.I.A., A. Kingman Paine, Jr., and Miss Barbara Bradford, instructor at the Boston Museum of Fine Arts, who will have charge of women students. Courses will be given in oil painting, water-color painting, architecture, interior decoration and design. Information may be obtained from the school at 72 Myrtle St., Boston, Mass.

### Ralph Hacker to Study New York Schools

Mr. Ralph Evans Hacker, a member of the firm of Hacker & Hacker, School Architects, with offices at Fort Lee, New Jersey, has recently been appointed Architect to the Building Study of the Regents' Inquiry into the Character and Cost of Public Education in the State of New York.

Mr. Owen D. Young is Chairman of the Regents' Committee in charge of the Inquiry. Dr. Luther Gulick, Director of the New York Bureau of Municipal Research of Columbia University, is the Director of the Inquiry.

### Design for a Cosmosarium for 1939 Fair

The accompanying drawing shows a proposed Cosmosarium designed by Peter J. Bitterman, Architect, which has attracted considerable attention in New York as a possible feature of the coming World's Fair of 1939.

The Cosmosarium differs from a

The Cosmosarium differs from a planetarium in that in a planetarium one sees the skies as they appear to us from the earth while in a cosmosarium one sees the earth in space as it would appear to us if we were projected to a distance of 20,000 miles out in space. This would afford us a spectacle we have all at some time wished to experience and would do for us what a trip to the moon would offer us. The distance of 20,000 miles is about one-twelfth the way to the moon.

The cosmosarium, an entirely new conception, consists of a circular base housing exhibition halls, etc. Out of this base rise three 64-foot buttresses supporting a full spherical dome 128 feet in diameter. This great spherical

dome will be covered with vitreous tiles of a dark blue color on the outer surface upon which would be traced in gold the figures symbolic of the constellations.

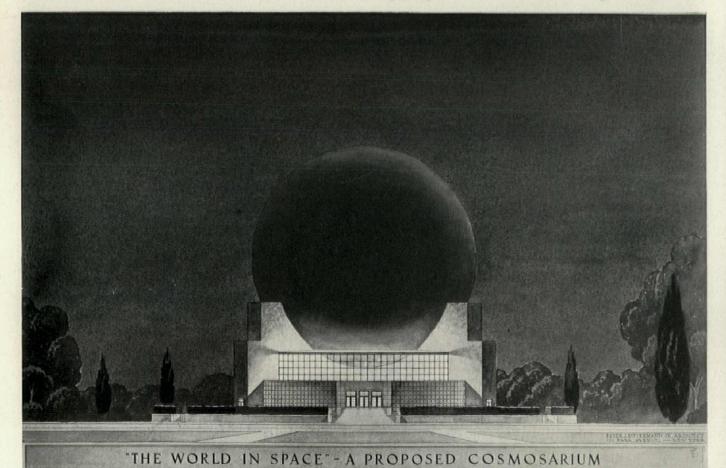
An interesting feature of this design is that the customary windows are missing since the lower story is entirely of masonry. Above this masonry, however, is a clerestory entirely of glass which would light the exhibition halls in the daytime and which would throw light at night on the great sphere above it.

Inside this sphere is a second and smaller sphere, 100 feet in diameter, representing space, with the earth 20 feet in diameter revolving upon its axis in the center. This inner sphere would be entirely dark except for the stars and planets studding its surface in a true representation of space.

Between the two spheres described would be two spiralling ramps, one for ascending, one for descending, making it possible to handle great numbers of spectators without the confusion so common in all places where great numbers are entertained.

From points of vantage along these ramps spectators would observe the earth in space.

The cost of the proposed cosmosarium is estimated at about two millions of dollars, including the exhibits.



SOMETHING NEW UNDER THE SUN-A COSMOSARIUM DESIGNED BY PETER J. BITTERMAN, ARCHITECT. SEE TEXT ABOVE

### Matches 35-YEAR-OLD with Brand New MAPLE!



RESIDENCE OF J. CARLETON JONES, OSHKOSH, WISCONSIN

# A Remarkable Tribute to Northern Hard Maple and to the Architect Who Specified It!

Widespread remodeling has spotlighted important differences in building materials!

In completely remodeling this home, two rooms were combined into one—and their floors had been laid at different levels. Auler, Jensen & Brown, the architects, found the "high" floor to be Northern Hard Maple in perfect condition, despite 35 years of use.

So, on top of the "low" floor, they laid a new Maple floor—sanded the 35-year-old Maple—stained and waxed both old and new sections, and then—found that the floor-sections matched so perfectly that even a trained eye cannot tell where the old stops and the new begins!

What a remarkable tribute to Northern Hard Maple—and what a testimonial to the judgment of the architect who specified it!

In new construction or remodeling, whether you floor with blocks or strips—with or without pattern—over screeds, wood or concrete sub-floors, Northern Hard Maple will give lasting satisfaction year after year, and constantly testify to the sound judgment back of its choice.

For Northern Hard Maple at its best, be sure to specify MFMA\*. Write for MFMA "Grading Rules and complete Standard Specifications."

### MAPLE FLOORING MANUFACTURERS ASSOCIATION 1785 McCormick Building, Chicago, III.

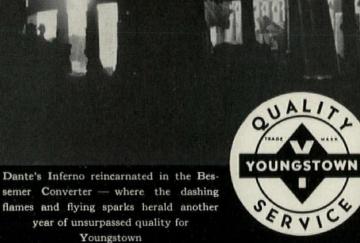
See our catalog data in Sweet's, Sec. 13/13. Let our service and research department assist you with your flooring problems. Write us.

### Floor with Maple

\* 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 adhere to manufacturing and grading rules which economically conserve these remarkable woods. This trade-mark is for your protection. Look for it on the flooring you use.



# YOUNGSTOWN



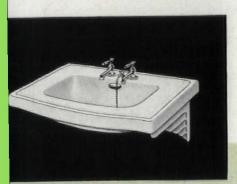
Night scene of Bessemer Converter blowing heat of steel

THE YOUNGSTOWN SHEET AND TUBE COMPANY General Offices 1 1 : Youngstown, Ohlo

Tubular Products; Sheets; Plates; Tin Plate; Bars; Rods; Wire; Nails; Conduit; Unions; Tie Plates and Spikes



rn, roomy, Brigsteel Beautyware recessed with Safety Rim Seats, were specified-with antial savings in cost over any other make.



ype of Brigsteel Beautyware wall bracket, 24", flat slab lavatory was installed in each Oakland Housing, Inc., Michigan homes.

A beautiful, new residential district has been developed in West Bloomfield Township, Oakland County, Michigan. One hundred and fifty lots of an acre each have been laid out around a central commons. Upon each lot an attractive, well constructed home with single garage has been built with money loaned by the F. E. R. A.

This development is one of the outstanding efforts of the Government to stimulate low-cost housing design and construction. In these homes nothing but the best was used and all materials were necessarily approved by the Federal Housing Administration. Brig-

steel Beautyware plumbing fixtures were installed in every home. Below, Mr. Barton P. Jenks, Jr., the Government architect and manager of the project, explains why. Note his statement.

Eames & Brown, plumbing contractors of Pontiac, Michigan, who installed Beautyware in the 150 homes, say it required only one-third the time to uncrate, set and connect a Brigsteel Beautyware tub, that it takes to perform the same operations with a cast iron tub. Those interested in more details in regard to this noteworthy project may secure a copy of the official printed report by writing Brigsteel, Detroit.

PLUMBING WARE DIVISION . BRIGGS MANUFACTURING CO. . DETROIT, MICH.



Brigsteel Beautyware formed metal plumbing fixtures were selected for the group of 150 low-cost homes of Oakland Housing, Inc., because we believe they provide a new beauty and utility at a new low cost. Their lighter weight and other exclusive features of design simplify installation problems and materially reduce attendant costs, particularly in such a large multiple-dwelling project.

## At cocktail bar or tennis court ...

### SEALEX serves and serves well

Architect Brandon Smith, called upon to design interiors for such diverse sports as "elbow bending" and tennis-playing, found in the wide range of Sealex materials an ideal flooring for both areas.

In the Hide-Away Bar of the Roosevelt Hotel, Pittsburgh, a floor was needed that would be attractive, yet long-wearing, spill-proof and easy to keep clean. A smart Sealex Floor of Pacific Blue Linoleum, set off with a white feature strip, answered these demands-rounded out the modern decorative scheme.

The indoor tennis court at the Alleghany Country Club presented even more difficult flooring problems. Yet Brandon Smith found just what he wanted in a Sealex Cork Carpet Floor, with a special thin cork underlay. This resilient floor means greater comfort for players' feet, and no distortion of the ball's bounce.

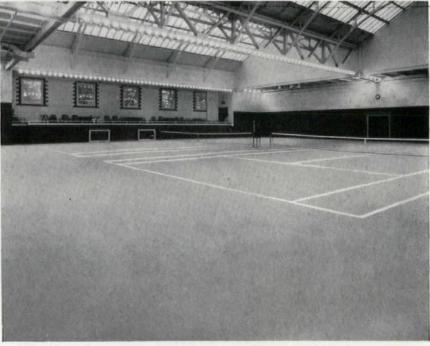
Like all Sealex materials, these floors are quiet, as well as comfortable underfoot. Economical in firstcost and inexpensive to maintain. Wear-resisting!

Installed by authorized contractors of Bonded Floors, Sealex Linoleum carries a guarantee covering the full value of workmanship and materials. Write today for full information.

CONGOLEUM-NAIRN INC., KEARNY, N. J.

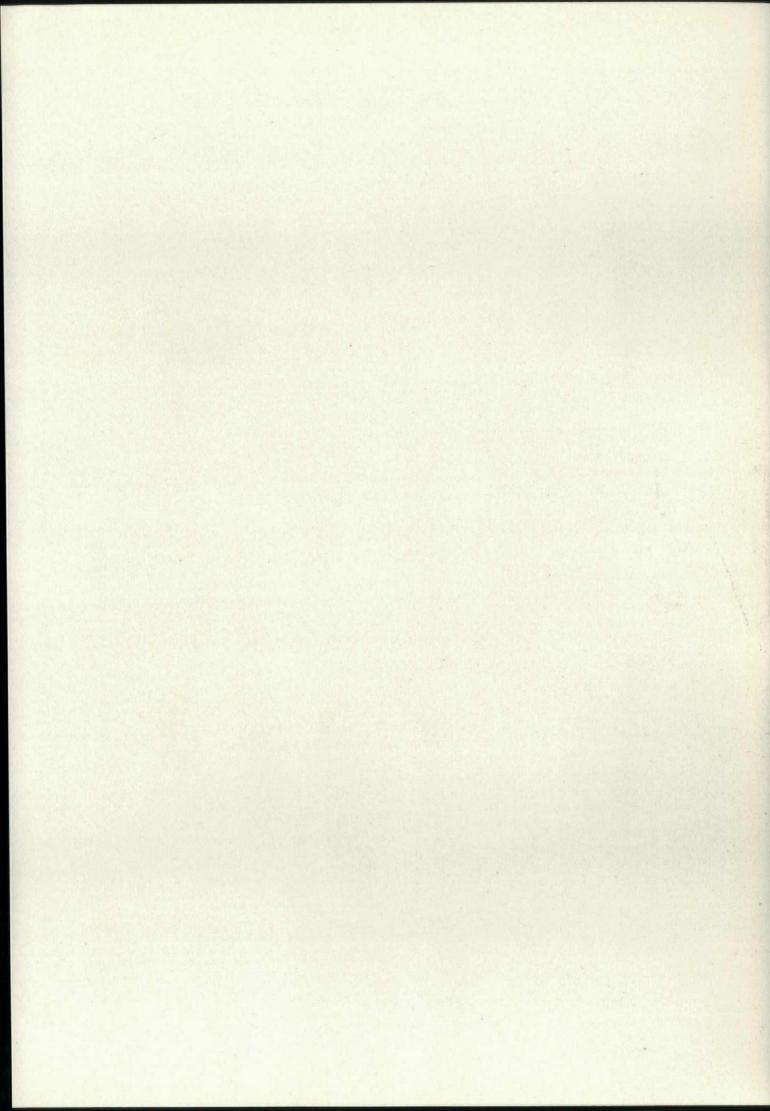


Sealex Linoleum in the Hide-Away Bar of the Roosevelt Hotel, Pittsburgh, Pa.



Sealex Cork Carpet Floor in indoor tennis court of the Alleghany Country Club.

SEALEX Linoleum Floors and Wall-Covering



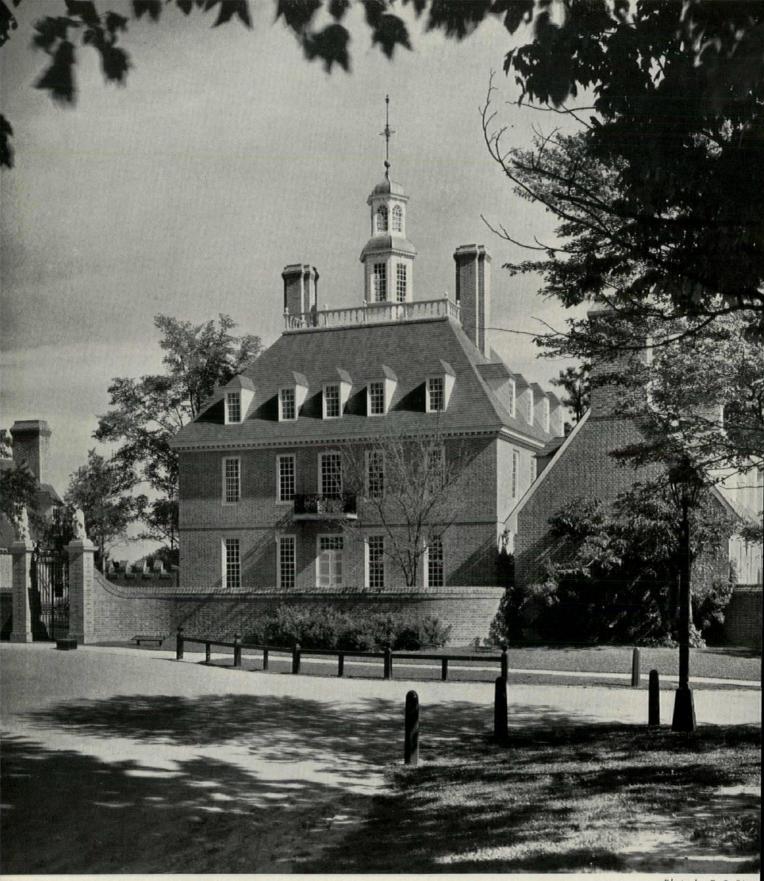


Photo by F. S. Linco

GOVERNOR'S PALACE AT WILLIAMSBURG, VIRGINIA, AS RESTORED UNDER THE DIRECTION OF PERRY, SHAW & HEPBURN, ARCHITECTS

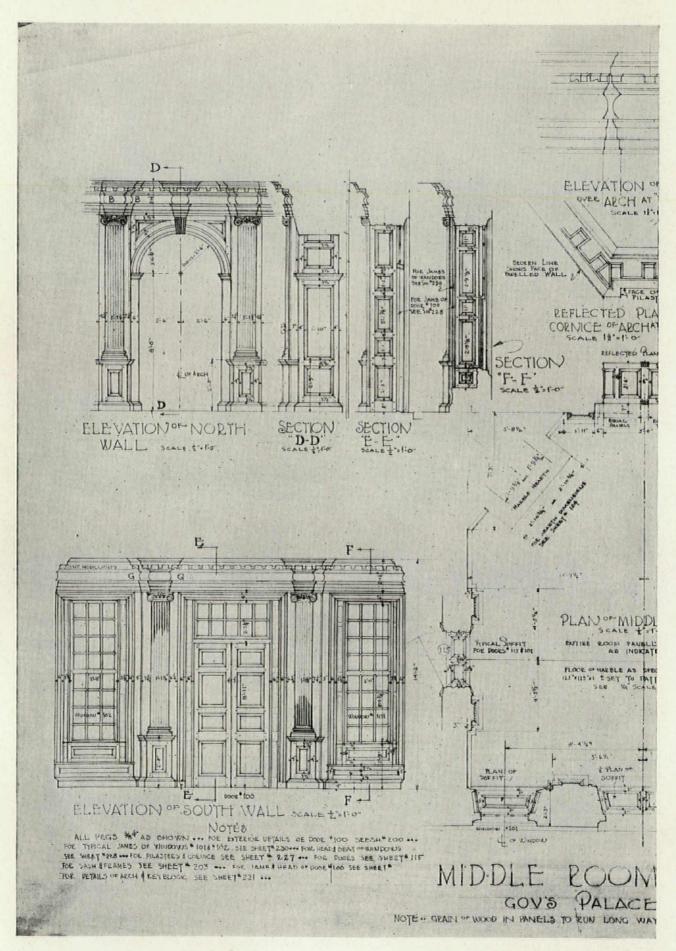
# THE RESTORATION AT WILLIAMSBURG

PERRY, SHAW & HEPBURN, ARCHITECTS

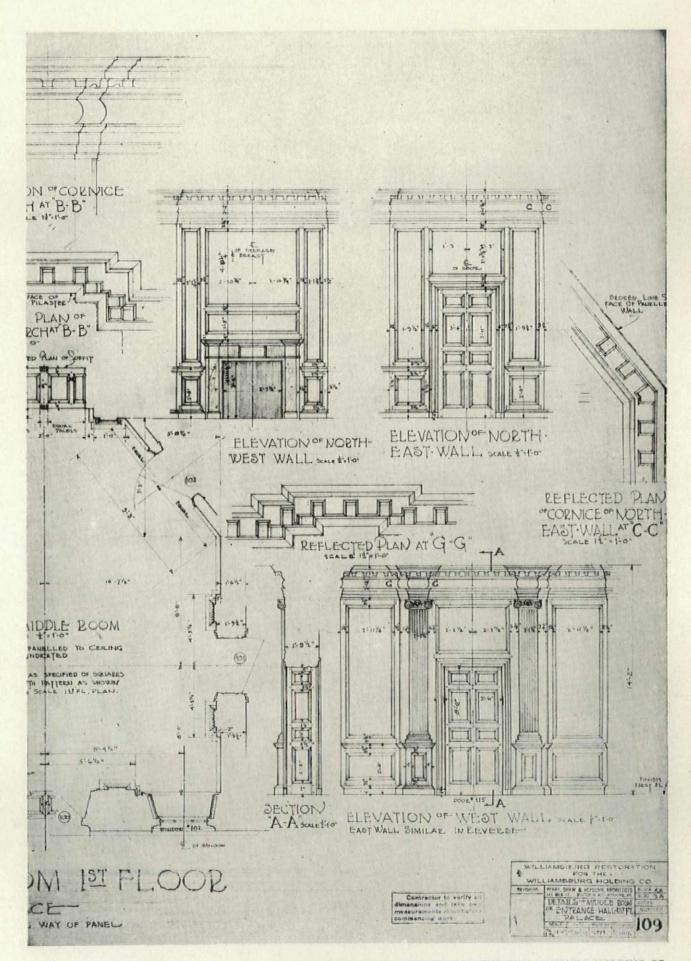
The American Institute of Architects—first, by choosing to hold its Sixty-eighth Annual Convention near and in Williamsburg, Virginia (thus giving delegates from all parts of the country a chance to see the work that has been done during the past several years in this Colonial town); and, second, by conferring Testimonials of Honor upon those who inspired, financed, and carried out a most remarkable project (namely, Dr. William A. R. Goodwin, Rector of the Bruton Parish Church; John D. Rockefeller, Jr., the Donor; Perry, Shaw & Hepburn, the Architects; and Arthur A. Shurcliff, the Landscape Architect)—has focussed the profession's attention at this time on the Restoration of Colonial Williamsburg.

What has been done there has been admirably presented in photographic form by The Architectural Record of December, 1935, and later in the American Architect, but the Editors of Pencil Points felt that their professional audience would like to peek behind the scenes, so to speak, and see at least a few of the immense number of detail drawings (upwards of ten thousand it has been estimated) that were of necessity made in carrying out the undertaking. Accordingly, after securing permission from Mr. William Graves Perry, and the promise of his cooperation, we went to Williamsburg and borrowed a number of the originals which we have reproduced on the following pages.

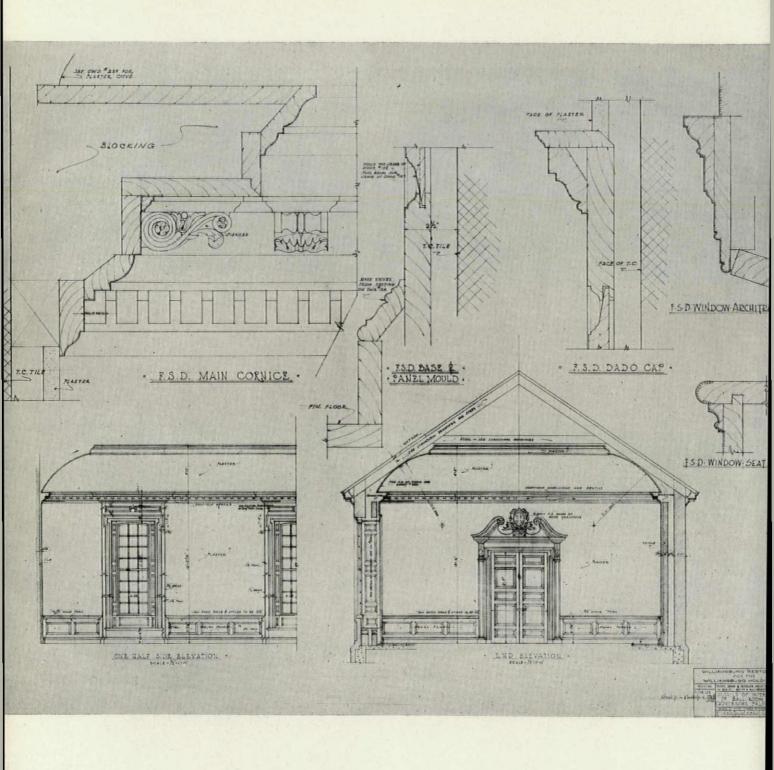
These drawings were selected with the idea of giving more definite information than can be had from photographs concerning a few of the many points of design that give to this fine early Virginia architecture its distinctive flavor. If they are studied in connection with the photographic records published elsewhere, they will give the discerning architect and designer a great deal of information which, properly digested and used with discretion, will help him to catch and apply in his own work, when appropriate, the spirit but not the letter of the Colonial work of Tidewater Virginia. We are assuming that the intelligence of our professional readers is sufficient safeguard against the stupid copying or even adaptation, in inappropriate places, of the details shown. The sincere thanks of all concerned are due to the Architects, Messrs. Perry, Shaw & Hepburn (and to Colonial Williamsburg, Inc.), for their generosity in making these private records available for study by their fellow practitioners.



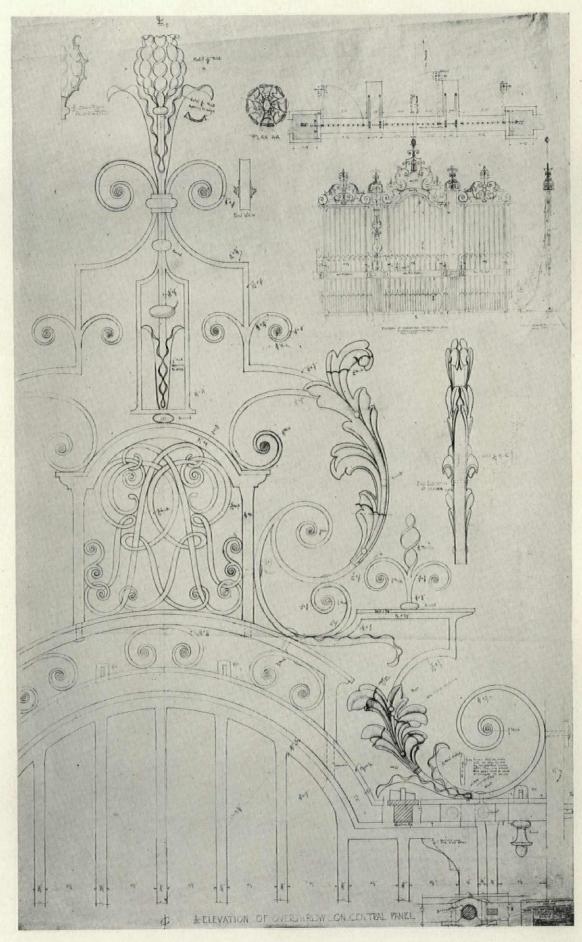
DETAILS OF "MIDDLE ROOM" OR ENTRANCE HALL OF GOVERNOR'S PALACE AT WILLIAMSBURG AS IT HAS BEEN



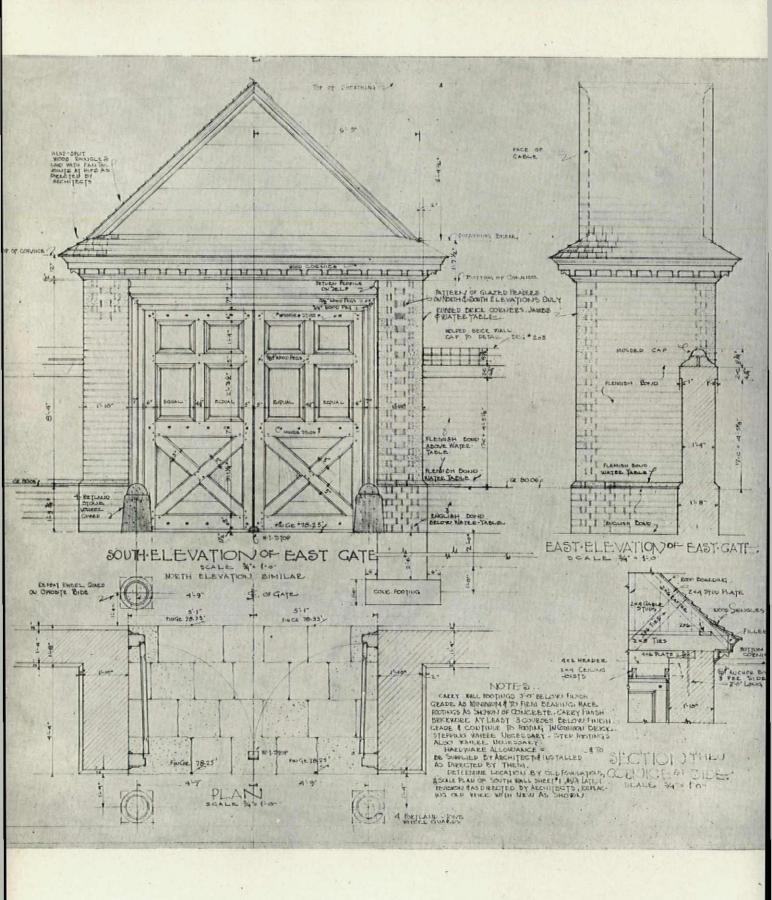
RESTORED UNDER DIRECTION OF PERRY, SHAW & HEPBURN, ARCHITECTS, FOR THE WILLIAMSBURG HOLDING CO.



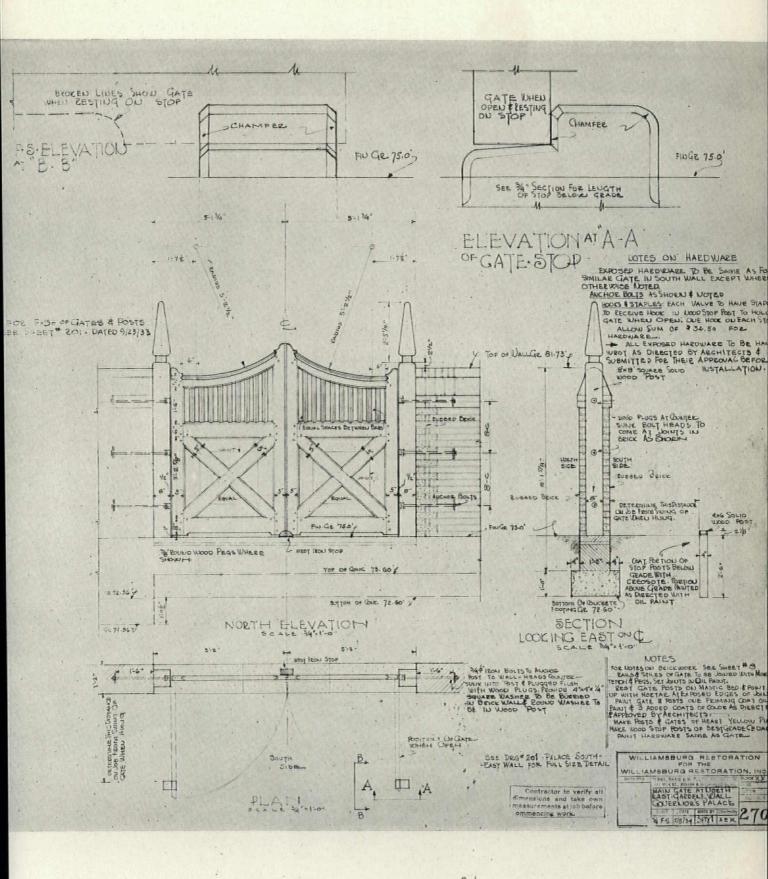
DETAILS OF INTERIOR OF BALLROOM IN THE GOVERNOR'S PALACE AT WILLIAMSBURG. THE RICH BUT NOT OVER ELABORATE CORNICE AND PANELED DADO CONTRIBUTE TO THE STATELY DIGNITY OF THE WELL PROPORTIONED ROOM AS RESTORED BY PERRY, SHAW, AND HEPBURN, ARCHITECTS



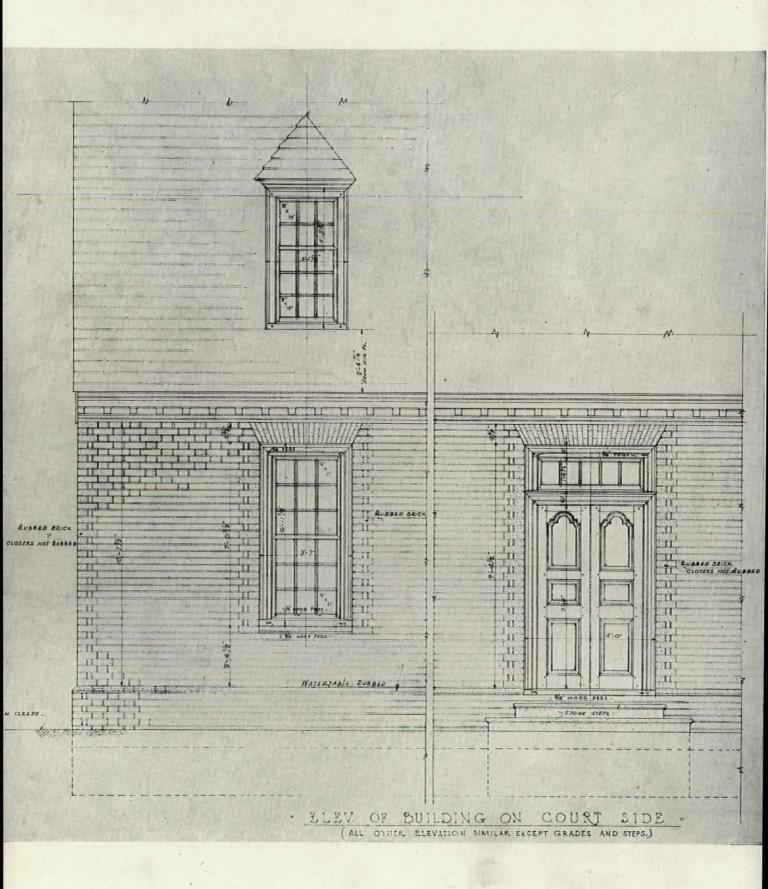
NORTH GATE OF GOVERNOR'S PALACE AS RESTORED BY PERRY, SHAW & HEPBURN, ARCHITECTS



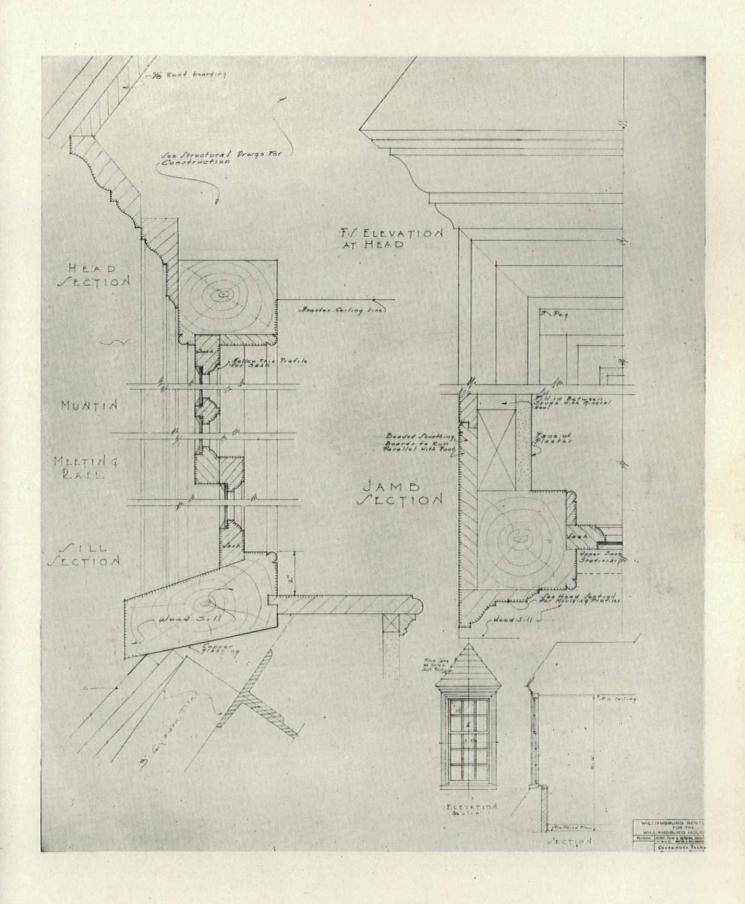
SOUTHEAST GATE HOUSE IN WALL OF GOVERNOR'S PALACE AT WILLIAMSBURG. NOTE THE BRICKWORK WITH ENGLISH BOND BELOW WATER TABLE AND FLEMISH BOND ABOVE AND THE MOLDED BRICK WALL CAP WHICH ARE TYPICAL. THE USE OF RUBBED BRICK FOR CORNERS, JAMBS, ETC., IS ALSO CHARACTERISTIC



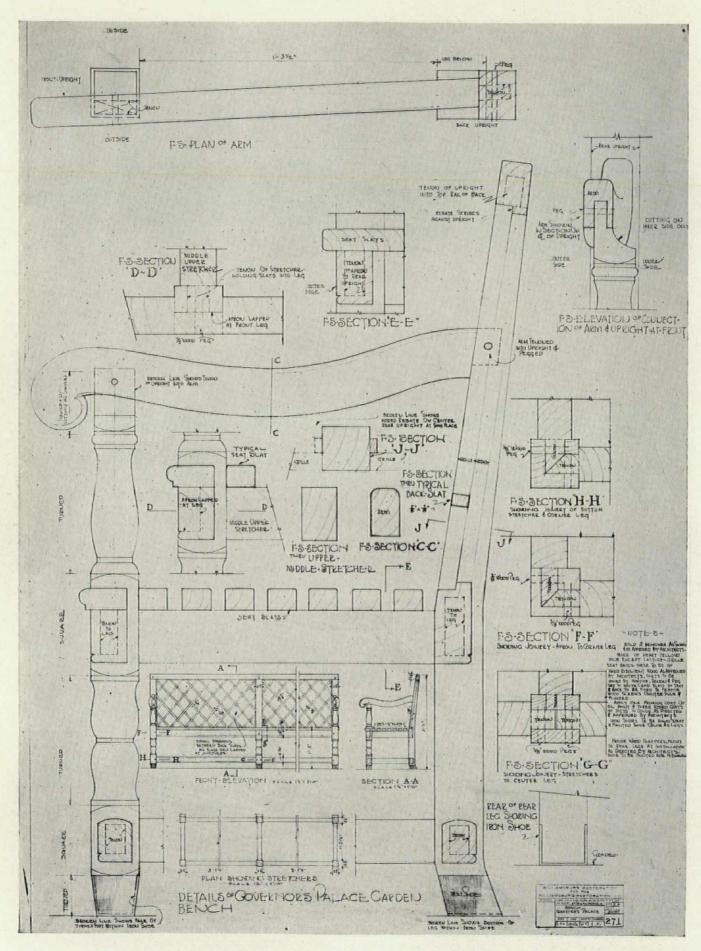
DETAILS OF WOOD GATE IN NORTHEAST GARDEN WALL OF GOVERNOR'S PALACE. SUCH DETAILS AS THIS, WORKED OUT BY PERRY, SHAW & HEPBURN, ARE AUTHENTICALLY IN CHARACTER WITH THE PERIOD OF THE ORIGINAL BUILDINGS AND HELP TO GIVE THE TRUE FLAVOR OF COLONIAL TIMES TO WILLIAMSBURG



ELEVATION OF ONE OF THE ADVANCE BUILDINGS FLANKING THE FORECOURT OF THE GOVERNOR'S PALACE. NOTE AGAIN THE RUBBED BRICK AS USED FOR CORNERS, JAMBS, WATER TABLE, AND FLAT ARCHES OVER OPENINGS. THE DORMER IS TYPICAL. PERRY, SHAW, AND HEPBURN, ARCHITECTS

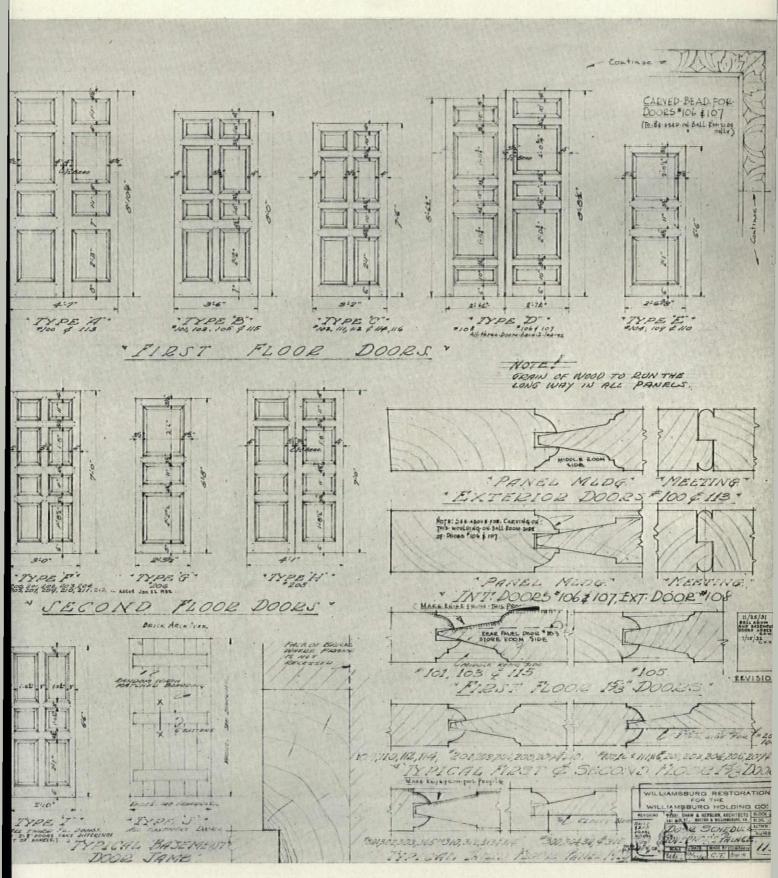


A TYPICAL DORMER WINDOW OF THE GOVERNOR'S PALACE AT WILLIAMSBURG IS HERE SHOWN IN DETAIL. THE USE OF BEADED WEATHERBOARDS LAID PARALLEL WITH THE ROOF ON THE CHEEKS OF THE DORMERS AND THE BEADING OF EXPOSED CORNERS OF WOOD MEMBERS IS CHARACTERISTIC OF WILLIAMSBURG WORK



DETAILS OF BENCH IN GARDEN OF GOVERNOR'S PALACE AT WILLIAMSBURG-PERRY, SHAW & HEPBURN, ARCHITECTS

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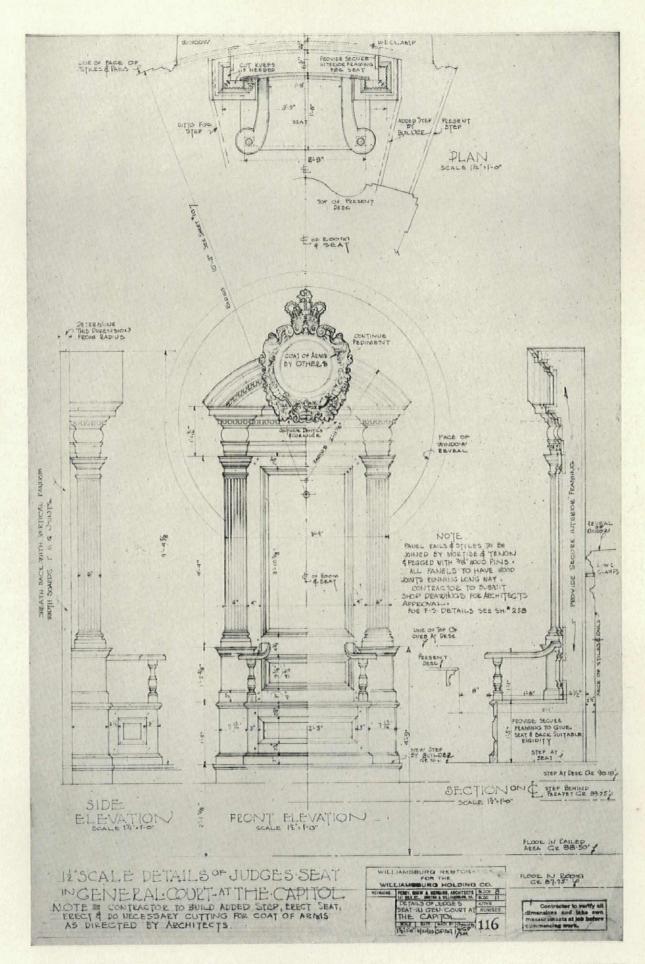


DOOR DETAILS OF THE GOVERNOR'S PALACE AT WIL-LIAMSBURG AS RESTORED UNDER THE DIRECTION OF PERRY, SHAW, AND HEPBURN CARRY CONSISTENCY OF SCALE FROM THE BIG DOORS OF THE PRINCIPAL ROOMS RIGHT THROUGH TO THE MINOR ROOMS AND CLOSETS OF THE SECOND AND THIRD FLOORS ABOVE

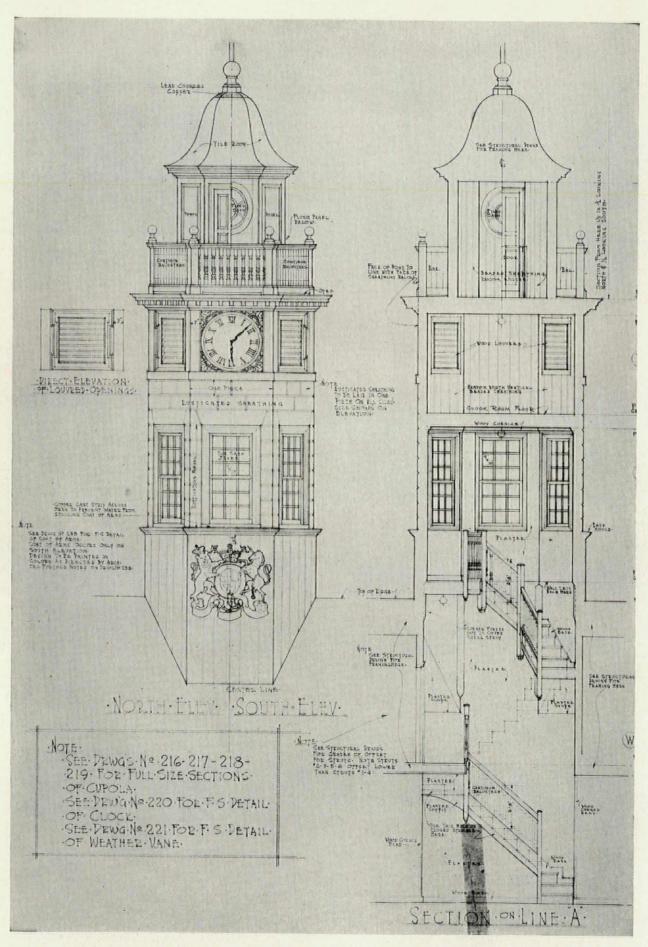


Photo by F. S. Lincoln

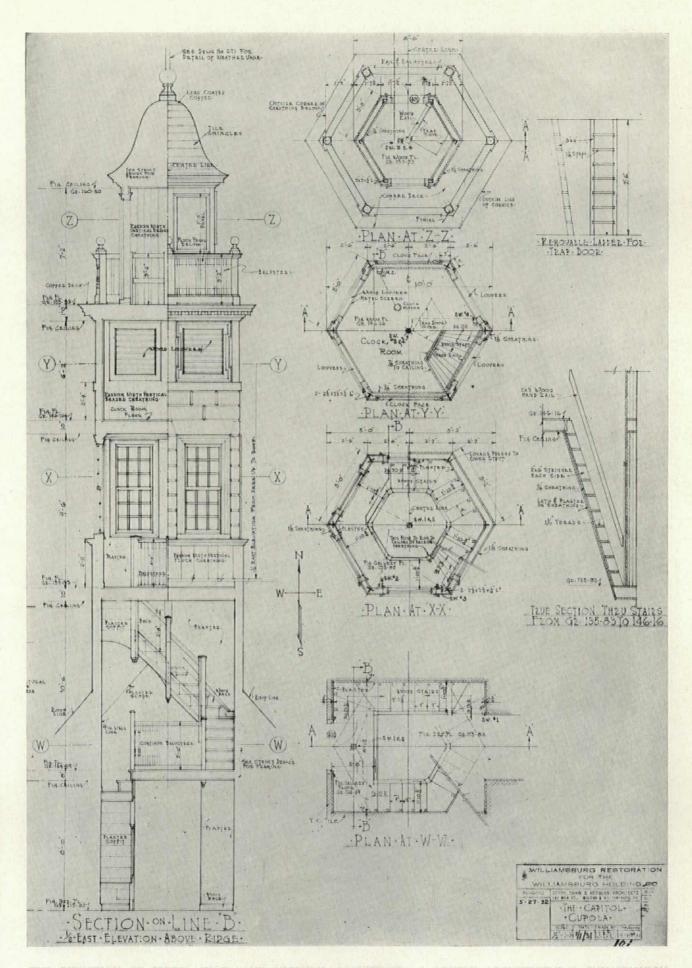
LOOKING FROM THE SOUTHWEST AT THE CAPITOL AT WILLIAMSBURG, RESTORED UNDER THE DIRECTION OF PERRY, SHAW, AND HEPBURN. DETAILS OF THE GEN-ERAL COURTROOM AND THE HEXAGONAL CUPOLA OF THIS BUILDING ARE REPRODUCED ON THE FOLLOWING PAGES FROM THE ARCHITECTS' ORIGINAL DRAWINGS



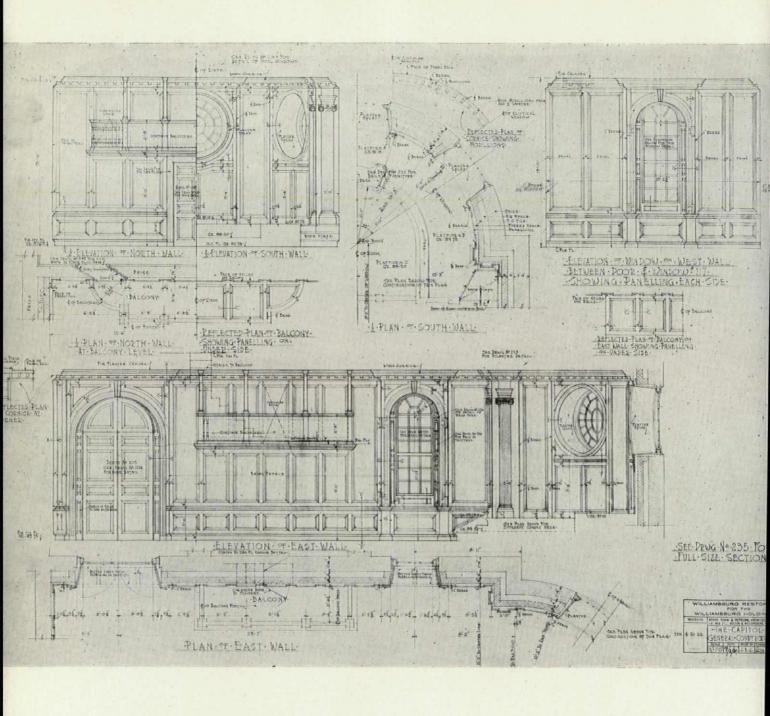
DETAILS OF JUDGE'S SEAT IN THE GENERAL COURT RESTORED BY PERRY, SHAW, & HEPBURN, ARCHITECTS



DETAILS OF FINE HEXAGONAL CUPOLA OF THE CAPITOL AT WILLIAMSBURG, VIRGINIA, AS RESTORED UNDER 238



THE DIRECTION OF PERRY, SHAW, AND HEPBURN, ARCHITECTS — A LOVELY ARCHITECTURAL PUNCTUATION

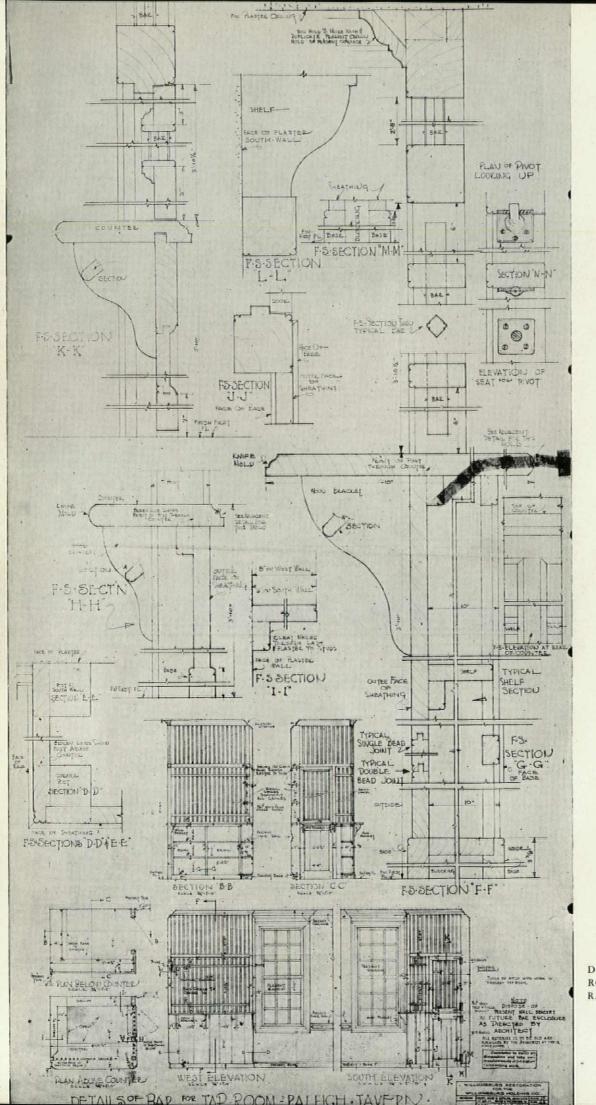


DETAILS OF GENERAL COURTROOM IN THE CAPITOL AT WILLIAMSBURG AS RESTORED UNDER THE DIRECTION OF PERRY, SHAW, AND HEPBURN. THE CIRCULAR WINDOWS AT THE END OF THE ROOM, WITH THEIR DEEP REVEALS, FORM A STRIKING FEATURE AND HELP FOCUS ATTENTION TO THE JUDGE'S DIGNIFIED SEAT



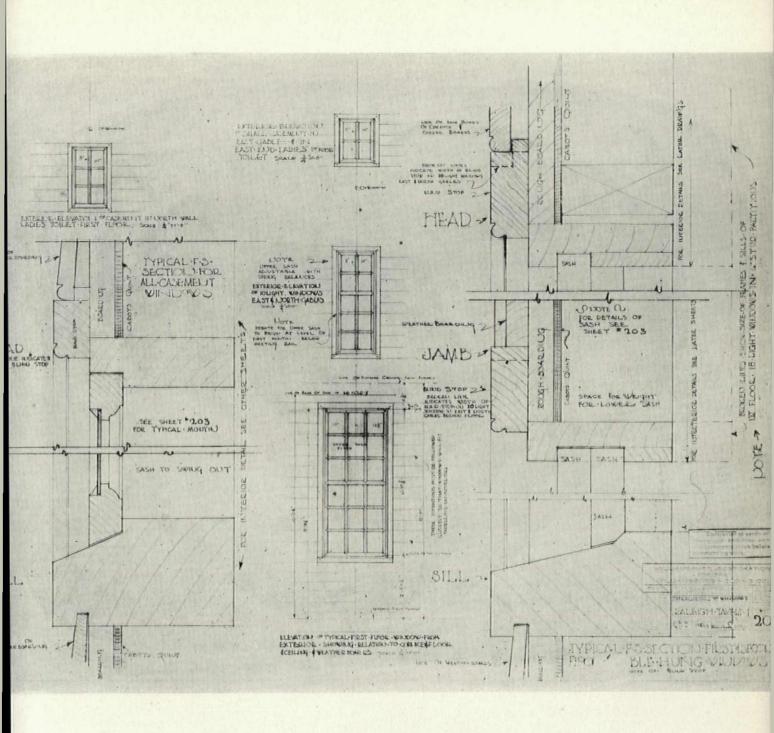
Photo by F. S. Lincoln

A VIEW IN THE TAPROOM OF THE RALEIGH TAVERN AT WILLIAMSBURG, SHOWING THE BAR, AS RESTORED BY PERRY, SHAW, AND HEPBURN. OLD PINE WOODWORK AND FURNISHINGS AUTHENTICALLY OF THE PERIOD COMBINE TO GIVE THE NEAREST POSSIBLE APPROACH TO THE ORIGINAL EARLY INN ATMOSPHERE



DETAILS OF TAP-ROOM BAR IN THE RALEIGH TAVERN

M A Y 1 9 3 6



DETAILS OF TYPICAL WINDOWS IN THE RALEIGH TAVERN AT WILLIAMSBURG AS RESTORED UNDER THE DIRECTION OF PERRY, SHAW, AND HEPBURN. THE TYPICAL FAT MUNTIN SECTION, NOT SHOWN ON THIS SHEET, IS SIMILAR TO THAT OF THE DORMER WINDOW ILLUSTRATED IN THE DRAWING SHOWN ON PAGE 233

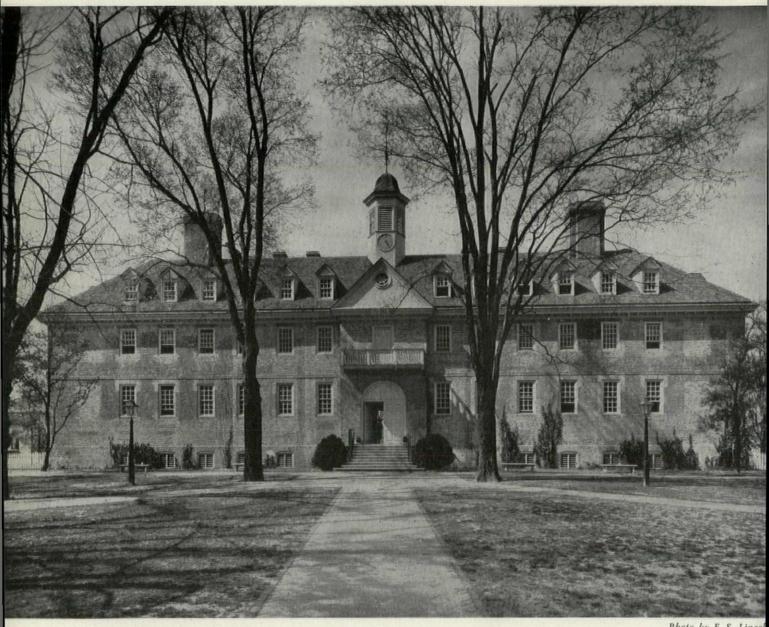
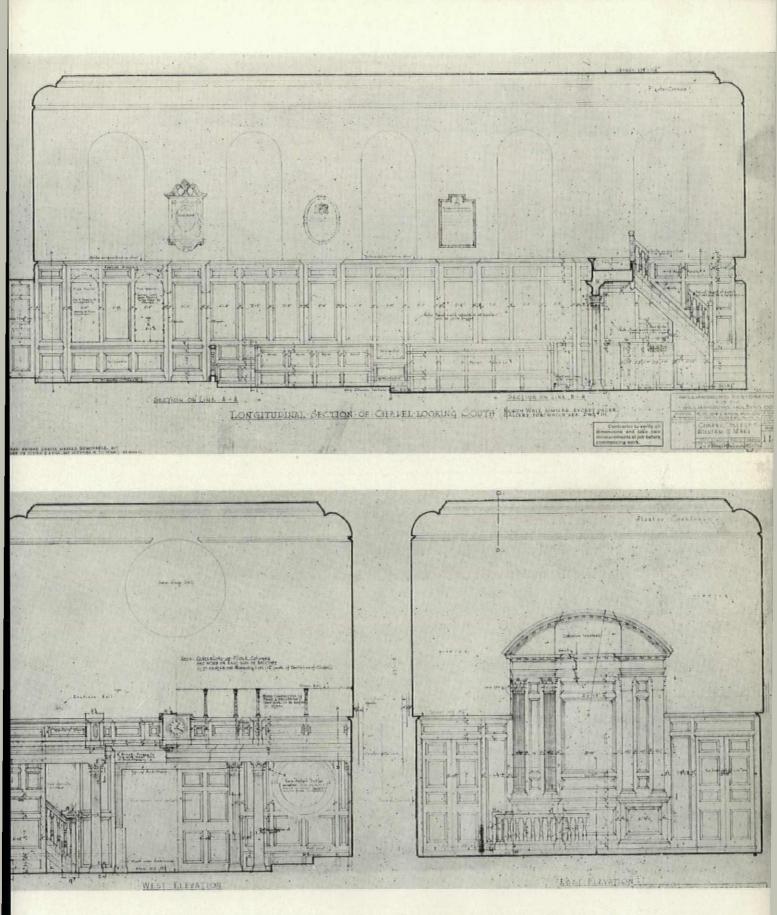
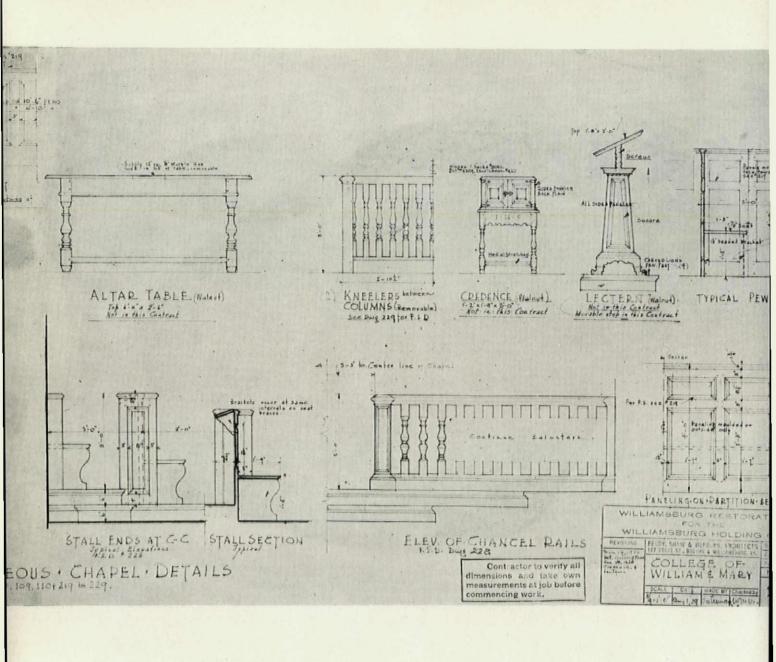


Photo by F. S. Lincol

THE SO-CALLED "WREN BUILDING" OF THE COLLEGE OF WILLIAM AND MARY AS RESTORED UNDER THE DIRECTION OF PERRY, SHAW, AND HEPBURN. AN ADAPTATION OF THE ORIGINAL DESIGN BY SIR CHRISTOPHER WREN BEGUN ABOUT 1695 BUT DAMAGED BY SEVERAL FIRES. OUTSIDE WALLS LARGELY ORIGINAL



INTERIOR ELEVATIONS OF CHAPEL IN THE WREN BUILDING OF THE COLLEGE OF WILLIAM AND MARY AS RESTORED BY PERRY, SHAW, AND HEPBURN FOR THE WILLIAMSBURG HOLDING COMPANY. THE PANELING IS EXECUTED IN EDGE GRAIN PINE AND FINISHED NATURAL, GIVING A RICH WARM COLOR TO THE ROOM



DETAILS OF SOME OF THE CHAPEL FURNITURE IN THE WREN BUILDING OF THE COLLEGE OF WILLIAM AND MARY AS RESTORED UNDER THE DIRECTION OF PERRY, SHAW, AND HEPBURN. REPRODUCED FROM EXISTING EXAMPLES IN VIRGINIA AND FROM PIECES FOUND IN CONTEMPORARY ENGLISH SCHOOLS AND COLLEGES

# THE GREAT LAKES EXPOSITION

BY JOSEPH H. DEACON

OF the four million visitors expected to attend Great Lakes Exposition at Cleveland this summer, few will be able to analyze the festive spirit stirred by the sight of the Exposition as a whole or in detail.

But visiting architects will see—back of the treatment of the grounds, the buildings, the landscaping and the details—a deliberate and adroit plan to introduce visitors unknowingly into the emotions of a big show built around the commerce, industry, and culture of the Great Lakes district.

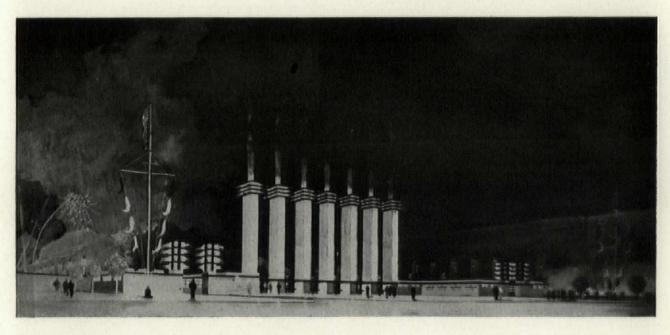
Referring to the buildings, Anthony Thormin, architect for the Exposition, describes them as "temporary housing, designed to give the feeling of an Exposition, rather than monumental structures built for permanence." According to Thormin, any buildings erected for display purposes for a short period fall short of their possibilities if they merely protect the goods that they house, or if they follow conventional or classic design. They may be of the best school, and might achieve perfection in a setting other than the exciting

atmosphere of a big fair, but Exposition structures should be for show purposes.

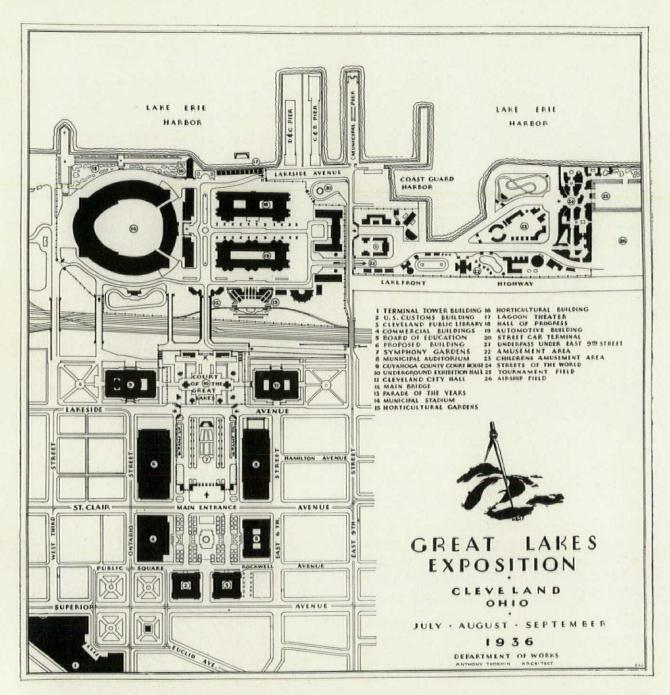
Thormin believes that such buildings should be treated to bring out the spirit of festivity. Their decorations should not be definitely architectural in treatment as in the case of permanent structures, but rather devices, always in good taste, to speed up the spirit of the occasion of which they are a part.

So, architects visiting Great Lakes this summer will see in the broad perspective of the Exposition a festive motif, recurring throughout, binding the whole together like the central theme of a symphony whose individual movements lend freshness to the basic theme. But if the Great Lakes may be compared to a symphony, it is a simple one, nothing grandiose — an ultra-modern and, in this case, truly American pattern.

The fact that the Exposition entrance is revealed almost as one steps from the Terminal Building to the Public Square in the heart of Cleveland indicates an interesting architectural problem in shifting the visitors



MAIN ENTRANCE OF CLEVELAND'S GREAT LAKES EXPOSITION TO OPEN JUNE 27. DESIGNED BY ANTHONY S. CERESI



GENERAL PLAN OF CLEVELAND'S GREAT LAKES EXPOSITION SHOWING ITS RELATION TO EXISTING CIVIC CENTER

in a breath from the center of the sixth city into the atmosphere of an Exposition. A most interesting side light is the fact that the main entrance is located upon Cleveland's Mall, a piece of city planning begun years ago. Original thought as to the form of the big fair ran parallel to the knowledge that the Exposition would be designed into a \$25,000,000 setting already built for it. The Mall inducts the visitors into the grounds, the Public Auditorium close by on the right, an actual part of the Exposition grouping. They secured the services of C. E. Conley, City Planning Engi-

neer who has lived with the Mall project for many years. Mr. Conley has, from the first, served as liaison representative between City Plan and Exposition plans. The result is a harmonious treatment that reveals the best in both.

Entering Great Lakes Exposition area through entrances designed by Anthony S. Ceresi to usher visitors instantly from the commercial atmosphere of Cleveland's downtown into this summer's playground for the Lakes section, attention centers upon the land-scaped Court of the Great Lakes, flanked by

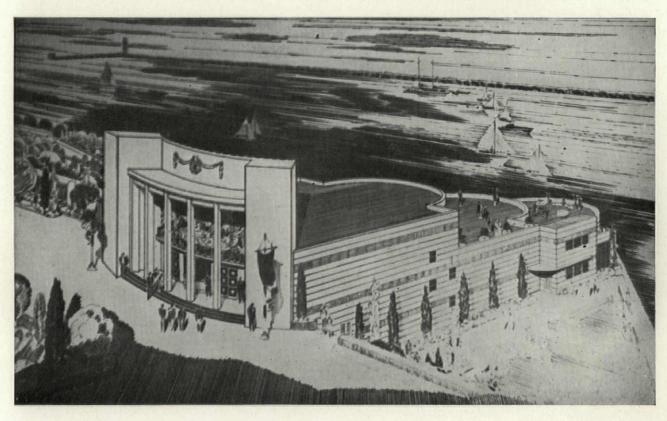
Cleveland's City Hall and the County Courthouse. Within the Court, several model homes, each of different materials, will prove an unusually popular feature at this time when home building is straining at the dam, and about to burst through. The shell in which Cleveland's famous symphony orchestra will play daily throughout the 100 days of the Exposition is located in the Court area. It is interesting to note that close proximity to the Public Auditorium will make it possible to hear concerts rain or shine, since, in case of threatening weather, the orchestra will move only a few hundred feet into one of the several halls of the Auditorium. Incidentally, this building will house the American Legion, National Republican, and other conventions through the summer. Cleveland plans a convention a day for the Exposition period.

At the northern edge of the Court area, visitors will see the panoramic view of the Exposition: on the extreme left, Cleveland's municipal stadium, largest in the country; on the far right, "Streets of the World," the international village that will be a main part of the amusement section; dominating the center of the picture, the Automotive Building and Hall of Progress, the latter devoted largely to public utility type displays. And,

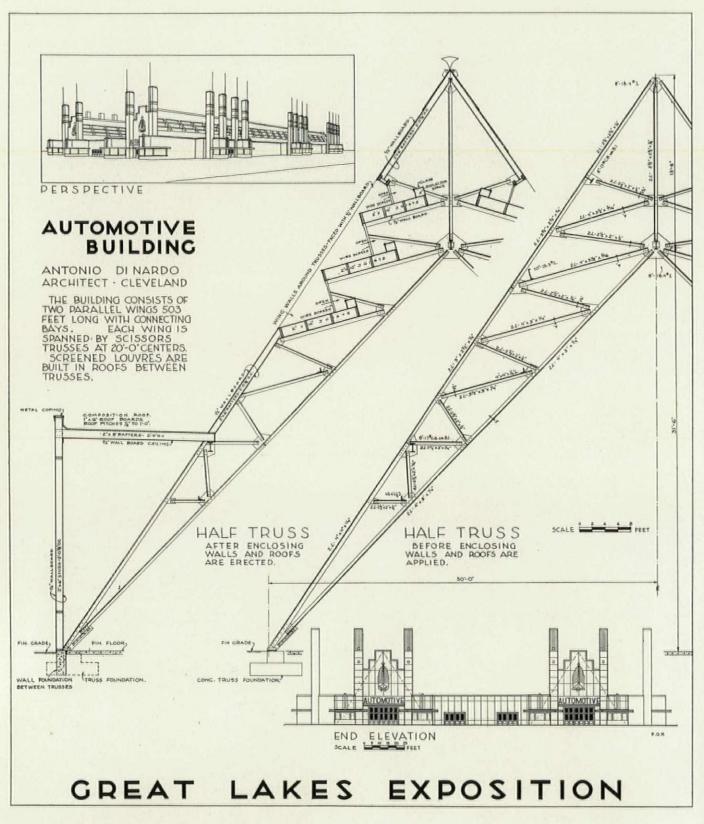
as a background, Lake Erie. Showing again how the Exposition is designed into a prepared setting, docks of passenger steamship lines that thread the Great Lakes are almost at the center of the grounds that extend about a mile along the lake front. The lakes themselves, furnishing a main Exposition theme of shipping in which the lakes lead the country, ripple at the Exposition's door.

Unusual use of enormous louvres, opening more than half of the Automotive Building's roof to Lake Erie's breezes, will hold the attention of architectural and engineering minded visitors. The building was designed by Antonio DiNardo. Scissors trusses with 60-foot spans, chord members supporting the louvres, are used throughout the building. Louvres such as DiNardo designed will, of course, give unusual indirect lighting as well as ventilation. They are screened against insects and dust. Displays within the building will conform to the general building theme.

Hays & Simpson designed the Hall of Progress. C. Merrill Barber, consulting engineer, solved the problem of engineering a flat roof building, 30-foot column space, to house exhibits for only 100 days, by using rigid frames of wood as his material, gaining low original cost as well as high salvage value.



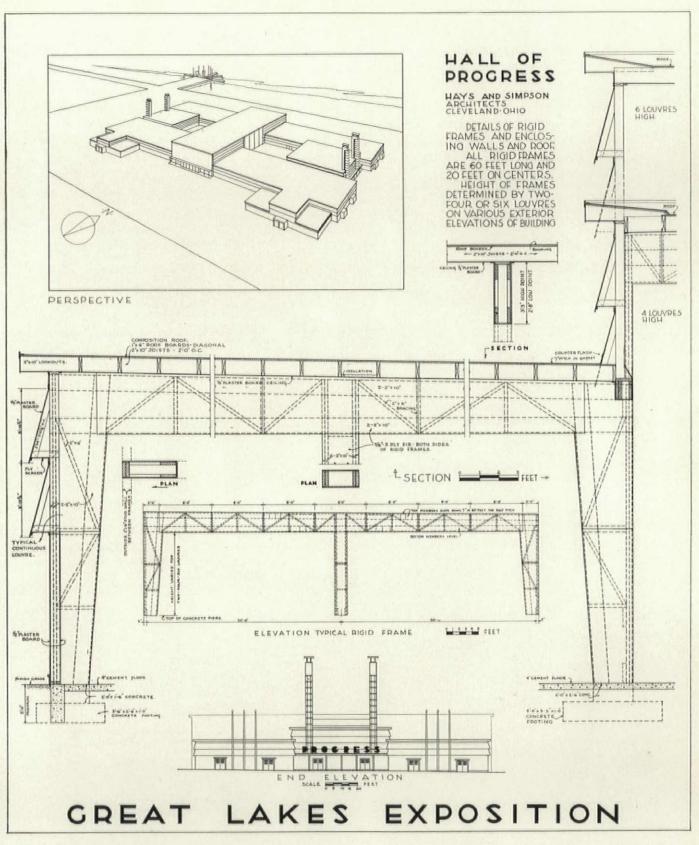
THE HORTICULTURAL BUILDING, BY WARNER AND MITCHELL, WILL HAVE 20,000 SQUARE FEET OF EXHIBIT SPACE



Plywood, 5-ply—5/8", covers light truss work of 2 x 6 and 2 x 10 joists. The plywood, held by double headed nails, becomes an integral part of the stress members. The 60-foot rigid frames are made of two 30-foot spans. Exterior leg members of the frame are two

feet at the base, four feet at the top to absorb lateral strains.

This being the first time such construction has been used under conditions found beside the lake, by arrangement with Prof. F. L. Plummer, Case School of Applied Science,



two seniors took testing of building models as their thesis. Under conditions that duplicated those found within the Exposition, ply-covered models withstood vertical and lateral strains proportionally four times as great as stresses which the building itself will bear. R. G. Frisbee, Director of Works, has "handled more expositions than any man in the country" according to Lincoln G. Dickey, General Manager and veteran director of public events throughout the country. Anthony Thormin, Architect, a Carnegie and

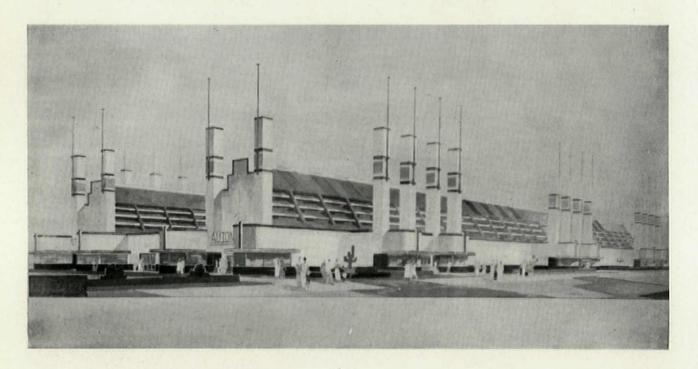
Massachusetts Tech man, has been associated with Buehl Foundation, builders of Chatham Village, Pittsburgh. Carl Guenther, a product of Western Reserve University and Ecole des Beaux Arts, holder of the 24th Paris Prize in architecture, is designer. A. H. Heidenrich, Case, 1905, who electrified the Boston-Revere railroad and has handled many hydro-electric plants throughout the country, is Engineer of the electrical department. Cleveland's commanding position in the field of lighting will be accentuated even more by electrical displays now under way in cooperation with laboratories of well-known manufacturers.

Hall of Progress was designed by Walker & Weeks, the Horticultural Building by Warner & Mitchell. Donald Gray, landscape architect, will handle the Horticultural Gardens beside the lake. Landscaping throughout will be in keeping with the modern spirit of the buildings. "Parade of the Years," produced by Edward Hungerford, who gave "Wings of the Century" to Chicago's Exposition, will be shown daily. The sets for the spectacle are designed by Richard Rychtarik. Rychtarik also designed "Streets of the World," the inter-

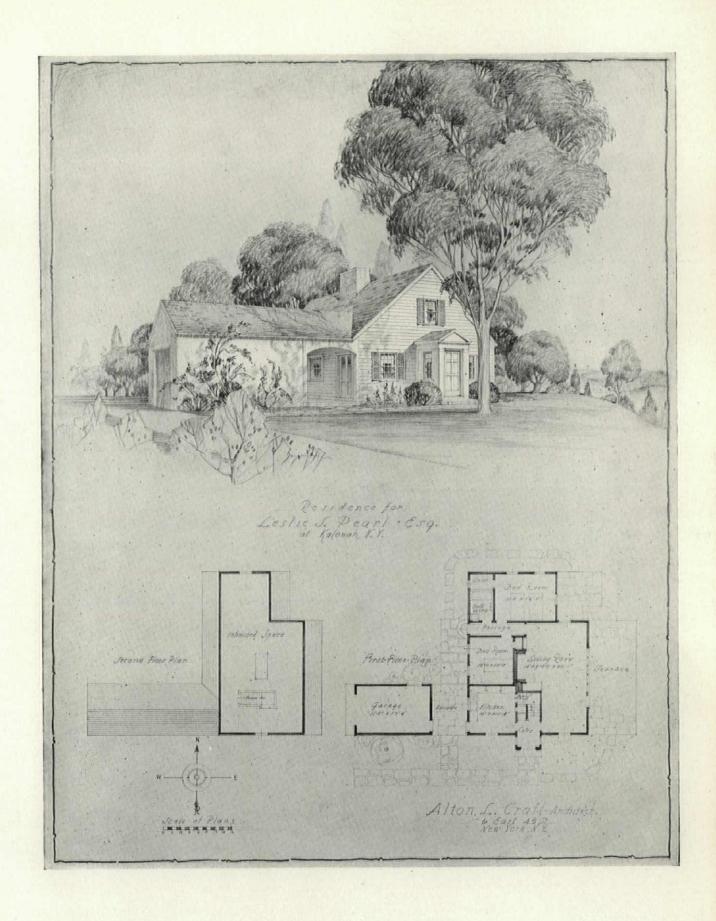
national village covering many acres, that will bring authentic old-world atmosphere from countries that have contributed to Great Lakes population.

The main purpose of the Exposition is to present to residents of the Lakes district a dramatic picture of their own commerce and industry. While the section produces much of the finished, over-the-counter goods of the country, it also makes most of the machinery that produces those goods as well as a host of the basic materials that enter into finished products. It is natural, of course, that "The Romance of Iron and Steel" should play a main part in a Great Lakes presentation. This exhibit will be in charge of Dr. A. A. Bates of Case School, and will be housed in the Lakeside exhibition hall that extends below the Mall. Mine shafts, prehistoric smelting methods, mediæval blast furnaces and forges will be contrasted with the most modern methods of the metallurgist and engineer.

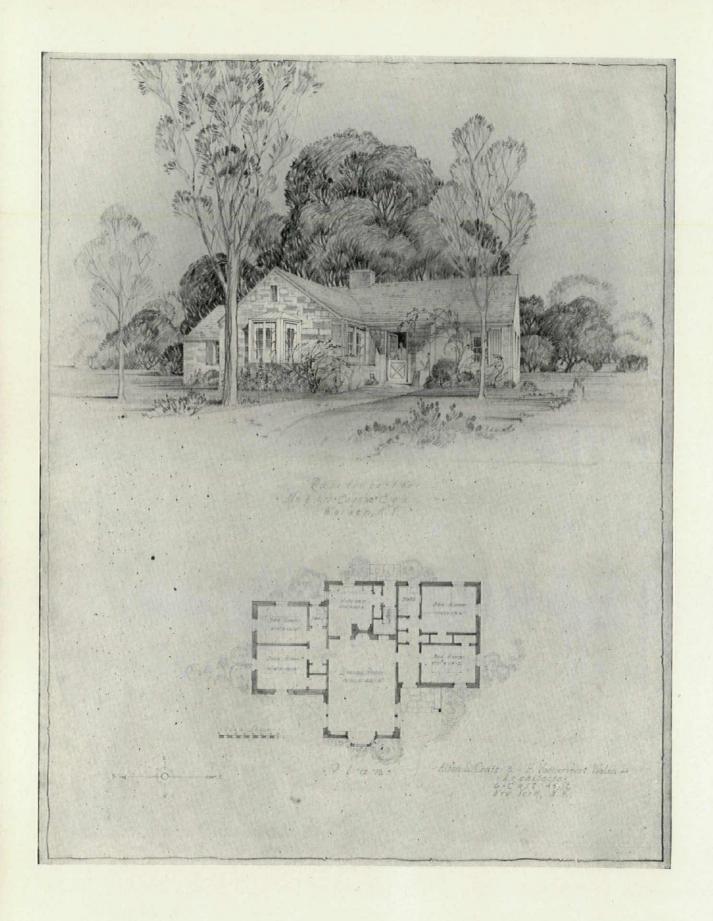
Visitors who do not know architecture will feel the result of effect predetermined by Great Lakes architects. Architects will see the plan back of the results.



THE AUTOMOTIVE BUILDING AT CLEVELAND'S COMING EXPOSITION WAS DESIGNED BY ANTONIO DI NARDO, ITS UNUSUAL AND APPROPRIATELY MODERN STRUCTURAL DESIGN IS SHOWN BY THE DRAWING ON PAGE 250



DESIGN BY ALTON L. CRAFT FOR A FOUR-ROOM HOUSE WITH UNFINISHED SECOND FLOOR THAT CAN LATER BE MADE INTO ADDITIONAL BEDROOMS AND BATH. WHEN THE CHANGE IS MADE, THE BEDROOM NEXT THE KITCHEN WILL BECOME A DINING ROOM. THE HOUSE IS FOR SUMMER USE AND DINING IS DONE OUTDOORS



DESIGN BY ALTON L. CRAFT AND H. VANDERVOORT WALSH FOR A SMALL HOUSE OF SIX ROOMS ARRANGED TO GIVE PRIVACY FOR AGED RELATIVES IN THE NORTHERN BEDROOMS WHICH MAY EVENTUALLY BE CONVERTED INTO A DINING ROOM AND PANTRY, AND FOR THE FAMILY OF TWO ADULTS AND A CHILD ON THE SOUTH



### It's Yours to Build

Collier's House, designed for modern living by Architect Edward D. Stone and described in the March 28th issue, scored a direct hit. Complete working plans and specifications for which you would have to pay hundreds of dollars are yours merely for the cost of reproducing and mailing them—\$3.

### Address: COLLIER'S HOUSE

Collier's, The National Weekly 250 Park Avenue, New York City PLEASE DO NOT SEND CURRENCY

### WHY DO THEY DO IT?

WHAT do they get out of it? And is it worth it?

The national weekly: Reader interest and a few more advertisers of Building Materials and Equipment. The resentment of the architectural profession.

Mr. Edward D. Stone: One commission and some publicity and the setting up of an active force making it more difficult to obtain future commissions.

The buyer of the plans: The false idea that you can get something for nothing; that three dollars buys the ability of an architect of Mr. Stone's caliber, or even that of a less talented man. A lowered conception of the position of the architect and what he does for his clients. The start of real trouble unless an architect is employed to conduct the supervision of the actual building and in the making of the contract with the builder.

The Architectural Profession: The emphasis on the need to educate the public and the editors of lay magazines to an understanding that the architect does more than make plans. To them it may be worth it if this education is carried on at once and continually in every town and city by every architect. This education should be directed to demonstrate that a quality house can only be obtained if there is quality design, quality materials, and quality construction. The architect is necessary for the success of all three.

RALPH WALKER, F.A.I.A.

# SOME WORDS BY WAY OF CLARIFICATION

BY KENNETH REID

In another part of this issue, we have printed two letters that came to us in response to the letter of Oliver Whitwell Wilson, published last month, in which he suggested enjoining the Federation of Architects, Engineers, Chemists, and Technicians against the use of the word "Architect" in the title of their organization.

Mr. Wilson's indignation had been aroused by a minor and merely vocal disturbance (of which he was an eye and ear witness) in the New York City Hall, participated in by some members of the F. A. E. C. & T. It was increased by newspaper accounts of a more serious conflict the following day (at which he was not present) in which police broke up an alleged attempt on the part of several organizations, including the F. A. E. C. & T., to hold a parade from one meeting place to another in defiance of the Mayor's orders. As it turned out, the police were at fault in this instance and the responsibility for the violence that occurred was afterwards placed on their shoulders by a Citizens' Jury which conducted an investigation of the affair.

Be that as it may, Mr. Wilson's sensibilities were outraged by the fact that architects, or members of an organization partly composed of architects, should take part, first, in the oral expression of defiance to the authorities and, second, in an outdoor battle with police that was reported at length in the public prints. It seemed to him that architects, presumably interested in maintaining a position of dignity in the eyes of the general public, should not have behaved thus, no matter what their provocation or how oppressed they were by economic forces. He felt that the name of "Architect" had been dragged in the mire and that something should be done about it—so he wrote his letter.

Before publishing it we pointed out to him that his logic was somewhat less than perfect when he reasoned that since it is a punishable offense in the State of New York to misuse the title of "Architect" in certain ways definitely stated by law, it is or should be equally punishable for an architect or group of architects to defy the rulings of duly constituted public officers in matters having nothing to do with architectural practice. In spite of this, he persisted in his point of view, and, having in mind the famous utterance of Voltaire, "I wholly disapprove of what you say and will defend to the death your right to say it," we printed the letter as written. We felt that our readers would not fail to detect the fallacy, but that some of the other thoughts contained in the letter might do some good by calling the attention of the Federation's membership to the necessity for circumspect behavior in public at all times if even the appearance of evil is to be avoided.

To a body engaged so valiantly in struggling for the economic improvement of the conditions under which architectural employees are working, such necessity should be evident. Public opinion—which may be either a powerful ally or a mighty opponent of groups engaged in such a battle—is not altogether based, in this imperfect world, on the merits of a given controversy, but is often thrown against those who conduct themselves in ways that seem unbecoming.

We have discussed the matter at some length because we have been asked by the Federation to clarify our editorial position with respect to it. We are in complete accord with the general aims of any group that seeks to improve the economic standing of either architects or draftsmen (not at each other's expense), though we retain the right to differ as to the methods employed in the attempt. We believe in adequate payment for both in return for adequate services rendered, and will support any effort that promises to accomplish this end. We believe in the unity of the profession in the sense that both architects and draftsmen are members thereof and that their real economic interests are the same. We believe that a satisfactory condition will be reached only when both elements realize this and join forces to fight their common battle against the ills that beset them from without. And finally, we believe that the conduct of this battle need lack neither strength nor dignity.

## GUPTILL'S CORNER



### WASH COMPETITION

Yes Sir and Yes Marm, here it is! Here's your chance to try your skill and luck at another of the stupendous, marvelous, unexcelled, and unexpurgated GUPTILL'S CORNER SKETCH COMPETITIONS. Grab a brush, slop a bit of paint on some paper, send it in and win one of the magnificent, prodigious, absolutely swell prizes! Have some fun! Learn something! Gain glory! You don't have to gamble much either in time or money, so get busy. This may be the last of these sketch competitions for a while, by the way, as I'm having a lot of requests for little competitions on the design of ornamental detail, etc. So don't wait for the next one but get under way now. Time's a-wastin'.

GUPTILL'S CORNER SKETCH-COMPETITION No. 3: SKETCH-ING FROM THE PHOTOGRAPH IN WASH

PROBLEM. The problem is to make an effective sketch (not rendering) in wash alone of the photographic subject published on page 273 of this issue of PENCIL POINTS. By "wash" is meant black water color such as lamp black or ivory black, diluted to suit. Ink, applied with the brush in diluted form, is acceptable. Colors, including brown, are forbidden, as is undiluted black. The contestant is not expected to make a slavish copy, exact in every detail, but rather to interpret the building and its surroundings as though he were actually before them, making an outdoor sketch. All the main architectural elements of the subject must be shown, and at approximately the same proportions as in the photograph: it is not enough to select a limited area, such as a doorway, and draw that. Inconsequential details can, however, be omitted or suppressed. The complete surroundings need not be drawn, and the portions included can be somewhat recomposed: trees can be made larger or smaller, or changed in position or detail; vines or bushes can be added or omitted, etc. Appropriate figures, clouds, or other accessories are permissible. Tones of light and dark throughout the entire subject can be changed as desired. The light can be assumed to fall from any angle.

DRAWING. A contestant can submit one or more drawings, but no contestant is eligible for more than one prize. Each drawing must be in wash applied with the brush on white paper measuring exactly 11" x 14". Mounted water color paper (board) is especially recommended. Unmounted t r a c i n g paper is not acceptable. The paper can be placed vertically or horizontally. The subject matter must be larger or smaller than in the photograph as evidence that it was not transferred. The subject can be vignetted (allowed to fade at the edges) or not. Border lines are optional, as is a lettered title.

are optional, as is a lettered title. NOM DE PLUME. No drawing is to be signed, nor is to contain any identifying mark with the exception of a nom de plume or device which must appear at small scale in place of the usual signature. With each drawing there must be enclosed a plain, opaque, sealed envelope containing the true name and address of the contestant, and bearing on the outside his nom de plume. The envelopes will not be opened until after the awards have been made.



KEEPAN EYE ON THE CALENDAR

DELIVERY. Drawings must be mailed flat, postpaid, fully protected against rolling or folding, to A. L. Guptill's Corner, PENCIL POINTS, 330 West 42nd St., New York, N. Y., in ample time to be delivered on or before June 22, 1936. Drawings will be given every reasonable care, but are at the owner's risk from the time they are sent until returned.

JUDGMENT. The drawings will be judged late in June by a qualified Jury appointed by PENCIL POINTS. Judgment will be based on artistic merit. Composition and logical expression of the subject matter will have as much weight as technical excellence. Immediately the drawings are judged, the winning contestants will be notified by mail. General announcement of the results will appear in the July issue, a copy of which will be sent to every contestant.

THE PRIZE DRAWINGS. The prize drawings, and report of the Jury, will also be published in the July issue. These drawings are to become the

property of the Reinhold Publishing Corporation, and the right is reserved to publish or exhibit any or all of the other drawings. The drawings of unsuccessful contestants will be returned, postpaid, within a reasonable time.



#### BE A HAPPY PRIZE WINNER

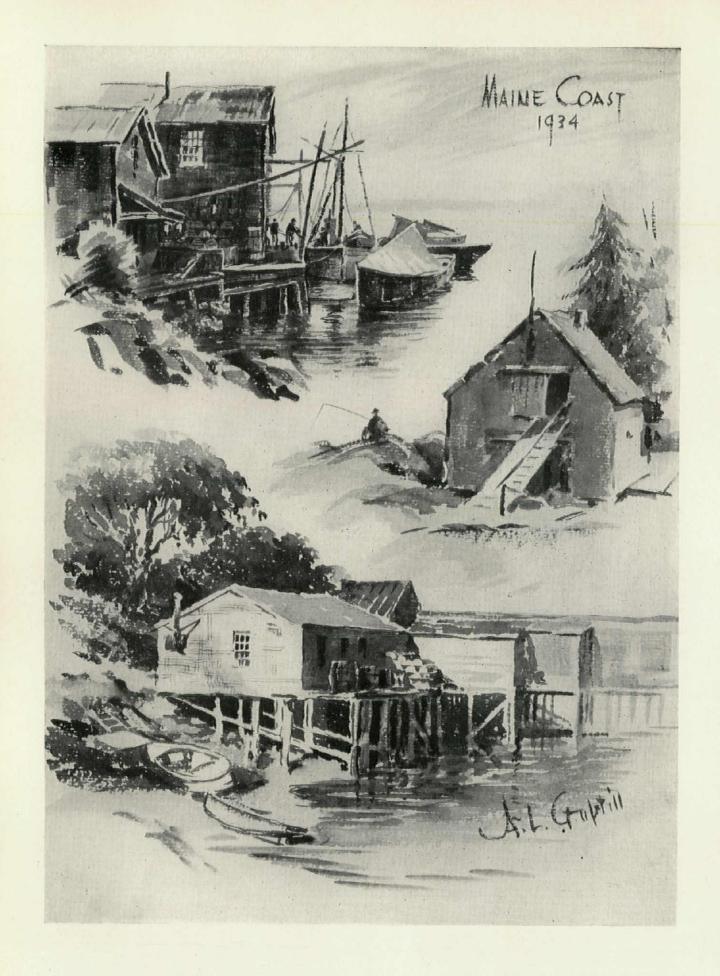
PRIZES. There are no cash prizes. All prizes are in the form of PENCIL POINTS Books, selected from the list printed on page 36, Advertising Section, of this issue. Sixty-five dollars' worth of books will be given in all, as follows:—First Prize, \$25; Second Prize, \$15; Third Prize, \$10; three Fourth Prizes, \$5 each. These books will be sent postpaid as soon as selected by the winning contestants. Mentions (honorary) may be awarded at the option of the jury.

The sheet of wash sketches overleaf, made at or near Boothbay Harbor, Maine (where Cornerers will recall I have my summer classes at Frank Allen's Art School), is not meant to hint at what the contestant should do in this present competition, but is shown only as a typical example of what can be done with informal subjects when time is at a premium. These sketches were painted on rough water color paper in ivory black water color, diluted to suit, the technique being somewhat dry. When I say "dry" I mean that no washes were prepared ahead of time to be "laid" as in the formal problems with which the architect is usually more familiar. Instead, the brush was dipped directly in the pigment and then, for the most part, drawn across the surface of the paper in a somewhat crayon-like manner. The little whites in a few cases were purposely left bare. In others they popped through the solid tone during the drying process. They give an effect of a greater amount of detail than was actually drawn, producing at the same time textural characteristics of interest. A square-pointed brush was used for most of this work, which, as reproduced, has been considerably reduced in size.



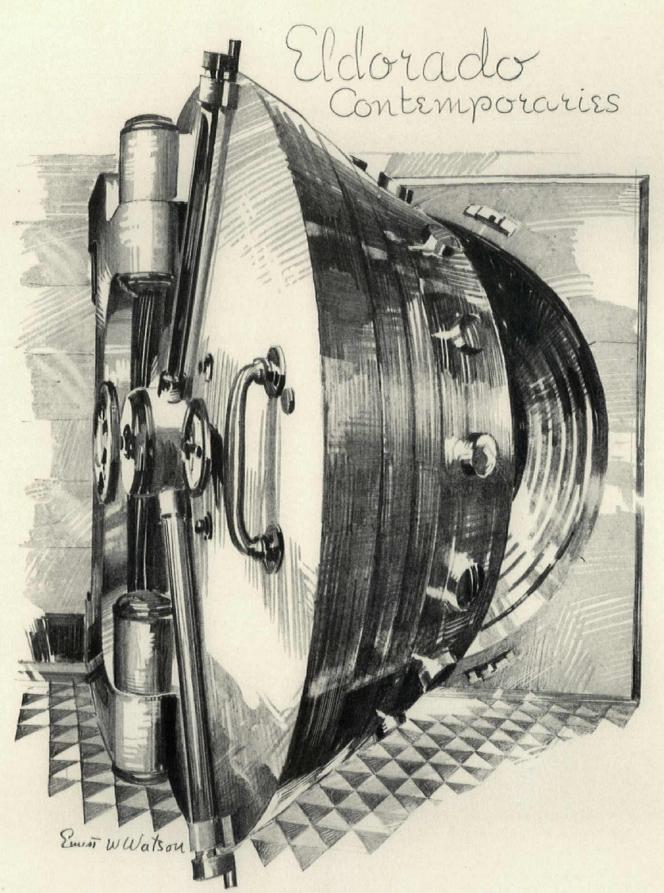
I'LL BE ON THE LOOKOUT!

Now don't procrastinate! I'll be on the lookout for your competition sketch! Happy contest to you!



THESE WASH SKETCHES MERELY SERVE TO SUGGEST SOME OF THE POSSIBILITIES OF THIS FLEXIBLE MEDIUM 258

M A Y 1 9 3 6



For polished metal surfaces of any kind the pencil should bite into the paper, leaving a tone of smooth, crisp quality. Highlights of untouched white paper, sharp edges, reflections, all call for a direct, vigorous pencil attack. Eldorado Pencils B, 2B, 3B and 4B were used in this drawing on cameo paper. Pencil Sales Department 167-J5, JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J.

# S E R V I C E DEPARTMENTS

- THE MART. In this department we will print, free of charge, notices from readers (dealers excepted) having for sale or desiring to purchase books, drawing instruments, and other property pertaining directly to the profession or business in which most of us are engaged. Such notices will be inserted in one issue only, but there is no limit to the number of different notices pertaining to different things which any subscriber may insert.
- PERSONAL NOTICES. Announcements concerning the opening of new offices for the practice of architecture, changes in architectural firms, changes of address and items of personal interest will be printed free of charge.
- FREE EMPLOYMENT SERVICE. In this department we shall continue to print, free of charge, notices from architects or others requiring designers, draftsmen, specification writers, or superintendents, as well as from those seeking similar positions.
- SPECIAL NOTICE TO ARCHITECTS LOCATED OUTSIDE OF THE UNITED STATES: Should you be interested in any building material or equipment manufactured in America, we will gladly procure and send, without charge, any information you may desire.
- Notices submitted for publication in these Service Departments must reach us before the fifth of each month if they are to be inserted in the next issue. Address all communications to 330 West 42nd Street, New York, N. Y.

### MANUFACTURERS' DATA WANTED

- WILLIAM A. MONAHAN, Architect, 97a Newbury Street, Boston, Mass.
- ARTHUR CLEMENT AALHOLM, Architect, 8 Mine Street, Flemington, N. J.
- CHRISTIAN W. BRANDT, Architect, 401 Madison Theater Building, Detroit, Mich.
- MALCOLM D. HILDRETH, Architect, 205 S. Mammoth Road, Manchester, N. H. (Data on schools and small house construction.)
- ROLLIN L. ROSSER, Architect, Arcanum, Ohio.
- ELMER B. TORRANCE, Architect, 675 Elm Street, Kearny, N. J. (Data for A.I.A. File.)
- HENRY JONDAHL, Architect, 423 Queen Street West, Toronto, Ont., Canada.
- CHARLES E. POWELL, Landscape Architect, 8 Dana Street, Cambridge, Mass.
- JAMES E. HYBNER, Designer, 3209 North Fifth Street, Clarendon, Va. (Data on residential material and equipment.)
- JOHN H. ROLFES, Carpenter and Builder, 222 East 12th Street, Cincinnati, Ohio. (Data on small residences and building construction.)
- KENT BARKER, Student, 270 Roncesvalles Avenue, Toronto 3, Ont., Canada.
- J. F. C. SMITH, Student, 78 Marion Street, Toronto, Ont., Canada.

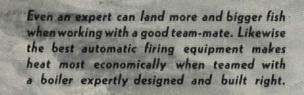
### THE MART

Maurice Germaine, 1600 10th Avenue West, Vancouver, B. C., would like to purchase the following: Ware's Modern Perspective, revised edition, including plates; Longfellow's Applied Perspective.

- Arch Winter, 1155 16th Street, N. W., Washington, D. C., would like to obtain a copy of October, 1935, Architectural Forum.
- Miss Helen Russell, 27 Windsor Street, Worcester, Mass., has the following back issues of Pencil Points for sale: January, 1924; August through December, 1925, in fair condition; January and February, 1926; complete and bound in two volumes each year, in excellent condition, 1927 and 1928; all except April, 1929; complete, unbound, years 1930, 1931, 1932, 1933; all except October and November, 1934; all except October, 1935. Will sell lot or in part, but would prefer not to break complete years.
- Paul V. Stryker, 731 Considine Avenue, Cincinnati, Ohio, would like to obtain the following copies of PENCIL POINTS: July, 1927; July, September, November and December, 1928; January, March, May and July, 1929; January, February, May, 1930.
- W. A. Pittmon, 104 Adelphi Street, Brooklyn, N. Y., would like to obtain a copy of Gwilts' Encyclopedia of Architecture.
- Thomas Stapleton, 607 Fifth Avenue, New York, would like to obtain the following copies of PENCIL POINTS: April, May, June, August, October and December, 1932; April, 1933; October, 1935. Also Vol. 2, Nos. 1, 3, 4 and 6, of the White Pine Series.
- A. Resnikoff, 2186 Cruger Avenue, New York, N. Y., has for sale February, March, and April, 1932, issues of Pencil Points, in excellent condition.
- Harvey P. Baxter, 1108 16th Street N. W., Washington, D. C., would like to obtain the following copies of Pencil Points: April, May, June, August, October, and December, 1932; April, 1933.

### PERSONALS

- FOR RENT: Portion of architect's office at 501 Fifth Avenue, New York, with or without private room, drafting room space, telephone, stenographic and general services, or as may be desired. Studio light in drafting room. Arthur C. Jackson, Telephone VAnderbilt 3-2742.
- WILLIAM A. MONAHAN, Architect, has opened an office for the practice of architecture at 97a Newbury Street, Boston, Mass.
- COGGINS & HEDLANDER, Architects, have moved their offices to the Chateau Lafayette, Boston Post Road, Greenwich, Conn.
- JOHN R. ROCHART, Architect, former associate of the late Cass Gilbert, has established offices at 22 East 40th Street, New York.
- I. M. LEWIS, INC., Architects, have moved to 1704-5 Cadillac Square Building, Cadillac Square, Detroit, Mich.
- ROLLIN L. ROSSER, Architect, has opened an office in Arcanum, Ohio.
- ARTHUR CLEMENT AALHOLM, Architect, has reopened his office at 8 Mine Street, Flemington, N. J., for the practice of architecture.
- CHRISTIAN W. BRANDT, Architect, has opened an office at 401 Madison Theater Building, Detroit, Michigan.



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HEAVIER CASTINGS, add extra years of life.

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# PUBLICATIONS ON MATERIALS AND EQUIPMENT

of Interest to Architects, Draftsmen and Specification Writers

Publications mentioned here will be sent free unless otherwise noted, upon request, to readers of PENCIL POINTS by the firm issuing them. When writing for these items please mention PENCIL POINTS.

G-E RADIAL WIRING SYSTEM.—A.I.A. File No. 31-C-61. Publication No. 51-611. A new reference manual for architects and engineers containing complete information on the basic design of the G-E radial wiring system, as well as design procedure and specifications. In addition, it includes a section illustrating the materials and fixtures used, wiring diagrams and a convenient check list. 32 pp. 8½ x 11. General Electric Co., Appliance and Merchandise Dept., Bridgeport, Conn.

1936 NEW AMERICAN DEMONSTRATION HOME-BUILDING PROGRAM.—Publication NAH-102. Newly published prospectus outlines the scope of the new program, discusses the basic requirements of the "New American" concept of living, and explains the extent to which General Electric will cooperate with those concerned in the building trades and home-furnishings field. 12 pp. General Electric

Co., Schenectady, N. Y.

NEW BETHLEHEM-DOE OIL BURNERS.—Bulletin No. CF-2, just issued, describes in detail a line of conversion oil burners, also a new compact, flange type model ready to be bolted directly into the modern, completely enclosed oil burning furnaces. 16 pp. Bethlehem Foundry & Machine Co., Bethlehem, Pa.

BRUNS METAL-LITE AWNINGS.—A.I.A. File No. 28-f. Folder describing and illustrating a new permanent, all-metal awning suitable for apartments, office buildings, hotels, homes, public buildings, etc. Detail drawings. 4 pp. 8½ x 11. Bruns Metal-Lite Awnings, Inc., 52 Ralph Ave., Brooklyn, N. Y.

ROCKWALL GYPSUM AND RELATED BUILDING PRODUCTS.—New catalog covering a complete line of gypsum and related building products, including gypsum lath, metal lath, plasters, limes, etc. 12 pp. 8½ x 11. Atlantic Gypsum Products Co., 205 E. 42nd St., New York, N. Y.

LUMAR LUMINOUS MARBLE.—Folder giving a detailed description of Lumar, a scientifically selected and specially processed marble serviceable for innumerable uses in architecture and decoration. 4 pp. 8 ½

x 11. Vermont Marble Co., Proctor, Vt.

THE LUCKE LEAK PROOF TUB HANGER.—A.I.A. File No. 29-m. Catalog D describing and illustrating a type of tub hanger, designed to act as a water seal between walls and edges of built-in tubs or shower receptors, also between tile floor and tub. Specifications, dimension data. 16 pp. 8½ x 11. William B. Lucke, Wilmette, Ill.

CYCLONE FENCE.—A.I.A. File No. 14-k. New spiral-bound catalog, No. 107, covering chain-link fence, tennis court enclosures and back stops, steel picket fence, gates, partitions, window guards, etc. Complete descriptive and specification data, details. 48 pp. 8½ x 11. Cyclone Fence Co., Waukegan, Ill.

VENTO STEEL CASEMENTS.—Catalog CW-36 covers a complete line of casements for residences, apartments, etc., including Vento Insulpanes, designed for air-conditioned houses or for use as storm panels in severe climates. Specifications, standard types and sizes, detail drawings, etc. Included is data on utility and basement windows and coal chutes. 36 pp. 8½ x 11. Vento Steel Sash Co., Muskegon, Mich.

LEWIS AIR CONDITIONING.—New catalog. Form 20A describes the H-1 and M-3 series air conditioning units as well as the H-2 and G C series recently introduced. Capacity tables, mechanical specifications, etc. 8 pp. 8½ x 11. Lewis Air Conditioners, Inc., 1600 Northeast Broadway, Minneapolis, Minn.

JOHNSON ZONE CONTROL.—A.I.A. File No. 30f-2. Brochure, devoted to the subject of Johnson zone control systems, features the use of the Johnson Duo-Stat for primary automatic control of heating mains and branches. 24 pp. 8½ x 11. Johnson Service Co., Milwaukee, Wis.

SOLUS OIL AND GASOLINE SEPARATOR.—Catalog No. 10 describing a type of separator which prevents oil and gasoline from entering drains and sewers in garages, filling stations, airports, paint factories, engine rooms, etc. Installation and dimension details. 14 pp. The Central Foundry Co., 420 Lexington Ave., New York, N. Y.

GUTHFAN CONDITIONAIRE.—Catalog No. 7 covers a complete line of Guthfan conditionaire equipment including several new designs suitable for use in homes, offices and stores. 16 pp. 8½ x 11. The

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

WESTERN ELECTRIC PROGRAM SOUND SYSTEM.—Catalog giving a detailed description of a new program sound system for use in sizeable buildings such as schools, hotels, department stores and hospitals. 12 pp. 8½ x 11. Western Electric Co., 195 Broadway, New York, N. Y.

WIN-DOR CASEMENT WINDOW HARDWARE.

—A.I.A. File No. 27-c-2. Catalog No. 22 covering a line of casement operators, transom operators, casement adjusters, stays, hinges and locking handles, operator assemblies for steel sash and screen hardware. Installation details. 14 pp. 8½ x 11. The Casement Hardware Co., 406 North Wood St., Chicago, Ill.

PENMETAL PRODUCTS.—Catalog giving detailed information on a line of metal lath and accessories. 12 pp. 8½ x 11. Penn Metal Co., 205 E. 42nd Street,

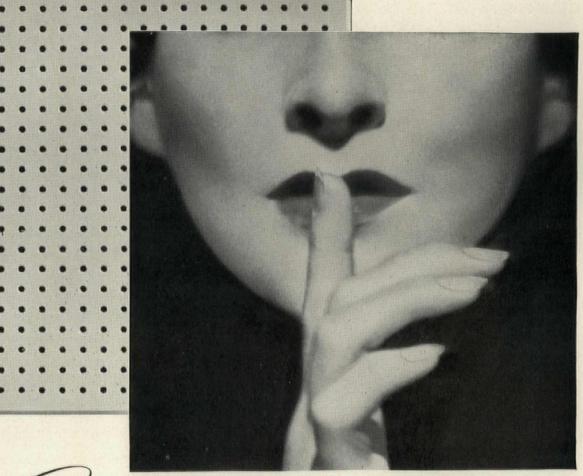
New York, N. Y.

ATTRACTIVE FIREPLACES.—A.I.A. File No. 14-e-2. Handsome brochure on the subject of attractive fireplaces and how to build them. Included are descriptive data covering fireplace specialties, detail drawings, specifications and a variety of fireplace designs. 16 pp. 8½ x 11. The H. W. Covert Co., 229 E. 37th St., New York, N. Y.

NEW OZALID TYPE 600 DRY-DEVELOPING MACHINE.—Descriptive folder announcing the introduction of the type 600 developing machine, mounted on a Wickes new type blue printing machine, making a combined printing and developing unit for the production of positive-type white prints. 4 pp. 8½ x 11. Ozalid Corporation, 354 Fourth Ave.,

New York, N. Y.

THIS THING CALLED AUTOMATIC HEATING AND AIR CONDITIONING.—Attractive new brochure designed to show the important part which automatic controls play in the operation of heating and air conditioning systems, and the absolute necessity for planning this control as an integral and important part of this operation. 48 pp. Minneapolis-Honeywell Regulator Co., Minneapolis, Minn.



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FOR quieting noise, controlling sound, clarifying speech, and in every phase of sound conditioning, Acousti-Celotex has demonstrated its outstanding capabilities for over 10 years.

In hospitals, schools, business offices, and workshops, Acousti-Celotex protects against din and distracting turmoil from without and quiets noise within. The problem of retarding the spread of noise from building machinery, elevators, kitchens, has also been most satisfactorily solved by Acousti-Celotex. In radio studios, auditoriums, churches, and

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In all applications for sound conditioning, Acousti-Celotex is easily-economically installed. It may be applied to any type of ceiling surface either in new or existing buildings. It is permanent and may be painted or decorated repeatedly without destroying its acoustical properties. Architects are invited to consult the nearest Acousti-Celotex distributor who will cooperate in helping solve any sound conditioning problem. Or write

THE CELOTEX CORPORATION, 919 N. Michigan Ave., Chicago, Ill.



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estimating. Drives car. References. Box No. 507. POSITION WANTED: Architect, with 25 years of good all-round architectural and construction experience, wishes position as draftsman or construction superintendent. Can manage drafting room and write specifications. References from former employers can be furnished. Box No. 508.

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POSITION WANTED: Architect capable of handling work of any magnitude wants employment or partnership with established architect. Box No. 510.

POSITION WANTED: Young man, 21 years of age, completed architectural drafting course at Drake's School, also High School graduate. Jerome Licker, 305 E. Mt. Eden Ave., New York, N. Y.

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One year drafting at High School. Now in second
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New York in evening. Box No. 511.

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(Continued on page 41, Advertising Section)

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NOW ON DEMONSTRATION

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Iron Fireman prices are the lowest in history. A Coal Flow model may be purchased for as little as \$10.72 a month, with a small down payment; standard hopper models for as little as \$8.97 a month.

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# A Letter from the Federation of A.E.C.&T.

"Pencil Points has printed articles expressing different shades of opinions regarding economic organizations of architectural employees. There are honest differences of opinion and it is well to see this question discussed. It is to be regretted, however, that Pencil Points has printed the letter of Mr. Oliver Whitwell Wilson. This letter makes criminal charges against the Federation of Architects, Engineers, Chemists and Technicians, but does not substantiate these charges with a single fact.

"To speak of the Federation as an organization 'deliberately flouting law and order' when one has no proof is

libel and slander.

"Mr. Wilson, in a confusing manner, has mingled two issues; one, the use of the word 'architect,' and the other, what purports to be a report of the February 15th meeting in New York.

"As to the first, our organization includes architectural employees. We have several hundred Registered Architects and thousands of others doing architectural work in various categories of the profession. We did not try to pass off our organization as one of Registered Architects. We do not use this term, but rather use the general term of Architect to include the Registered Architect as well as the other architectural employees. In using the word Architect in the name of our organization, we do not know of any law that we are violating, the penalty of which is a heavy fine or prison sentence, as Mr. Wilson insinuates. The truth of the matter is there is no such

"As far as carrying the obligations and responsibilities that are associated with the best traditions of the profession, we yield to no one. Our program would establish the profession on a very just and honorable basis and would wipe out the severe exploitation and suffering that architectural employees have had to face because of the whims of chiselling architect employers. Our program calls for the payment of standards of pay that will give to the architectural employee a fairer standard of living.

"The February 15th meeting was one step in our program for bettering the professional standards of those architects who are on WPA, as our call to the meeting indicates:-

For the continuation and expansion of WPA to provide employment for the unemployed architects and draftsmen.

For the payment of professional wages for architects and engineers. No dismissals.

No downward re-ratings.

Sick-leave and vacations with pay for all.

"Whatever the opinions of Mr. Wilson as to the blame for the difficulties which followed a very peaceful and orderly meeting, Mr. William J. Schiefflin, outstanding citizen of New York and Chairman of the Citizens Jury which thoroughly investigated the happenings on February 15th, found:

'The jury finds that the brutality of police in the Square was without justification. The police were unwarranted in refusing to allow the leaders of the demonstration to tell the demonstrators to proceed on the sidewalks, blocking off all points of egress from the Square. The police, in fact, provoked trouble that could easily have been prevented if they had cooperated with the responsible leaders of the demonstration to maintain peace and order.'

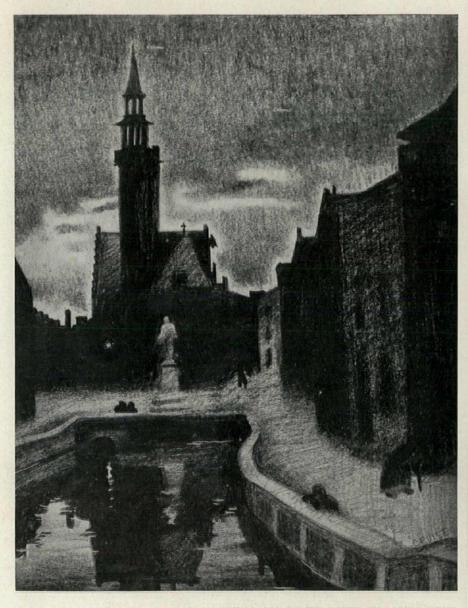
"Our civil rights and democratic liberties mean too much to us to allow Mr. Oliver Whitwell Wilson to misrepresent the happenings of February 15th and to dishonestly accuse the Federation of violating the law.

"The members of our organization intend to uphold these rights and liberties in bettering their economic conditions and improving the status of

the profession."

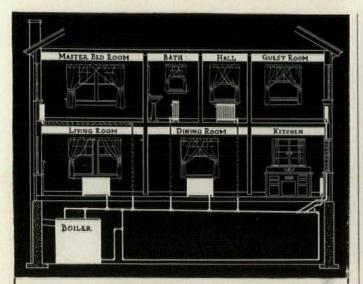
Signed: MARCEL SCHERER
General Organizer
New York Chapter, Federation of
Architects, Engineers, Chemists
and Technicians

EDITOR'S NOTE: We agree that Mr. Wilson's zeal for the maintenance by all architects of their professional dignity led him into faulty logic and that his criminal charges would be impossible to substantiate. His point that real or apparent public misbehavior by architects or architectural groups reflects discredit on the whole profession is, however, correct.



FROM A LITHOGRAPHIC CRAYON DRAWING ON CAMEO PAPER BY ALVYK BOYD CRUISE OF NEW ORLEANS, MADE DURING TRAVELS AS HOLDER OF THE CRESSON TRAVELING SCHOLARSHIP OF THE PENNSYLVANIA ACADEMY OF FINE ARTS. THE SUBJECT IS THE QUAI DU MIROIR, BRUGES, BELGIUM, IN THE TWILIGHT





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of Air Conditioning

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### Paul V. L. Stewart, of Cleveland, Writes

Sir:

"Will you please convey, through the columns of PENCIL POINTS, my thanks to Oliver Whitwell Wilson for a hearty and prolonged chuckle over his indignation, expressed in his letter in the April issue, at the temerity of architects and others who dared insist on recognition of their constitutional rights, both as regards holding a parade and calling themselves architects?

"Singling out one organization, the Federation of Architects, Engineers, Chemists and Technicians, as the object of his anathema, Mr. Wilson would rush in where angels fear to tread and 'impose a permanent injunction against the further use of the word "Architect" in the title of the organization. Well, what about other organizations using the word 'Architect,' Mr. Wilson? The American Institute of Architects, for instance? Or the Technical Engineers, Architects, and Draftsmen's Unions; etc.; etc.?

"I believe the time is about ripe for a showdown on this subject of government by injunction as well as on the subject of bureaucratic racketeering fostered by means of licensing and registration laws, particularly with regard to the architectural profession. An 'architect,' according to Webster, is a 'person skilled in the ART of building; a professional student of architecture; or one who MAKES it his occupation to form plans and designs of, and to draw up specifications for, buildings, . . . etc.

"Again, 'architecture,' according to Webster, is 'the ART or science of building.' Further, we find that architecture is one of the 'ARTS of design.'

"Now these definitions were not made for the present occasion. And there is nothing in them which even suggests that an engraved certificate issued to a person by a monopolyseeking board of racketeers is a sine qua non of the architectural profession. Note carefully: an architect is, among other things, 'a professional STUDENT of architecture,' or is one 'who MAKES it (architecture) his OCCUPATION.' In this connection let me cite Section 1 of the Fourteenth Amendment to the United States Constitution, which provides, in part: 'No State shall make or enforce any law which shall abridge the privileges or immunities of citizens of the United States.' On this point the United States Supreme Court has already handed down a decision clearly stating that 'Under that (the Fourteenth) Amendment, nothing is more clearly settled than that it is beyond the power of a State, "under the guise of protecting the public, arbitrarily

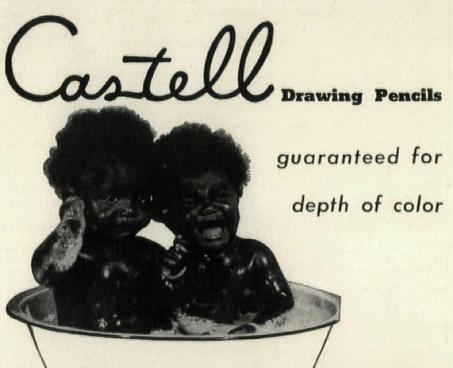
(to) interfere with private business or prohibit lawful OCCUPATIONS or impose unreasonable and unnecessary restrictions upon them."

"In the light of the foregoing, perhaps it would be a splendid thing for Mr. Wilson's legal advisers to file an injunction suit against individuals and organizations who illegally (?) use the word 'architect' or practice 'architecture.' A good thing for the unbaptized, that is. At any rate, I intend to call myself an architect, and to practice architecture whenever I have the chance to do so, regardless of license and registration laws, as long as

the Constitution is the basic law of

America, and there are many others who must take the same stand to preserve their right to Life, Liberty, and the Pursuit of Happiness.

"As to the parade in which the F.A.E.C.&T. participated, Mr. Wilson, have you ever read the First Amendment to the Constitution? This makes provision for a guarantee of religious freedom, freedom of speech and of the press, and freedom of assemblage and petition. READ it! Far from censuring the F.A.E.C.&T. for taking part in a parade in defiance of an autocratic Commissioner, you should design a monument to them for insisting on recognition of their rights."



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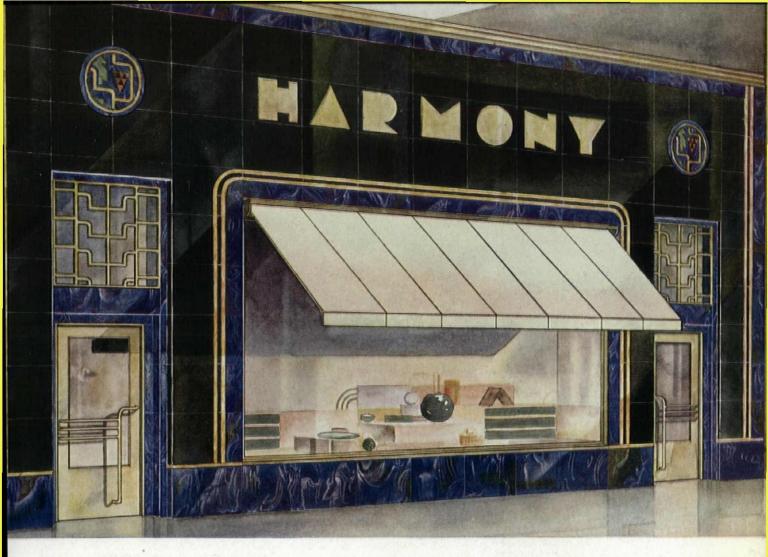
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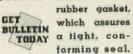
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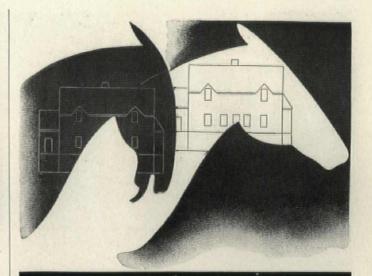
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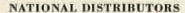
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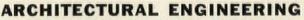
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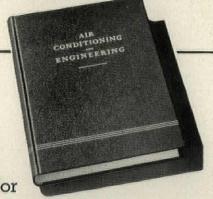
DRAFTSMAN WANTED: Good man who would like to work in the south. One who is good on small residence work, sketches, working drawings and details. Send full information and samples of work in first letter. George Watts Carr, Durham, N. C.

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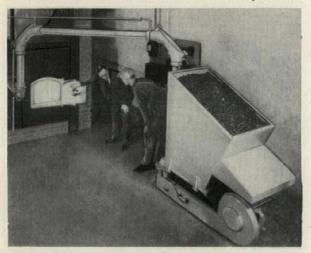
# Changes in Personnel, etc.

#### IRON FIREMAN PNEUMATIC SPREADER

Pneumatic Spreader is the name of a revolutionary power-plant stoker, combining the advantages of both the conventional overfeed stoker and the powdered coal burner, which has just been perfected by the Iron Fireman Mfg. Co., Portland, Ore.

Not only finer particles of coal, but also lumps up to 1½ in. in size are floated into the furnace on a stream of air. The finer particles are burned in suspension. The larger pieces are burned in uniform, shallow layers on the grates in such a manner that the temperature at the grate line is below the fusion point of ash and even high-sulphur coal does not clinker.

The new stoker eliminates the reconstruction of the entire boiler front required with installation of the conventional overfeed stoker. With Pneumatic Spreader, it



is only necessary to cut a hole in the boiler front large enough to admit the spreader nozzle. There is no overhead mechanism to interfere with cleaning the firebox, and fire doors remain full height.

Pneumatic Spreader is particularly adapted to the firing of power and process boilers for industrial purposes, and burns the coal over a maximum grate area.

The stoker can be located to suit conditions, usually from eight to fifteen feet from the boiler front, and even in a separate room. Pneumatic Spreader is available in five sizes with capacities ranging from 75 to 500 boiler hp.

### JOHNS-MANVILLE EXPANDS ITS LINE OF ACOUSTICAL PRODUCTS

Johns-Manville Corp., New York, announces it has arranged to expand its line of acoustical products by becoming sole distributors of Acoustex and Silentile noncombustible, noise reducing building materials manufactured by the Atlantic Gypsum Co., Boston. These products are in addition to those developed in the J-M laboratories in the past 25 years.

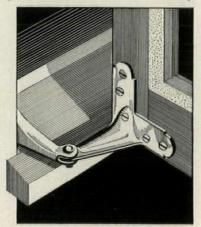
Marketing of the materials, made from wood fibre and asbestos, will begin immediately. Acoustex and Silentile, subjects of experiment in Eastern laboratories for the past several months, will be used for noise reduction and acoustical correction of office buildings, hospitals, public buildings, theatres, libraries, educational institutions and other buildings.

### NEW WIN-DOR EXTENSION HINGES FOR CASEMENTS

Announcement of a new casement window hinge for wood sash is announced by the Casement Hardware Co., Chicago, Ill. It is designed to extend the sash 4" away

from the frame when the casement is opened. The object of this extension is to permit room for cleaning the outside surface of the glass from the inside of the room as easily as the inside is cleaned.

Another advantage is the fact that when the window is opened in the summer time and the greatest amount of



ventilation is desired, the sash acts as a baffle for breezes, deflecting this air into the room on both sides of the window.

The hinge is made very strongly of steel and is designed to reinforce the corners of the sash. Twelve square feet of metal bearing surface give this added strength. It is the loose pin type with bronze bushings.

#### NEW ARMSTRONG INSULATING BOARD

Development of a new smooth-finish insulating board is announced by the Armstrong Cork Products Co., Lancaster, Pa. The hairy or coarse textured surface which heretofore has been characteristic of all insulating board has been entirely eliminated in the new Armstrong board, which will be known as Temlok De Luxe. The new smooth finish is obtained by an exclusive surface treatment and the full insulating value of the board is retained. The pleasing texture of the new board and the range of colors open up a broad field for its use as a decorative interior treatment. Temlok De Luxe is available in standard size boards, 4' x 8' to 12'. In addition to the natural golden buff color of Temlok, the new board also is furnished in white, cream, ash, and walnut colors.



The new light colors offer high light reflection value. The new board also possesses valuable acoustical properties. Thus it is especially suitable for office buildings, schools, stores, restaurants, taprooms, and many other types of buildings as well as for residential work.

Original and pleasing decorative effects will be easy to achieve with the new Temlok De Luxe. It provides an attractive allover finish and is ideal for use in connection with wood trim or wainscoting.

### MONARCH DEVELOPS NEW METAL ALLOY FOR WEATHERSTRIPS

An entirely new metal alloy developed especially for use in the manufacture of weatherstrips has recently been announced by the Monarch Metal Weatherstrip Corporation, St. Louis, Mo. The new alloy which is marketed under the trade-mark of MetaLane is the result of more than twenty years of exhaustive research and experimentation on the part of the Monarch company to discover a superior metal for weatherstrip manufacture.

MetaLane alloy is a special combination of aluminum, used as a base to give it lightness, and other metals, added to give it hardness, resiliency and durability in accordance with an entirely new Monarch formula.

Prior to being formed into weatherstrips, the new metal is subjected to a special electro-chemical treatment, which gives it a very hard wearing surface, with a dull silver finish and without, in any way, affecting the resiliency or springiness of the metal.

In the next step the metal is treated with a special lubricant so that when in use two shapes of weatherstrip are permitted to rub, one on the other, without galling or scoring. Ease of operation naturally follows when this specially lubricated metal is used.

It is pointed out that weatherstrips made of Meta-Lane alloy will not tarnish or discolor regardless of weather conditions, thus the danger of drip-staining adjacent surfaces is removed. Furthermore, it is stated that this new metal resists corrosion which is an important factor from the standpoint of economy.

#### NEW BRONZE ROLLING GRILLE

The Cornell Iron Works, Inc., Long Island City, N. Y., announces the installation of the first bronze rolling grille ever made in this country at Luchow's Restaurant, New York, as shown in the accompanying illustration.

The grille is composed of 5/16 in. round horizontal polished bronze crimped rods connected by vertical



links of polished cast bronze. The entire grille is finished in statuary bronze color to match the bronze revolving door behind it. The grille is retained in bronze channel shaped vertical side guides at each jamb and locks in securely against any possible pulling out or forcing. The weight of the grille is counterbalanced by tempered springs contained in a 4 in. horizontal pipe shaft located above the opening behind the fascia. It works with ease and the convenience of a window shade. The grille rolls up around the pipe shaft and is out of sight when

opened.

An eight-page catalog is available upon request. Dimensions, specifications, descriptions and illustrations are included.

### NEW BARRETT PITCH FOR STEEP ROOFS

Having demonstrated, throughout a long period of years, its exceptional qualities for built-up flat roof construction, coal-tar pitch now enters the lists as a steep roof material. The Barrett Co., New York, has just announced its new Steel Roof Pitch which makes possible the use of fire-safe and highly protective gravel or slag surfaces which heretofore have been confined to use on flat, or nearly flat, surfaces.

The new pitch, it is pointed out, will withstand the coldest of winter weather without cracking, checking or loss of bond, and it is particularly resistant to slide at high temperatures, even beyond those limits to which

roofs are normally subject.

Roofs constructed of steep roof pitch, felt and gravel (or slag), applied according to specifications furnished by The Barrett Co., are bonded for 20 years by the United States Fidelity and Guaranty Co. Steep roof pitch is being promoted for use on built-up roofs with inclines of from two inches to six inches to the foot.

### GENERAL ELECTRIC ELECTS I. W. LEWIS ASSISTANT TO PRESIDENT

J. W. Lewis, who since 1923 has been assistant to Gerard Swope, president, has been elected treasurer of the General Electric Company. He succeeds R. S. Murray, who is retiring on May 1 because of ill health.

In addition to the election of Mr. Lewis as treasurer, the board of directors at the same meeting re-elected Owen D. Young, chairman of the board, and Gerard Swope, president, positions to which they both were elected in 1922. Other executive officers were all reelected.

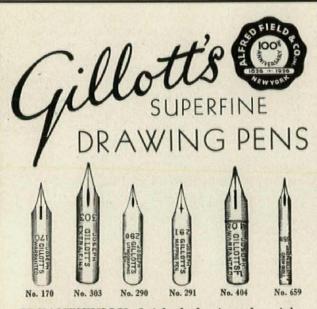
The Hoffman Specialty Co., Waterbury, Conn., has appointed Frank J. Weber as factory representative in the Buffalo territory. Mr. Weber formerly represented the Hoffman Specialty Co. in Detroit.

Crane Co., Chicago, Ill., announces the appointment of George L. Erwin, Jr., as assistant to P. R. Mork, vice-president in charge of sales. In his newly created position, Mr. Erwin will develop sales and market research activities.

Jas. P. Marsh Corporation, Chicago, Ill., has appointed the Chas. M. Bailey Co., Inc., as its representative for the Southern California territory.

Curtis Lighting, Inc., Chicago, announces the appoint-ment of Harold R. Eldredge, formerly secretary-treas-urer of Curtis Lighting of New York, Inc., as New York sales manager of Curtis Lighting, Inc., to be in charge of all Curtis sales activities in the Metropolitan New York district.

W. V. Peters has been appointed manager of the steel window and door department of the Truscon Steel Co., Youngstown, Ohio. Entering the employ of the company 17 years ago, Mr. Peters' first duties were as sash salesman in the Cleveland office. Following this, he was promoted to the post of manager of the steel sash and door department of the Detroit district sales office. He was then, successively, special representative in the East, with headquarters in Philadelphia, and district sales manager of the Cleveland office, where he remained for over four years, or until his recent promotion to his present position.



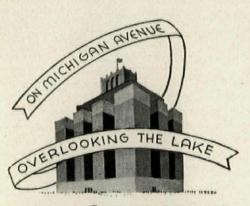
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Milcor Expansion Corner Bead and Casing, because they perform their particular functions as well as does Metal Lath, are outstanding products.

Write for information or refer to the Milcor Manual in "Sweet's."





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Expanded Metal Building Products are Available in

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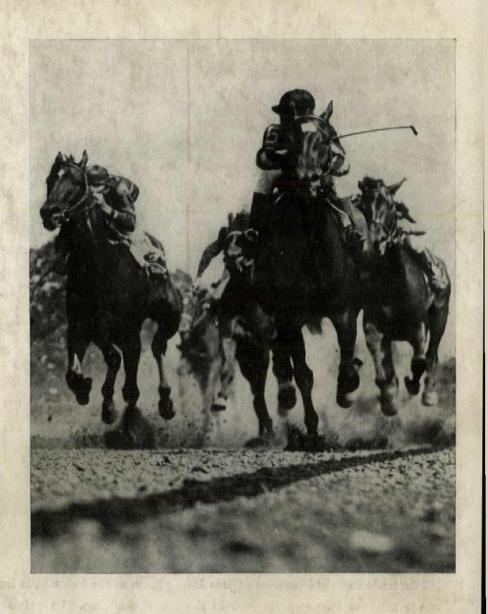
The Pittsburgh Glass Institute, with an advisory board composed of experts in the various

THE formation of the Pittsburgh Glass In- phases of the industry, is intended to remedy this condition. Its primary purpose is to assemble and coordinate all available data on the many uses and applications of glass that have been developed through modern manufacture . . . to establish authoritative standards for the use of glass.

> If you have any problems concerned with the functional or decorative use of glass, we invite you to apply to the Pittsburgh Glass Institute for assistance in their solution. We believe the Institute can render outstanding service to the architects and building trade of America.

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30 ROCKEFELLER PLAZA



### 'INCOR' PAID 3 TO 1 AT SUFFOLK DOWNS

Forty thousand people saw the first race at Suffolk Downs, East Boston, last July 10. Ten weeks before, the track site had been a barren waste, a public dump. Once again the 'impossible' was accomplished. To illustrate: Work on 'the world's largest race-track grandstand'—8,000 cu. yds. of concrete—started May 24, was completed June 21. With ordinary cement, forms would have remained in place six days, requiring purchase of lumber for the entire job. By using 'Incor' 24-Hour Cement, forms were stripped in two days, re-used again and again. That meant 62½% fewer forms. Result, a \$10,000 saving—more than three times 'Incor's added cost.

'Incor's is a better Portland cement—it attains service strength in one-fifth the usual time. But it goes much deeper than mere time-saving—for 'Incor' saves money, by eliminating dead-time waiting for ordinary concrete to harden. This basic principle applies wherever concrete is used—suggesting that contractors be encouraged to estimate under form-removal specifications which take full advantage of 'Incor's earlier service strength. Made and sold by producers of Lone Star Cement, subsidiaries of International Cement Corporation, New York; also sold by other cement manufacturers. \*Reg. U. S. Pat. Off.

'INCOR' 24-HOUR CEMENT