SELECTED ARCHITECTURAL DETAILS

for...
architects, designers
draftsmen & engineers

LEWIS J. COWAN
ARCHITECT-ENGINEER
1505 PINE ST.
PHILA. 2, PA.
foreword:

The following pages of architectural detail sheets have been selected from past issues of Progressive Architecture. It is our hope that this book will be of real value to you in your work . . . and that you will continue to find in P/A a full measure of inspiration and practical assistance contributing to your success in your profession.

Sincerely yours,

Tom Creighton

Editor
## Selected Architectural Details

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| BOOK INDEX                       | 77-79|
A. E. HOUCK RESIDENCE, Coral Gables, Florida

IGOR B. POLEVITZKY, ARCHITECT
BOTTOM OF 2x6 OUTRIGGERS
BOTTOM OF 2x6 ROOF PANTILES
CYPRESS BOARD
SPRING SASH BALANCES
CASH SASH LENGTHENED IN ADDING EXTRA STRIP
11/8 TRIM
GLASS
UP SLIDING WINDOW
11/8 FRAME
15/8 11/8
SCREEN DOOR
11/8 FLOOR
2 x 10 MULLION
2 x 2 x 10 HILL
ALPHAT TILE ON 1/4" PLYWOOD
CAULKING
STONE
WATERPROOF
GRADE
1/2 SCALE STONE
RADIATOR ENCLOSURE
WATERPROOF
2 1/2 SCALE STONE
RADIATOR ENCLOSURE
WATERPROOF
PLAN AT A
1/2 SCALE
HINGED SASH
RADIATOR ENCLOSURE UNDER
HINGED HOT HOUSE DOOR
CONTINUOUS 2' x 10"
4' x 11/8 TRIM
SECTION AT B
1 1/2 SCALE
2 x 10 MULLION
2 x 2 x 10 HILL
VAN WESPE RESIDENCE, Brewster, New York
CALEB HORNBOSTEL, ARCHITECT
1/4" PLYWOOD

7/8" WOOD LOUVERS

1 1/8" x 2 1/4"
CONTROL ARM

CEILING AT LIVING ROOM SIDE

LOUVERS CLOSER

Pivot point

1 1/4" TRIM

1 1/8" STUCCO

2" x 4" STUDS

DORT RESIDENCE, Washington, D.C.

JEAN P. TROUCHAUD, DESIGNER
GOODYEAR RESIDENCE, Old Westbury, New York
EDWARD D. STONE ARCHITECT
RESIDENCE FOR SCHOOLTEACHER
Pittsburgh, Pennsylvania

MITCHELL & RITCHIE
Architects
PLASTER— 2.5 x 6.5
LAG BOARD
IMPLIDING GLASS DOORS: REPEATED ON OPPOSITE SIDE
3/8" HOLES, 2" O.C.
PLYWOOD SHELVES
STOCK METAL TRACK
5/4" PLYWOOD

Section
3" SCALE

CEILING

TABLE

Elevation
3/8" SCALE

PLAN
3" SCALE

RUBBER TOPS
1 1/8" PARTITION SCREWED TO TOP AND BOTTOM

1/4" x 1 1/4" MAPLE
3/4" PLYWOOD
3/4" MAPLE

HOLE FOR SHELF SUPPORT

REFERENCES: suspended 2-way kitchen cabinet

ORT RESIDENCE, Washington, D. C.

J. P. TROUGHAUD, DESIGNER
BUILT-IN FURNITURE RESIDENCE near Chicago, Ill.

15 McSTAY JACKSON CO., Designers
Section through Hood
HALF FULL SIZE

Section at A
HALF FULL SIZE

All welding continuous

MENEFEE RESIDENCE
Yamhill, Oregon

PIETRO BELLOUSCHI
Architect
APFEL RESIDENCE, Harrison, N. Y.
CALEB HORBOSTEL, ARCHITECT

GRANT RESIDENCE, East River, Conn.
EDWARD D. STONE, ARCHITECT

NESBITT RESIDENCE, Brentwood, Calif.
RICHARD J. NEUTRA, ARCHITECT
Detail at C

1 1/2" SCALE

WELDED

16 GA. METAL FACEING
SECOND FLOOR

CONTINUOUS 5" x 2" x 6/32"

16 GA. FT COVER

Photography Inc.

SAARINEN, SWANSON & SAARINEN, ARCHITECTS
BROOKS-BORG, ASSOCIATE ARCHITECTS
LAWRENCE ELEMENTARY SCHOOL
San Mateo, California
DORMITORY: entrance canopy

Plan

Elevation 1/4" SCALE

Section at A 1/4" SCALE

ANTIOCH COLLEGE
Yellow Springs, Ohio

SAARINEN, SAARINEN & ASSOCIATES
Architects
DREXEL SCHOOL, Cicero, Illinois
BEECHER HIGH SCHOOL, Flint, Michigan

LYNDON & SMITH, ARCHITECTS
Stadium Section
1/16" scale

NOTE
Floodlight Standards were poured in 15'-0" sections. A 30'-0" beam strongback bolted to the first section and projecting 15'-0" beyond held forming and reinforcement until the second section was poured and stripped. This process repeated throughout full height.
G. H. BAKER SHOE STORE
Oakland, California

31
Plan of Window Unit
9/16" Scale

Mullion Plans 3" Scale

FLOOR LINE

Window Section 3" Scale

NELSON EQUIPMENT COMPANY
Portland, Oregon

VAN EVERA BAILEY
Architect
AUTOMOBILE SHOWROOM: sloping window

"L" MOTORS
New York, New York

MORRIS LAPI DUS
Architect
The tenant of this narrow, deep store (14 ft wide, 14 ft high) first went to a fixture contractor, intending to eliminate “unnecessary” fees. For his budget, he was assured he could get nothing better than is shown in the small sketch at right. Dissatisfied, he approached Miss Frommer, who produced for him the shop pictured above for the same total budget, which was approximately $7,000. Economies achieved by such means as substituting black ceramic tile (laid up in squares 2½ x 2½ ft with gray cement joints between squares) for terrazzo and dividing strips, made possible such essentials as the hung ceiling, painted midnight blue to help concentrate attention on the merchandise. No exterior sign space was available; name appears in aluminum letters at rear of 10-ft deep vestibule.
THE MAY COMPANY APPLIANCE BUILDING
Los Angeles, California

ALBERT C. MARTIN AND ASSOCIATES
Architects and Engineers

WOOD SHEATHING AND PLASTER ON METAL LATH
5'-W 5'T AROUND PERIMETER
ROOF VALLEY OVER SPACE PROVIDED FOR DIAGONAL STEEL BRACING
8'-4" CEILING LIGHT PANELS
1" C OUTRIGGERS AT HEAD AND SILL
ROOF DRAIN

Plan 1/8" SCALE

Plan at Returns 1/2" SCALE

ALBERT D. MARTIN AND ASSOCIATES
Architects and Engineers

THE MAY COMPANY APPLIANCE BUILDING
Los Angeles, California

39
Section HALF FULL SIZE

CONCRETE WALL

ALUMINUM LIGHTING FIXTURES

WOOD GATE

LINE OF SIDEWALK

EDRIS MORRISON PHOTOGRAPHIC STUDIO
Portland, Oregon

PIETRO BELLUSCHI
Architect
DAVISON-PAXON STORE, Atlanta, Georgia

HAROLD M. HEATLEY AND KETCHUM, GINA & SHARP, ASSOCIATED ARCHITECTS, JOSEPH AMISANO, DESIGN PROJECT CHIEF
DEPARTMENT STORE: record listening counter and storage unit

DAVINSON-PAXON STORE,
Atlanta, Georgia

HAROLD M. HEATLEY AND KETCHUM, GINA & SHARP, ASSOCIATED ARCHITECTS,
JOSEPH AMISANO, DESIGN PROJECT CHIEF

Plan 1/4" scale

Section at A 1/2" scale
Ceiling is dark blue, walls light gray, lighting (mostly fluorescent) is built-in. Exposed wood is oak with rubbed gray finish except wall fixture shown above, which is yellow, repeating the narrow yellow stripe set in the black linoleum floor. All fixtures, including those in the lobby, were proportioned to display a particular type of merchandise (jewelry, handbags, luggage) to fullest advantage.
Half Elevation 1/2 SCALE

Plan thru Counter

Plan above Counter

Section 1 3" SCALE

Section 2 3" SCALE

SPECIALTY SHOP
NEW ROCHELLE, N. Y.

MARIE FROMMER
Architect
Section A 1/2" Scale

1/2" Plywood

Removable St. Steel Basket

Plan at Paper Slot

1/4" PL. Glass
St. Steel Tubing 5/16" O.D.

B3/16" Glass Top

Wood Blocking

Weld

1/4" Cushion Continuous 3" 2" 1/4" L

Waste Paper Basket

Section B 1/2" Scale

Central National Bank, Cleveland, Ohio

49 Conrad, Hays, Simpson & Ruth, Architects
Plan of Units 1/4" scale

KLING STUDIOS, Chicago, Illinois

KLING STUDIOS
Centrally national bank, Cleveland, Ohio

Conrad, Hays, Simpson & Ruth, Architects

Central National Bank, Cleveland, Ohio

Conrad, Hays, Simpson & Ruth, Architects
**Section thru Screen**

3/4" SCALE

- 2" Furring C1, 4'-0" Centers
- Fabric Covered Plaster
- 1/4" Corrugated Plaster on Wire Lath
- 3/4" Vertical Furring C1, 16" O.C.
- Screen Lacing
- Continuous Lighting
- Weld
- 2' x 2' Clip L Welded, Bolted to Wall
- 2' x 2' Clip L Welded, Bolted to Wall
- Weld
- Screen Lacing
- Wall Curves on 9'-6" Radius

**Plan at Ism**

1" SCALE

- MAJORITY
- FLOORING
- 2' x 6' Flooring
- 2' x 2' x 2' / 1/4" Plywood
- 2' x 2' / 2' L Clip
- 2' x 2' Welded
- 2' x 4'
- 2" x 6" Furring C1, 16" O.C.
- 1/4" Corrugated Plaster on Wire Lath
- Bolt Screen Lacing
- BOLTS EXPANSION BOLT
- VARIOUS
- 2'-0" Furring C1, 12" O.C.
- 1/4" Corrugated Plaster on Wire Lath
- 2" x 2" Welded Clip
- Expansion Bolt
- 4" Cement Base
- CARPET
- Concrete Slab
- 12" Rad

**Detail of Steel Frame**

**Auditorium Side**

- ALL ANGLES 2' 1/2" x 2' 1/2" x 3/16" WELDED
- BASE AND FLOOR INTERSECTION
- LINE OF REAR WALL

**ISLAND THEATER, Bermuda**

**SCHLANGER, HOFFBERG, REISNER & URBAN ARCHITECTS**
INTERIOR OFFICE DEVELOPMENT

ARCHITECT'S OWN OFFICE
NEW YORK, N. Y.

INTERIOR office space, 20-odd ft. from windows, required special treatment:
Partitions door height, sliding glass above for light, ventilation, unity
Portable cases separate office, conference room; simplify any future moves
Conventional techniques and materials used throughout to reduce costs

Result: Contemporary design approach provides good working conditions
and surroundings which impress clients favorably.

Photos show, top left, reception; top right, conference; below, drafting room.
The problem here was to design offices containing a showroom in which the No-Sag Spring Co. could display its products (springs for upholstered furniture—hence the slogan on the wall); and also, as the plan on the following page shows, to make the full depth of the display space apparent from the elevator lobby. To assist in both purposes, lighting is by means of ceiling coves designed to pull attention to the interior of the space. The lobby wall is full glazed, with an adjacent mirror wall which makes even the remote corners visible from the elevator doors.
OFFICE AND WAREHOUSE BUILDING: glass wall in lobby

Wall Section: 3" Scale

Plan at Corner: 3" Scale

Section: 1/8" Scale

Plan: 1/8" Scale

WASHINGTON STATE GAME DEPARTMENT
Seattle, Washington

JAMES C. GARDINER & ASSOCIATES, Architects
GUSTAV KARLA, Consulting Engineer
Plan thru Mullion
1/2" SCALE

AERIAL LABORATORY: canopy

AIR REDUCTION SALES CO., INC.
New Providence, New Jersey

WIGTON-ABBOTT CORP., Engineers
BOLTON, MARTIN & WHITE, Consulting Architects
COUPLING OF MAIN ROOF

4-6
2:10
8-1/2
4-1/8
2:11-1/2

5/8" 2" SLOT AT BOTTOM OF EACH CORRUGATION

CORRUGATED ALUMINUM

FACE OF POSTS

1" X 1-1/2" ALUMINUM TUBE

1/2" X 1/2" ALUMINUM GUTTER

OVER DOORWAYS ONLY

1/16" X 9/16" ALUMINUM BAR

4" SOLID METAL SPLICE SLEEVE

4" BOLT

1/4" BOLT

JOINT

1/2" X 1/2" ALUMINUM TUBING

1/4" X 5/8" ALUMINUM BRACKET

Section 1/2" SCALE

Section HALF SIZE

NICE BALL BEARING COMPANY, Philadelphia, Pennsylvania
BRUSHED WITH CONCRETE PRIMER, THEN ASPHALT-ALIBET CEATING APPLIED

Detail at A 1/2" SCALE

Jamb

Glass Wall Section 1/2" SCALE

Sections 1/4" SCALE

Plan and Elevations 3/32" SCALE

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EASTMAN KODAK COMPANY, Rochester, New York

ENGINEERING DEPARTMENT EASTMAN KODAK COMPANY
ST. BARNABAS HOUSE, New York, New York

STAINLESS STEEL HANDRAIL
5/8" x 1/8" WLD IRON

TAP SCREW

LEAD

1" x 1" WELD SLEEVE 4" DEEP

RADIATION

LIONEL FREEDMAN / PICTOR

Rail Section FULL SIZE

5/8" x 5/8" WLD IRON BALUSTERS

3/8" D. EACH RIVER

Stair Section 1/2 SCALE

5/8" x 6" O.C.
5/8" x 12" O.C.

FACE OF CORING BEYOND STEPS
2 - 1" S. CONTINUOUS

1/2" x 7/8" METAL SAFETY TREAD AT EACH NOISING

4" x 6" No. 10 WIRE MESH 2 - 1" S. CONTINUOUS

ST. BARNABAS HOUSE, New York, New York

KETCHUM, GINA & SHARP, ARCHITECTS
Let's Look It Up

Laboratory Design  edited by H. S. Coleman

This treatise, sponsored by the National Research Council's Committee on Design, Construction and Equipment of Laboratories, is the work of a large group of eminently qualified specialists. The book is divided into four major parts. The first is a general discussion of interior construction materials, furniture, plumbing, light and power, ventilation, and safety measures. Part II is on teaching laboratories with discussions of every phase of their design, from site selection to interior arrangements. This section also has chapters devoted to various types of teaching laboratories such as those for analytical and organic chemistry and physical and electro-chemical, biochemical, chemical engineering, and metallurgical laboratories. Part III is on industrial laboratories with chapters devoted to special types of laboratories and their auxiliary rooms. The last part of LABORATORY DESIGN is the most interesting of all because it contains concise descriptions of various types of laboratories, complete with plans, sections, and photographs.

404 pages, 9x12, 300 photographs and illustrations, $15.00

Contemporary Structure in Architecture  by Leonard Michaels

Provides, for the first time, a comprehensive study of the architectural significance of contemporary structural development. Deals with all structural materials; the basically different ways in which they are used; the principles governing the whole range of structural evolution, from skeleton frame to shell, together with a critical analysis of their effects and influences on architectural design.

229 pages, 9x12, profusely illustrated, $10.00

Homes  by the Editors of Progressive Architecture

This is a book showing a large number of houses that have recently been built in all parts of the United States. Representing the work of outstanding residential architects, it pictures homes that have been selected by the editors for their pleasant livable qualities as well as general architectural excellence. There are 287 handsome photographs, 116 plan drawings, and just enough text to explain what the trends are in home design and what special features of these houses are admirable. The book is divided into three sections: one-bedroom homes, two-bedroom homes, and homes with three or more bedrooms.

190 pages, 9x11 1/2, profusely illustrated, $6.00

Apartment Houses  by Joseph H. Abel and Fred N. Severud

Contains the latest design, engineering, heating and landscaping information on apartment houses. Gives complete information on overall and specific design problems, as well as an analysis of how good design can affect the return on investment. Includes a discussion of the latest developments in structural systems, use of concrete, steel, and wood framing. Outlines the fundamentals of many possible heating systems which may be used in apartment houses, and in several cases includes an analysis of costs. Offers a careful analysis of the problems in vertical transportation and suggests many possible treatments in landscaping.

400 pages, 9 x 12, 500 plans and photographs, $15.00

Shops and Stores  by Morris Ketchum, Jr.

Whether you are an architect, engineer, draftsman, or store executive you will find this book a great help. The down-to-earth approach of its author assures you of getting the best, most comprehensive and complete information on store design. The author discusses, among other things: the scope and character of design for merchandising; analysis of business and space requirements; the small store in the city and on the highway; small store trends; the large store; the development of a street; structural design and materials; and investment values.

280 pages, 9x12, illustrated, $12.00

Theatres and Auditoriums  by Harold Burris-Meyer and Edward C. Cole

This book undertakes for the first time to derive theatre design from an analysis of function. The activities of the audience and the operations in presenting all types of productions, from pageant to solo concert to motion picture, have been studied and architectural requisites drawn therefrom. It provides the analytical basis for good design in a form which the architect will find especially useful in enabling his client to understand the scope and complexities of the problem.

330 pages, 9x12, 300 photographs and illustrations, $10.00

Any of these books will gladly be sent on 10 days' approval.

(Continued on next page)
Ways with Watercolor by Ted Kautsky

Twenty-four color plates you'll surely want to frame is one interesting feature of this book. Starting with a simple palette of two colors, Ted takes the student step by step through all the intricacies of watercolor painting. Landscapes, seascapes, pictures of houses, of boats, of wharfs, all are included. Faithfully reproduced in gravure, this book will be an inspiration to draftsman, student, amateur and artist. The accompanying text fully explains Kautsky's unusual technique.

120 pages, 9x12, $10.00

Pencil Broadsides by Ted Kautsky

Twenty-four brilliantly drawn plates by the author, magnificently reproduced by gravure on one side only of heavy antique stock. Twelve clear, concise and detailed lessons in text explain the broad stroke pencil technique and its application to the expression of architectural and landscape forms and textures commonly encountered.

The student of the pencil will find this book with its well arranged lessons a great aid to his progress. These lessons cover fundamental strokes; the indication of rough and smooth stonework; brickwork at large and small scale; various wood textures; structure and foliage of pine trees, oak trees, birch trees, and elm trees; the indication of roof textures; evergreen shrubbery and flowers at large and small scale. A single lesson offers pointers on composition. Each lesson consists of brief yet adequate text, together with one or more illustrations.

24 plates, 9x12, handsomely bound, $4.50

Pencil Pictures by Ted Kautsky

Similar in format to his earlier book, PENCIL PICTURES is bigger and better in every way. Unlike the PENCIL BROADSIDES, which dealt principally with technique, it treats the making of pictures in pencil out of the great variety of subject matter to be found in nature. Landscapes of the seashore, farming country, mountains, and woodlands — with fishing boats, barns, village streets, and country homes — are illustrated and analyzed with attention to the arrangement of picture elements in line and value to produce pleasing design pattern. 31 magnificent plates, drawn only as Kautsky can give to draftsman, student, amateur, and artist a set of inspiring examples from which to learn. The accompanying text explains the principles upon which the author bases his picture making.

96 pages, 9x12, $5.00

Perspective Charts by Philip J. Lawson (Now Printed In Red for Easier Tracing)

These 8 labor-saving charts have proven a blessing wherever accurate construction of instrumental perspective drawings of architecture, furniture, industrial design, etc. is required. Now printed in red, they will save even more time and drudgery than ever before as the color will be easily distinguished from the tracings. In using the charts, you merely lay tracing paper over the chart which suits your purpose and, following the directions given, proceed at once with your work. You trace such lines or utilize such measurements as your problem demands.

8 charts, 21x24, detailed instructions, per set, $4.00

Color In Sketching and Rendering by Arthur L. Guptill

This volume offers a vast fund of information on practically every phase of representative painting in water color and related media. Step by step, the text leads through complete elementary chapters (telling exactly what to buy and how to use it) to later professional considerations. Every point is fully explained and graphically illustrated. Numbered exercises are offered for students forced to work without a teacher. Many secrets of the professional artist are revealed.

There are 195 beautiful full page illustrations, many in full color, and 70 text illustrations; a complete index. We feel this is the most valuable text and reference book on the subject yet published.

350 pages, 9x12, handsomely and durably bound in cloth, profusely illustrated, $12.50

Drawing with Pen and Ink by Arthur L. Guptill

We do not hesitate to say that Mr. Guptill has provided the most complete, practical and profusely illustrated text and reference book on pen and ink drawing that has ever been published. This volume is based partly on lectures and instructions given by the author in his classes and partly on his experience as a professional illustrator and renderer.

The book furnishes a sound and thorough guide for the study of pen and ink and its various techniques. It is embellished by hundreds of drawings by the author and by examples of the work of many leading illustrators and renderers.

444 pages, 9x12, over 800 Illustrations, $10.00

Pencil Drawing Step-by-Step by Arthur L. Guptill

Taking the place of the author's Sketching and Rendering In Pencil, this entirely new volume has a far broader scope and is a better book in every way. Starting with elementary chapters which describe in detail the various drawing materials, and offer exercises in their use, it leads by easy stages through construction of subjects, outline drawing, light and shade, texture representation, composition, etc. Over a dozen comparative techniques are fully presented, including fine line and broad line work, mass shading, stump and solvent treatments, combined media, and work in a carbon, lithographic, and colored pencil, as well as special papers. Every common type of subject matter is considered: still life, architecture, interiors, landscape, animals, and the human face and figure. Special sections feature the work of top-flight pencil artists in such fields as architecture, landscape architecture, interior decoration, industrial design, illustration, and advertising.

200 pages, 9x12, profusely illustrated, $8.50

Modern Furniture Design and Construction by Prof. Mario Dal Fabbro

With over 400 furniture designs, including desks, chairs, sofas, etc. — this book affords a vast choice of original and basic designs from which it is possible to create new types and styles of furniture. This book, aside from its esthetic value, is a must for architect, interior decorator, manufacturer, and hobbyist, who would like to modernize or manufacture something new — something different in furniture.

175 pages, 9x12, illustrated, $5.50
The Work of Oscar Niemeyer

Edited by Stamos Papadaki

Includes all of Niemeyer's better known designs as well as many old and new works that have never before been published. Details of the work of sculptors, ceramists, muralists and other artists such as Portinari, Lipschitz, Céspedti, Giorgio and Viereck are presented. Niemeyer's architecture is acclaimed far and wide for its unusual beauty and utility. His Ministry of Education Building alone is famous the world over.

Architects and engineers everywhere will be particularly interested in the construction methods and details of Niemeyer's use of concrete in many of his structures. The book will not only prove an invaluable reference work but will aid those who are interested in understanding modern architecture.

220 pages, 9x9, profusely illustrated, $10.00

Fundamentals of Perspective —
(Enlarged Second Edition)

By Theodore DoPastols, A.I.A.(F)

The first edition of this work proved so useful that over 10,000 copies were sold — many as a result of enthusiastic recommendation by those who found here a simple and easily understandable method of showing the order in which the lines of perspective are drawn.

In this new enlarged edition, there are included 30 plates, 10 more than appeared previously. Most of the plates appear in 4 colors which greatly clarify the drawings. Each line of the constructed perspective is numbered and its direction signified with arrows so that the procedure and reasons for it become quickly apparent.

There is no simpler, surer or more proven method for learning and understanding all types of perspective drawing.

30 plates, four colors, $5.00

Planning Secondary School Buildings

By N. L. Engelhardt, N. L. Engelhardt, Jr., and Stanton Leggett

A comprehensive treatment of the problems faced by superintendents of schools, Boards of Education, and architects in planning junior or senior high school buildings that will aid modern educational programs.

280 pages, 9x12, illustrated, $10.00

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