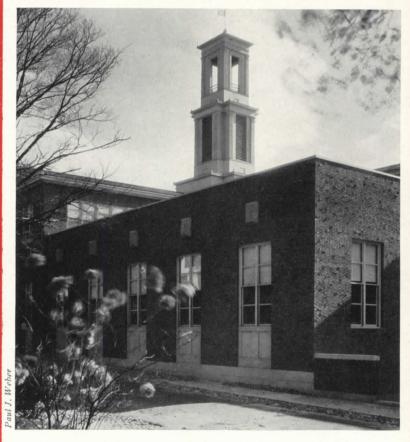
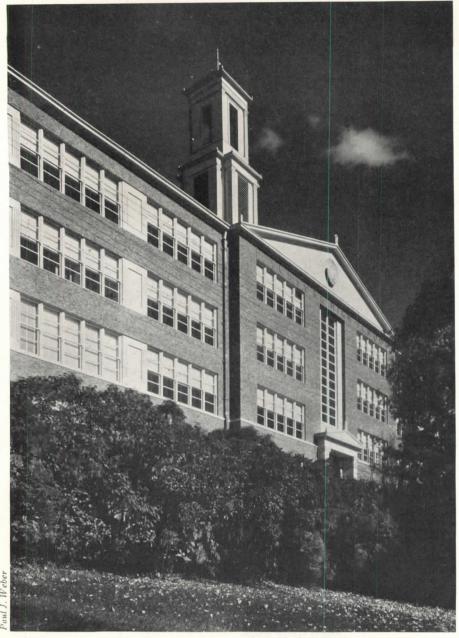
BUILDING NEWS



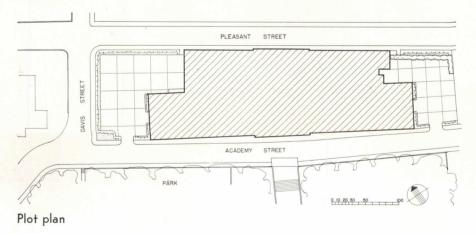
From Boston's classicists, a new use of Greek Revival . . .



MODERN AND NEO-GREEK COMBINED IN NEW ENGLAND HIGH SCHOOL



Front elevation from park



COOLIDGE SHEPLE BULFINCH and ABBO Architect

A Boston firm, long famous for precise rendering of the Colonial a Georgian vernacular at Harvard U versity, has recently completed t new building for the Fitchbi (Mass.) High School. Shifting th medium somewhat, the architects ha here employed a greatly simplif Greek Revival, which permits juxtaposition of Classic and conte porary detail (pedimented doorw alongside horizontal spandrels a muntins) in such a fashion as ma rially to reduce the "fussiness" of found in designs employing the Co nial vernacular.

Plan of the building—which places an earlier school destroyed fire—was determined by a small a irregular plot. Although a str separates them, the school overloo and its students use the city park the south. The slope of the plot such that direct access to both at torium and gymnasium is provided the north, while main entrances classroom areas are on the lower le to the south. This ground floor largely given over to administrati staff and gymnasium activities, wh classroom areas are concentra along the southern front of the th top floors. A maximum student po lation of 1,600 is thereby provided:

Exterior walls of the school of red water-struck brick with Fit burg granite trim. The cornice leaded copper with wood and cop cupola; soffits of all cornices painted vermilion. The entire struction is second-class fireproof estruction, fully sprinkled, with ficlass fireproof construction in all cridors and stairways. The school almost entirely heated by warm circulated by ducts from a cen heating plant.

d floor

Food laboratory II. Men teachers Stores Demonstration Sewing labora- 14. Freehand draw-

tory Classroom Study

Office and bookroom Biology labora-

tory Preparation Boys' toilet

15. Rectifier 16. Oral English and music

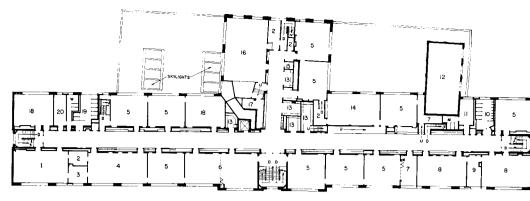
12. Scenery hoists 13. Locker alcove

ina

17. Instrument room 18. Bookkeeping

19. Girls' toilet

20. Girls' rest room



ond floor

Typewriting Office machines Bookkeeping

Bank Classroom Physics laboraory rep room Lecture room Chemistry lab-

pratory

10. Boys' toilet 11. Men teachers

12. Dressing room 13. Locker alcoves

14. Bookroom

15. Girls' toilet

16. Women teachers

17. Projection booth

18. Fly floor 19. Storage

UPPER PART OF ä b 🖚 🚥

floor

Health suite tudy ibrary itacks Classroom

ookroom Women teachrs

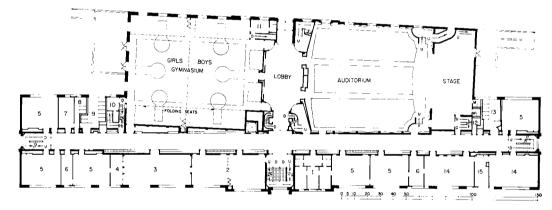
9. Girls' toilet
10. Girls' instructors

11. Boys' instructors

12. Men teachers13. Boys' toilet

14. Biology laboratory

15. Preparation



ınd floor

rincipal Vaiting space Vaiting space
(ault
Ass't Principal
Classroom
inishing room
anitor
Vomen teach-

rs Pirls' toilets umber storage Corrective room Pirls' showers Pirls' dressing oys' showers

15. Boys' drying16. Boys' dressing17. Boys' toilet18. Visiting team

19. Towels 20. Storage

Help's lockers 22. Ice cream

23. Dishwashing

24. Office 25. Candy shop 26. Teachers' dining

27. Fan room 28. Men teachers 29. Blueprinting

135 CAFETERIA 11 10 KITCHEN MECHANICA: T PRINTING

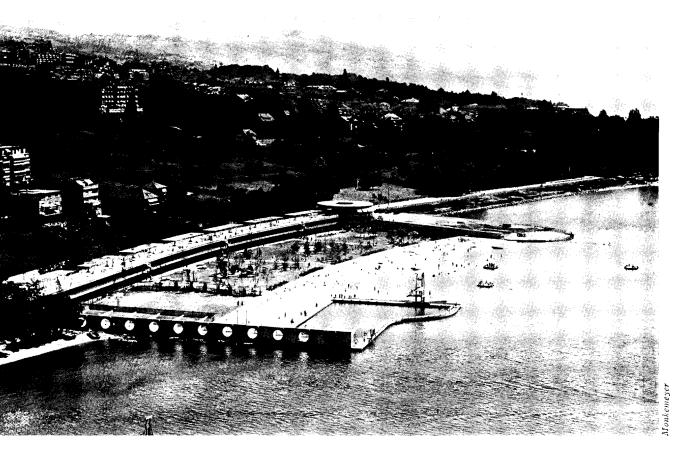
FITCHBURG HIGH SCHOOL



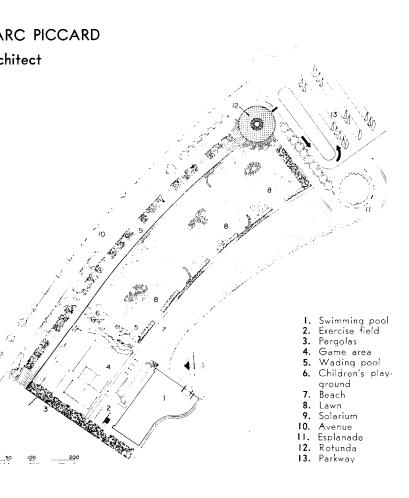
East and west wings repeat the central motif on the front.



An unusually well-equipped stage serves the large auditorium. The decorative dado is of alternate veneers of birch and maple. Ceilings are acoustically treated and have recessed lighting.



ACH PARK IN SWITZERLAND CLAIMED FROM BOTTOM OF LAKE

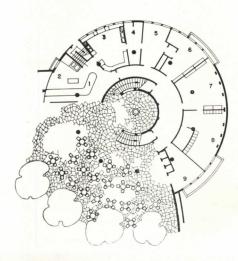


Bellerive is a new beach park on Lake Geneva, west of the city of Ouchy. It is one of what will eventually be a great chain of parks, playgrounds, and other public projects extending eastward from this point to the city. A network of roads, wharves, and esplanades will assure easy communication with the city.

The entire beach at Bellerive, about 200,000 sq. ft. in area, has been dredged from the bottom, and lies lakeward of the natural shore line. On the side nearest the city are quays and a parking area for automobiles. Entrance to the park is by way of a circular building in which are located a restaurant and general personal services. From this rotunda there is direct access at each floor level to a three-story bathhouse which extends parallel with the beach for about 800 ft. On the west a leaf-shaded pergola leads from bathhouse to pool. In the great central space between beach and cabins are game areas, lawns, and paved rest spots; further growth of recently planted trees will, in time, give this area a more verdant appearance.

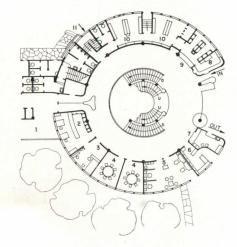


Rotunda at northeast corner of park. The ground story of the building opens on a lower grade beyond retaining at left. A restaurant occupies the top story and opens directly onto the bathhouse sun terrace, which extends length of the beach. Entrance to bathhouse is on first floor; persons at right are awaiting admission.



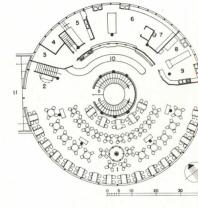
Ground floor

- I. Buffet
- Office
- Scullery
- Cellar
- 5. Beer
- 6. Wine cellar 7. Employees' din-
- ing room 8. Linen 9. Rentablearticles



First floor

- I. Balcony, wom-
- en's section
 2. Office
 3. Bath sup't.
 4. Salon
- 5. Hairdresser
- Soiled linen
 Ticket office 7.
- 9. Clean linen 10. Steward
- II. Service entrance

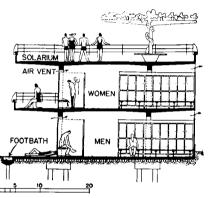


Second floor

- I. Restaurant
- 2. Grill
- 3. Storeroom
- Cooling room
 Cold foods
- 6. Kitchen
- 7. Bakery
- Food prep tion
- 9. Dishwashing 10. Buffet
- II. Sun terrace

WISS BEACH PARK



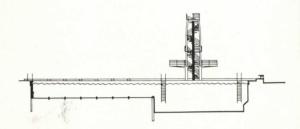


en's cabins at ground level, women's abins above, sun terrace on top; piral stairways at regular intervals

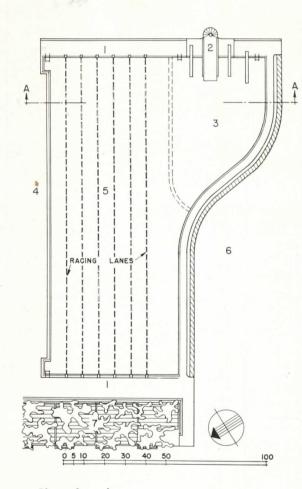


ne of the many paved and shaded st areas for nonbathers

SWISS BEACH PARK



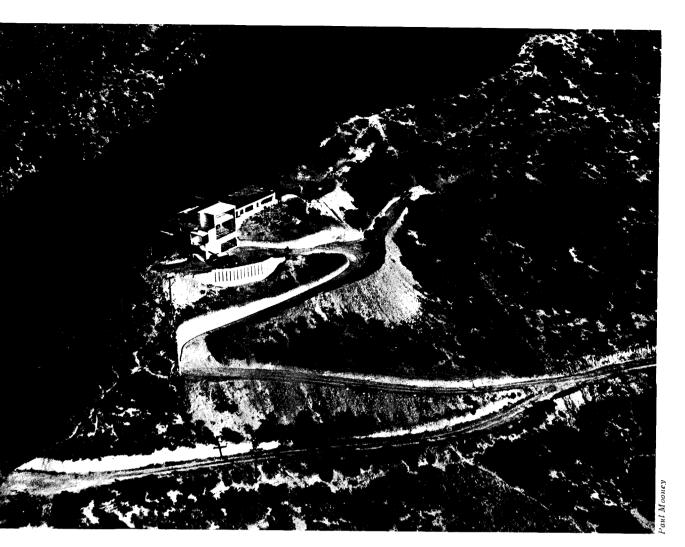
Section of pool



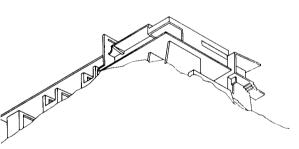
Plan of pool

- Starting platform
 Diving tower
 Diving area

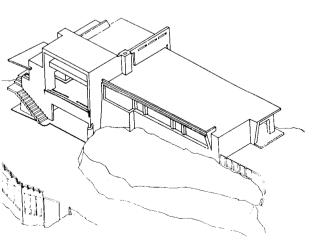
- Beachside
 Swimming section
 Lakeside
 Pergola



USE FOR WRITER AFFORDS PRIVACY AND SPECTACULAR VIEW

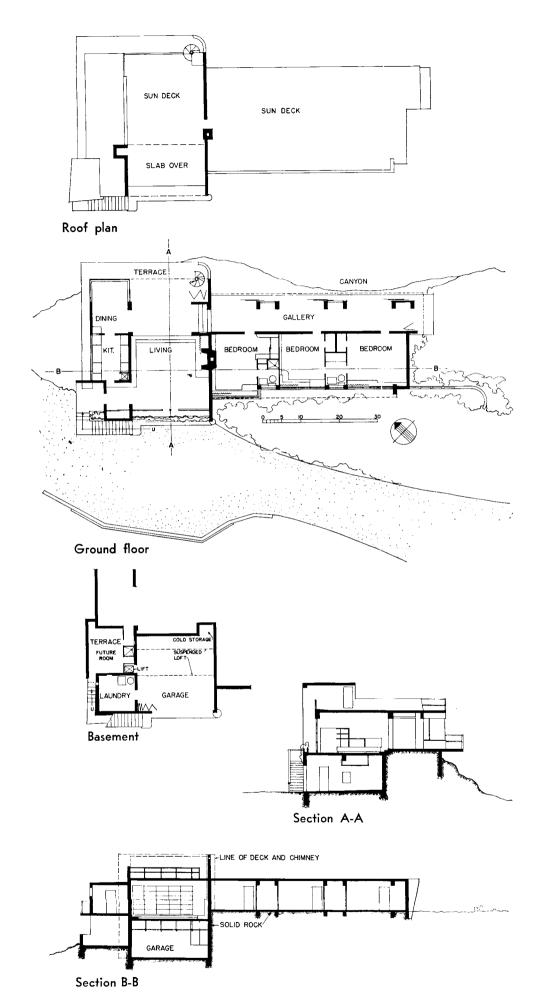


ALEXANDER LEVY
Designer



Five hundred feet sheer above an ocean-inlet canyon at Laguna Beach, California, is the house of Richard Halliburton, writer and traveler. At the top of a steep roadway a 17-ft, retaining wall, hooked back into the bedrock, supports a level area from which the work of building was done. The site affords spectacular views in three directions—eastward through an uninhabited canyon to the mountains 80 miles away, northwest along the coast for 70 miles, and southwest across the Pacific for more than 60 miles. Every room in the house controls an ocean view and a canyon view.

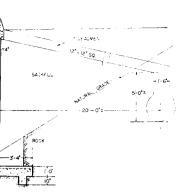
The house is in earthquake country, sparsely settled and without adequate fire protection; therefore, concrete was indicated as the construction material. The use of reinforced concrete has made possible a lightness of structure and a width of span which permits maximum exploitation of the view.



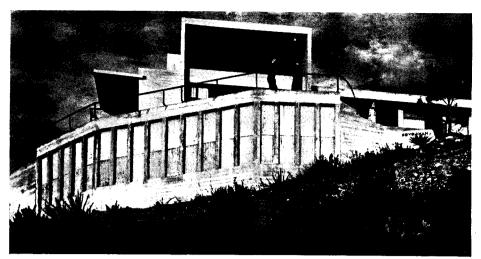
THE advantages of reinfor concrete construction have 1 utilized most fully in the de of living room and dining ro The latter has a 6-ft. cantilev bay permitting an unobstru view in three directions. living room has only two bea walls. On the sunset side 9 x 20 ft. clear glass curtain o ing onto a narrow balcony. posite are steel and glass acc ion doors, 8 x 16 ft.; these on a terrace cantilevered the rim of the precipice, 50 above the floor of the canyon

An iron spiral stair rises: terrace to roof, where a roof-shelter provides space for door living in the California A dumbwaiter leads from ga to kitchen to roof, and meals be served here without ir venience.

All ceilings, like walls floors are of reinforced conc floors are integrally colored. Vand doors are soundproofed suring privacy to the two w who live here.



ing wall, hooked back into bedy concrete beams. Parking and round space is provided above.

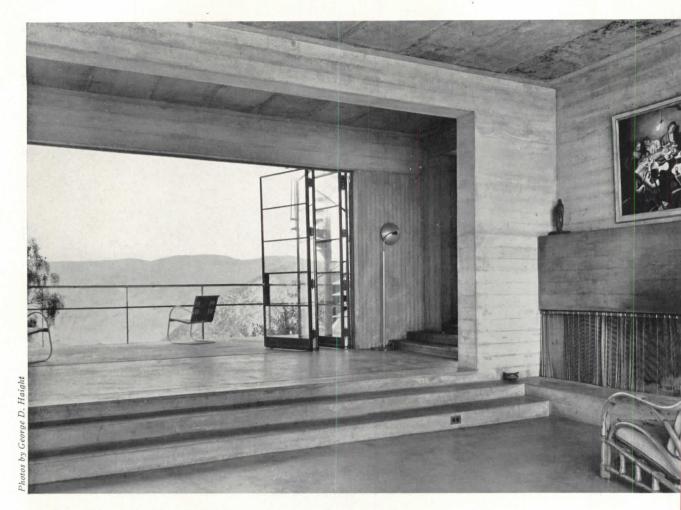




View from south



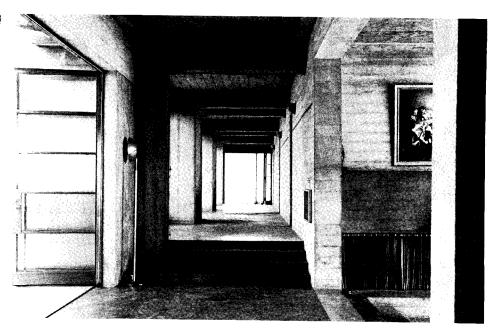
View from east



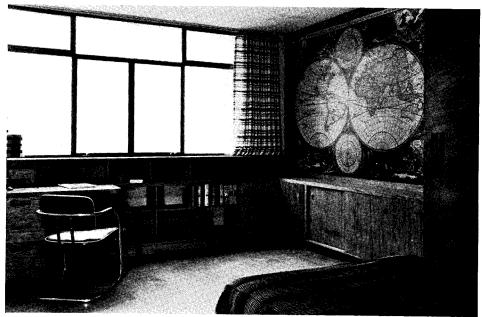


ABOVE: Living room, looking west. The eleviconcrete hearth merges into three concrete scrossing the width of the room. Hearth steps provide seating for a relatively large ber of guests, without cluttering the room too many chairs. LEFT: Dining room, seen gallery; bay is cantilevered over canyon

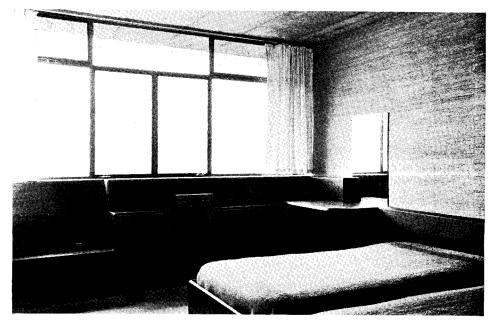
CALIFORNIA HOUSE



Gallery, looking southeast



Master bedroom

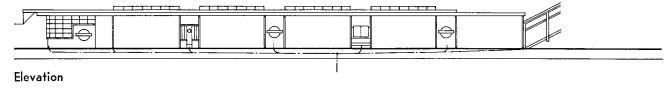


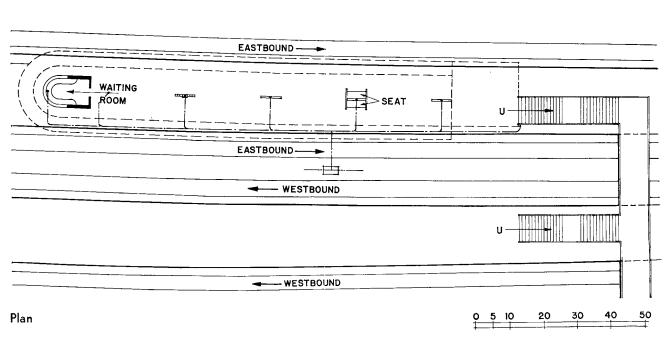
Guest bedroom



Waiting room, eastbound platform







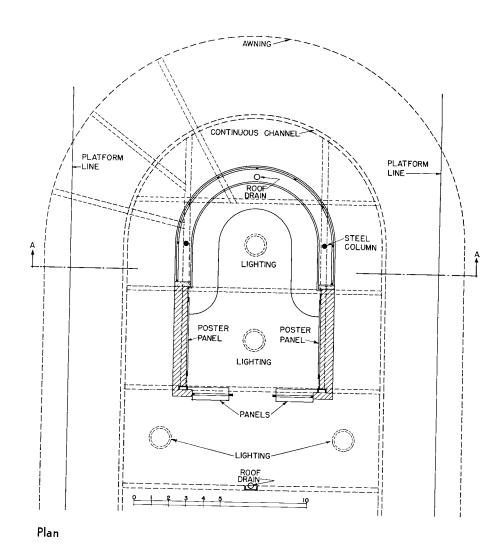
ILROAD WAITING ROOM PERMITS EASY VISION IN ALL DIRECTIONS

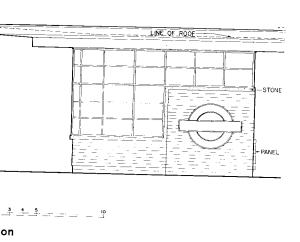
LONDON TRANSPORT

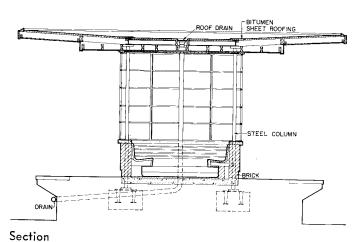
Designers

WAITING ROOM of the h Ealing Station in Lon-commands an unobstructed in all directions; east- and bound trains on all tracks be observed with ease.

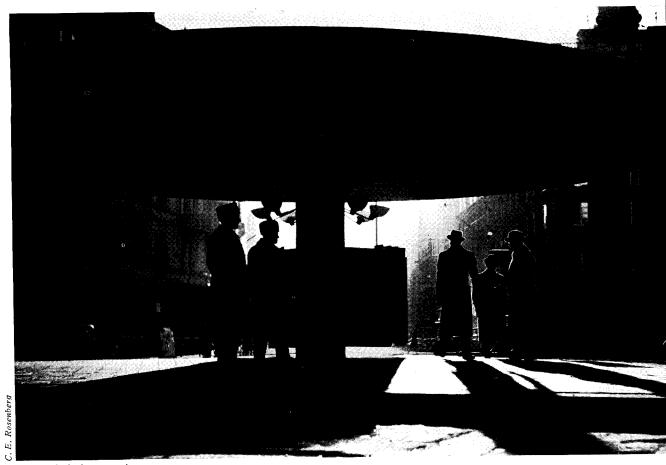
E particular interest is the cruction of the roof, which its waiting room and platared with asbestos are suppled by a welded steel frame, underside is lined with Test" fiberboard and finwith flat oil paint. The slopes slightly downward and the center to a series of pipes along the platform, a empty into an existing toole.



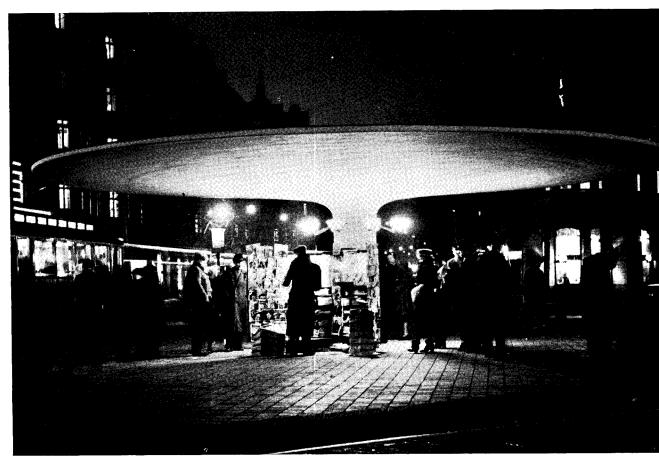




BUILDING N E W S



View of shelter at dawn



View of shelter at evening. This is a busy street intersection; trolleycars pass on three sides. In inclement weather, waiting commuters are shielded from snow and rain.

AIN SHELTER OFFERS MINIMUM OBSTRUCTION TO TRAFFIC

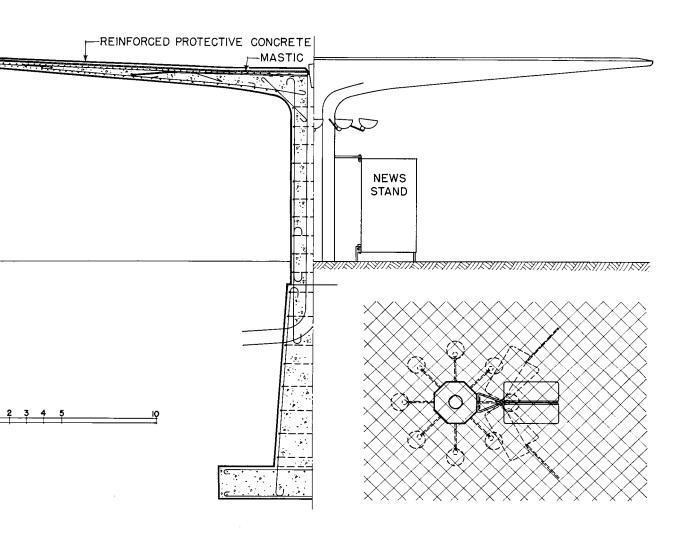
HOLGER BLOM Architect

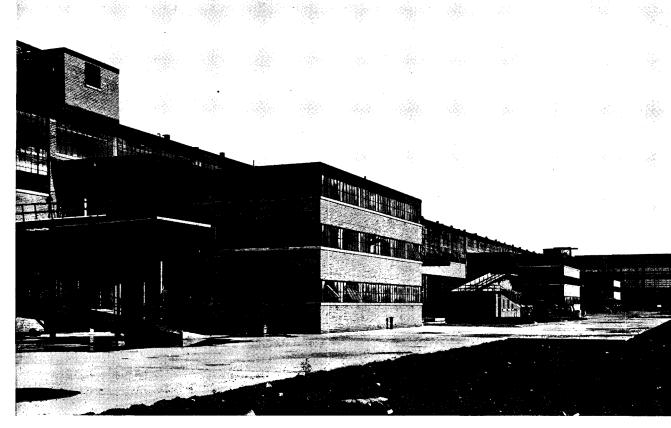
> E. WRETBLAD Engineer

AIN SHELTER constructed by the City of Stockholm, den, performs its function with minimum obstructo pedestrian traffic. In form like an inverted rella, it slopes downard slightly toward the center an outlet carries off the water. Below grade the gonal pillar passes through a bed of clay, its base-resting on a substratum of fine sand more than a underground.

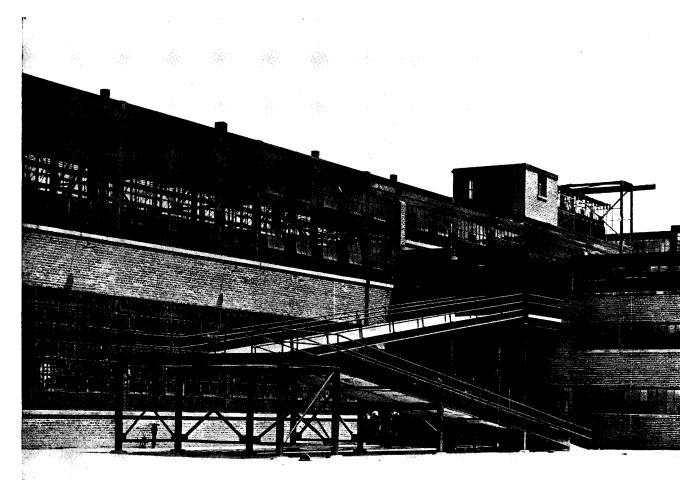
he material, cast in a form of hardened masonite, is forced concrete throughout. Reinforcing of the slab is arranged as a network radiating from the er. High tensions in the upper part of the slab are taken by flat iron radii welded to a series of flat iron rings. The rest of the reinforcing consists of round bars, which are also joined by welding. Roof insulation consists of mastic with a protective layer of reinforced concrete above it. A sheet-copper drip runs around the edge of the roof. Visible concrete surfaces have been covered with two coats of a light grayish-green mineral paint. (See AR, 4/38, pp. 46-49.)

Close to the octagonal pillar is a newsstand operated by a vendor who has had his station here for almost a half-century. The stand is of welded sheet-iron and may be shut at the close of business.





Towers for personnel facilities—lavatories, lunchrooms, etc.—are shown. Each tower accommodates 250 workers.



Ramp: Center railings are removable; gradient is suitable for electric trucks; space underneath may be used for stora

ODUCTION INCREASED BY SEGREGATION OF AUXILIARY AREAS

IGGS MANUFACTURING COMPANY

signers

R. WYLIE

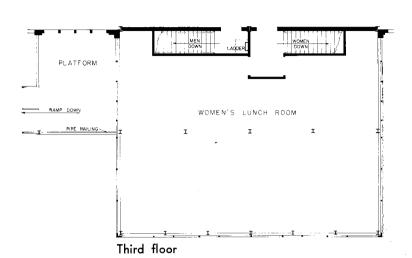
erintendent of Construction

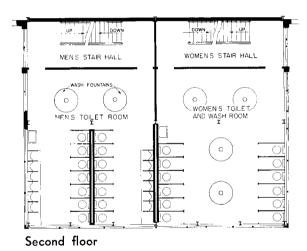
TE PLANT of the Briggs Manufacing Company in Detroit, Michigan, interesting for its separation of kiliary facilities—lunchrooms, lavaies, elevators, stairways, etc.—from rking spaces. Previous experience demonstrated that continuity of oduction areas brought increased ciency.

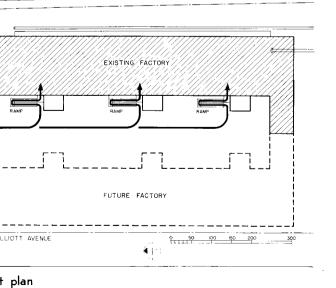
Employee facilities are contained in vers, three stories in height, adjant to the plant itself; each tower can commodate 250 workers at one time. evators have been eliminated: ramps a used instead: these have been dened with removable center railings d with gradient that will permit ang electric trucks to carry to the cond floor those materials which cant be handled by conveyor lines.

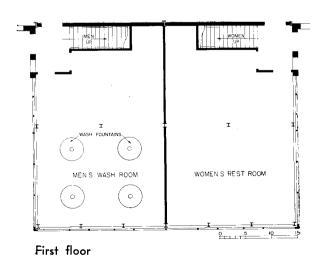
Snow or ice formations on ramps e not expected to cause trouble; the me areas must usually be cleared yway. If necessary, steam can be ed to clear ramp surfaces—there is a cam outlet under each ramp.

Space under ramps can be used for orage tanks or for other objects nich cannot conveniently be kept inle the building.

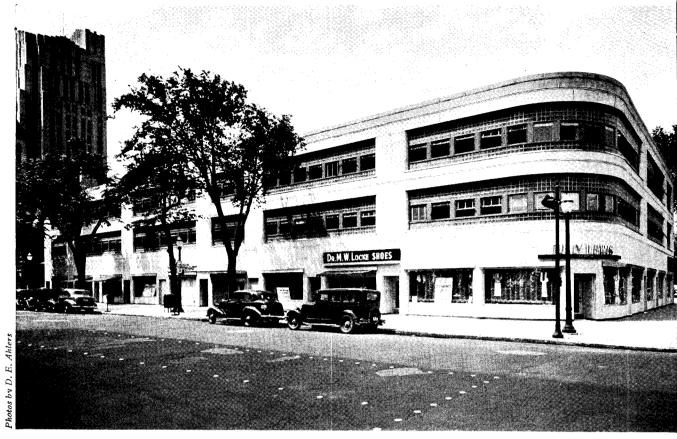








BUILDING N E W S



Talbott Realty Building. Structure is a combination of reinforced concrete and steel framing. Exterior is limestone



Talbott Realty Building. There is a parking area at the rear of the building.

ISIGN FOR AIR CONDITIONING PLUS ACCESS TO OUTSIDE AIR

DOUGLAS LORENZ, AIA

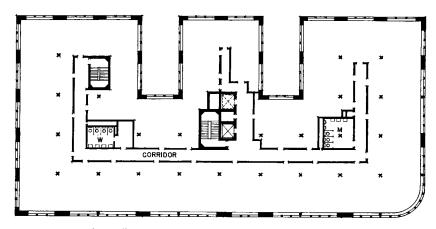
chitect

E DESIGN of the Talbott Realty ilding in Dayton, Ohio, has been intended strongly by air-conditioning uirements. Exterior walls include ge panels of glass block and metal h: glass block for maximum light h insulating value, metal sash for on and access to outside air—still chologically necessary to many ants.

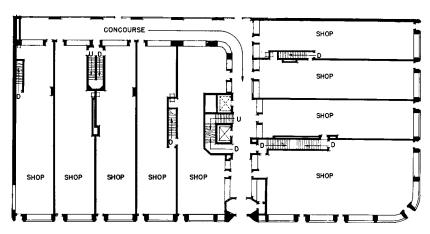
For winter conditioning, steam coils viced from mains in the street transheat to blower and duct systems bugh which air is filtered, tempered, distributed. In summer, air is led by well water pumped through s and delivered by the same blower duct systems. The well water is lly ejected upon the roof, covering entire area three inches deep and viding additional cooling for top-r offices.

On the west wall of the building, is block is again used generously the ground floor, admitting daylight the corridor and into the rear dows of retail shops.

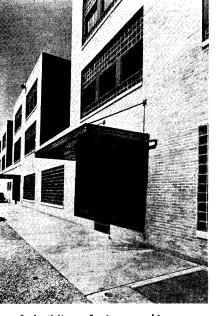
The basement includes two large p areas, one of which is fully ipped and furnished for cafe or nt-club purposes.



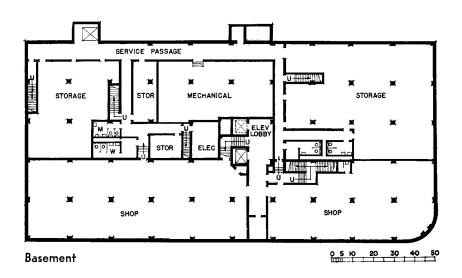
Second and third floors



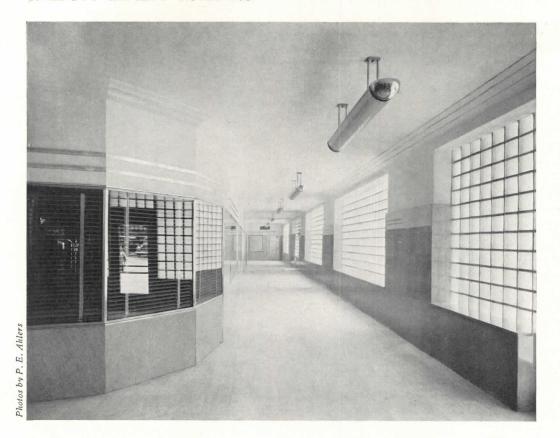
First floor

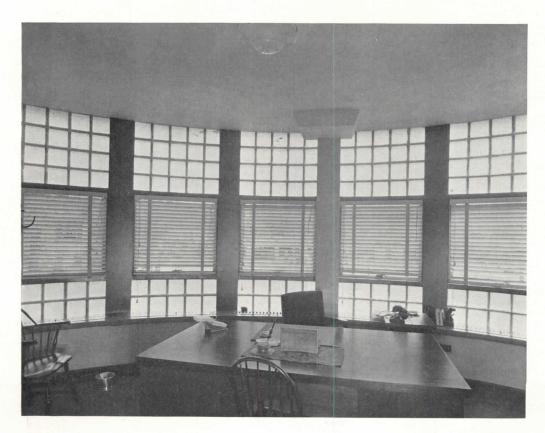


of building facing parking area



TALBOTT REALTY BUILDING





TOP: Retail shops have interior frontage on a spacious corridor leading both to street and to parking area. Use of glass block in wall reduces lighting costs. BOTTOM: Typical office. Each glass panel is about two-thirds glass block and one-third metal sash.

ANNING DETAILS





ansom Lighting Brings Increased siness to Cleveland Stores

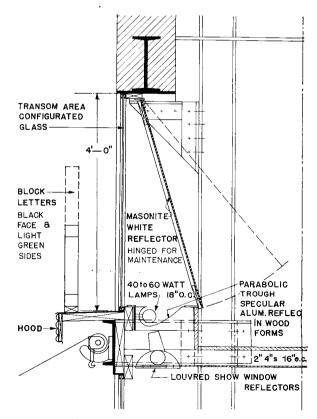
T. MASTERSON

chitect

M. POTTER

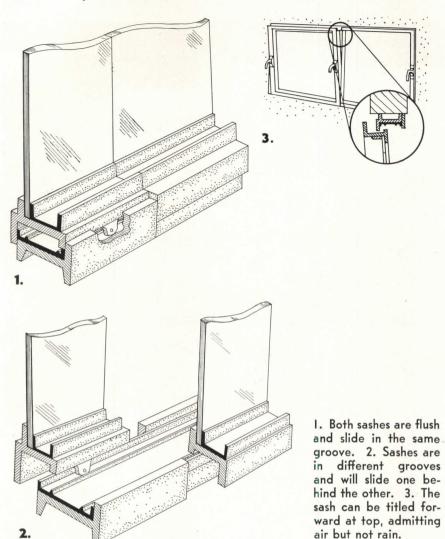
minating Engineer

ansom lighting of two newly remodeled storents in the Cleveland area is credited with havbrought quick rentals and increased sales. As art of the work of modernization, "hung-on" ctric neon signs have been removed and connous transom lighting has been substituted, is system of illumination is said to give greater bility and to avoid glare and blur.



Detail of transom lighting

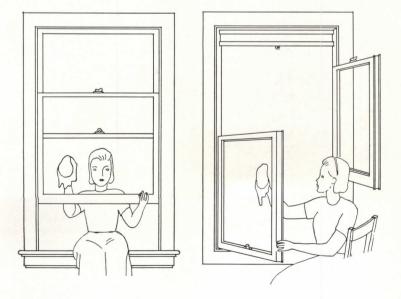
NEW EQUIPMENT



Metal horizontal-slidi window-frame introduc

RECENTLY INTRODUCED in Belgium a metal window frame which sli horizontally, and which can also tilted forward at the top admitting but not rain. To open, one sasl pushed out, the other is pulled each is then in a different plane can slide one behind the other. W closed, both sashes are in the sa plane and the window is said to absolutely weathertight. Hinges weights are unnecessary, as the of ating mechanism is contained in sash. Among the advantages clair for this window are the following that it can be cleaned more ea than vertically sliding sash; tha can be opened without the remova articles inside; that it can be mounted without tools to admit niture or other large equipment; it will not move and clatter in a str

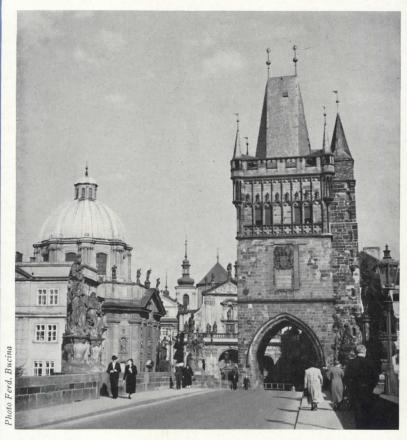
American patents have been appfor, but no distribution licenses by yet been granted here. Licen agreements have been made some foreign manufacturers, incling Canadian and British firms. firm of John Thompson Beacon Wows Ltd., Beacon-Works, Wolhampton, England, holds the Brilicense.



Window combines casem and double-hung sash

THE SUPREME WINDOW, many tured by the Supreme Window S Corporation, 45 W. 57 St., York, N. Y., acts both as don hung sash and as casement. mally, it operates as a double-l window; but when the lower sas raised to within a few inches of top and the upper sash is compl lowered, the two sections can swung into the room and moved and down to any position des When swung in, cleaning, regla and painting are made safer easier. The window comes in stock sizes and in special sizes wood and in metals, assemble knocked down.

DESIGN TRENDS



PRAGUE-An ancient background for modernism





RAGUE . . .

A thousand years ago this "town of a hundred towers" became the capital of an independent Czech state. Today, as the metropolis of the Czechoslovakian Republic it ranks eighth in area, eleventh in population, among European capitals.

E HISTORY OF PRAGUE is the history of the ancient Kingdom of emia and, in a certain sense, the history of Central Europe. Ever e the Premyslide princes fortified a rocky eminence on the lower hes of the Vltava River, Prague has been important as a factor he economic, political, and architectural development of Central ope.

inder Charles IV (1346-1378) of the house of Luxembourg, Prague me the largest city of Central Europe and the cultural center of Holy Roman Empire. For over a century Prague developed as a of Gothic architecture; but late in the 15th century the city's acter changed under the influence of the Italian Renaissance. In a rebellion against the ruling House of Hapsbourg was followed Catholic Restoration that converted Prague into a Baroque capital period that ended about the close of the 18th century. Prague me Germanized as a provincial town of the Austro-Hungarian bire until the Czech element reasserted itself in 1861.

dodern Prague dates from 1918 when it became the capital of the choslovakian Republic. The city expanded; and the rapid constructor of new buildings, streets, and parks added entirely new quarters he old city. New bridges were thrown across the Vltava and some me streets and old structures changed. But largely the character he ancient town was preserved; and the development of modern gue is most evident in outlying districts.

hroughout this development the Czechs have sought the newest. E-war architecture changed from "cubism" to "the plastic-decorastyle" into what is now generally called "modern." Spurred by post-war pioneer architects of Holland, Russia, France, and Gery, Czech architects rapidly mastered a technique of their own. following pages report recent solutions to a variety of design prob. The buildings suggest the trend of Prague's future development. It also provide a commentary on the influence that availability of materials, equipment, and services—here as well as in Central ope—is having on solutions to current problems of building design.



HOUSE ...



On wooded slopes of suburban Prague modern houses provistartling contrast to the fortified castles of the ancient Czech nob This one, designed by Ladislav Zak, architect, is part of a small c try estate that includes a garage and a greenhouse. The terrelevation faces south giving the second-floor living rooms greatest amount of sunshine and a clear view of the entire estate.



DESIGN TRENDS

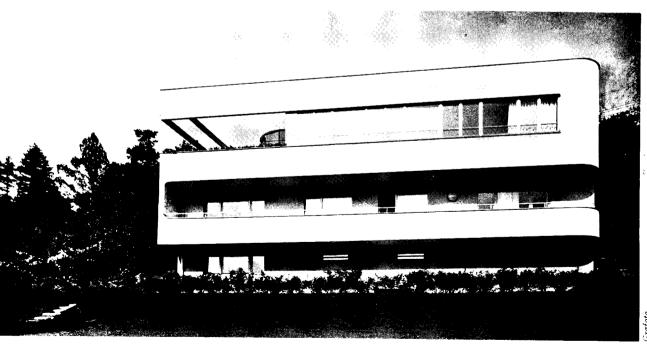


Construction is a combination of reinforced concrete and brick bearing walls, insulated with sheets of treated wood shavings. Windows are double-glazed; doors, plywood in steel frames. A partition of plate glass slides out from the wall to separate living room and study spaces when desired. The house is heated with a warm water plant; domestic hot water is supplied from an electric unit.



Second floor







View from living r toward dining r (left), kitchen (cen and study (right).



Dining room. Tell beyond bay is during the summer an open-air living dining room.

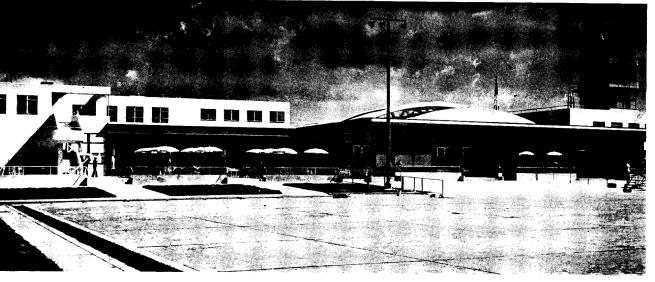
IRPORT...



The newest and largest of Czechoslovakian civil airports—Ruzin Airport at Prague—serves as an important junction of international and local airlines. The airport building, designed by Adolph Benes, architect, contains a large waiting room, customs, ticket, and administration offices and an excellent restaurant.



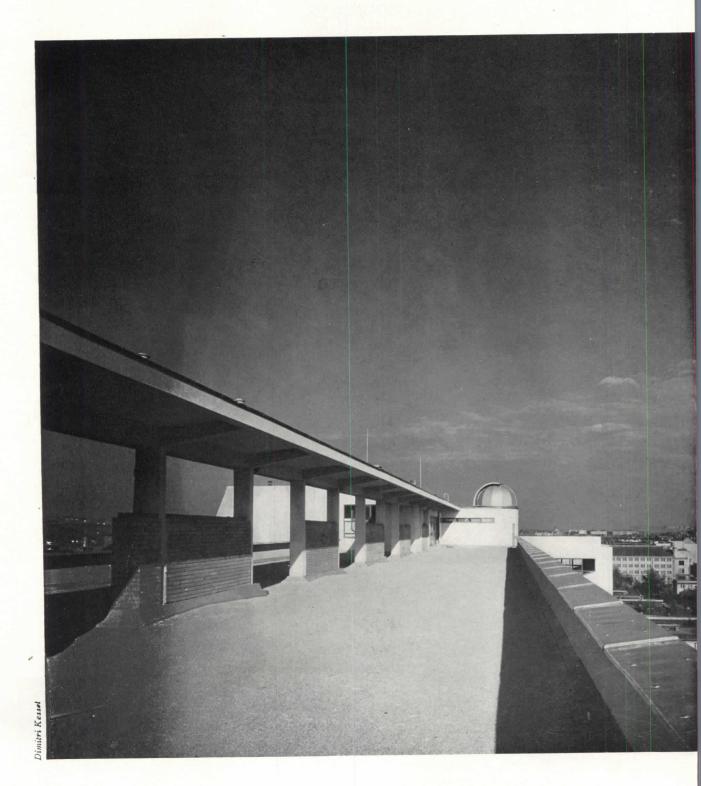
truction is largely of reinforced ete, plate glass, and stainless The concrete is faced with d white ceramic tile.



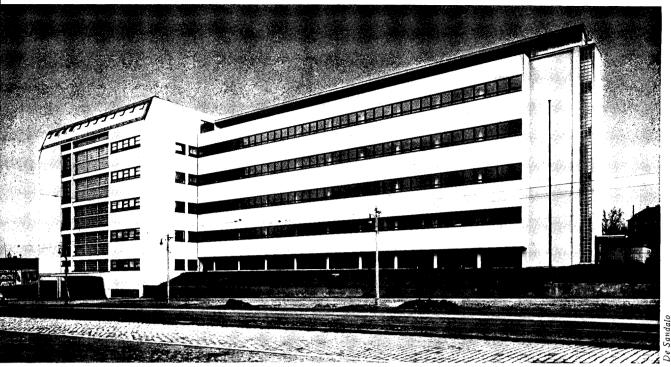
SCHOOL ...



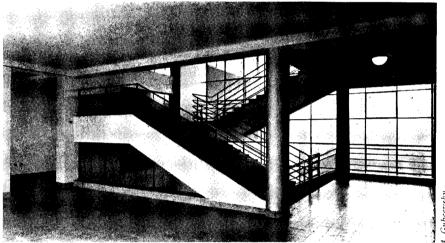
Prague, wherein is located the oldest university in Central Euro numbers among its modern educational plants, the Reform Grammar School which corresponds generally with a comm cial high school in this country. Owned and administered by State, it was designed by Eugen Linhart, architect. Its modern te nical equipment includes a small astronomical observatory par shown in the picture below.



DESIGN TRENDS



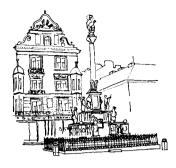




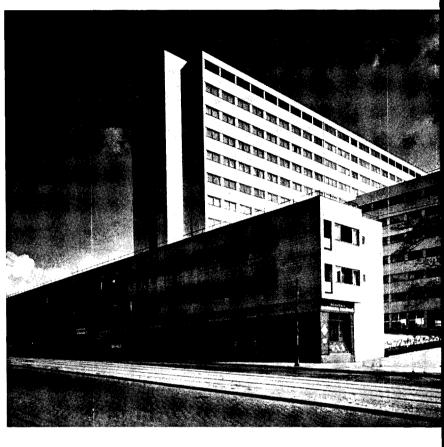


ke several other modern structures Prague, this school is faced with ent stucco colored a deep buff. recreation terrace on the roof, which is detail on the facing page, is acced with ten-colored terrace. this page, right, is a typical cor-r lined with well-lighted and venti-d locker spaces.

OFFICE BUILDING ...

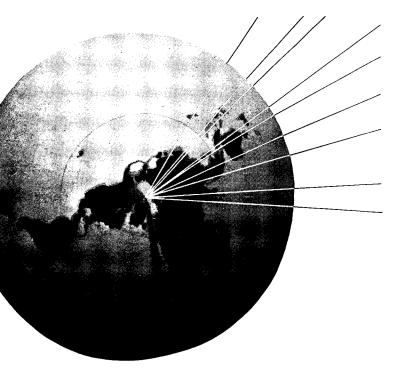


In the newer portion of Prague is the General Pension Institute, designed by J. Havlicek and K. Honzik, architects. The highest modern building in Prague, it combines office space with a number of apartments and stores. It is airconditioned throughout, constructed of reinforced concrete and faced with white glazed ceramic tile. Below, right, is a view of the main entrance at the upper level of the slope on which it is built.









An air-wise map of the Earth, devised by Buckminster Fuller. It centers on the north pole, and in it all dry land appears to be one continent. Fuller calculates that if man were to be deployed over the pleasantly livable and arable areas there would be but 80 persons to the square mile. On this basis each family would have about 80 acres. He also calculates that if all the earth's $2\frac{1}{3}$ billion people were to stand one upon another's heads, they would make nine complete chains to the moon. Compacted, they would make 10 billion cubic feet. "Yet if put under a gigantic hydraulic wine press, so that all the water and gas might be squeezed out of them, they could be compressed into one Empire State Bldg.'

MAXIONIZING THE UNIVERSE... a review of Nine Chains to the Moon

YEARS AGO there came out of Chicago an inventor a small-scale model of an extraordinary sort of ing—an hexagonal-shaped affair suspended by cables a central utility tower mast—which he argued could ctory-fabricated in quantities so large that the econs would be like those in the auto industry. The e was called the Dymaxion—a term coined from amic" and "maximum." Soon, he predicted, it the in production.

decade has gone by. The Dymaxion House still ins an idea, but the world of architecture has ged considerably. If the changes seem revolutionary naracter, then Buckminster Fuller, the Dymaxion heer, can be held largely responsible. His ideas a prefabrication have penetrated far; it is now a gencelief that inevitably the building field will be complished accomplishments. In 1933 came the axion Car, a 3-wheeled rear-engined streamlined ter-mobile" designed in collaboration with Starling ess, the racing yacht architect. In 1936, out of the pos-Dodge research laboratories, came his integrated foom, a structure with walls, floors, and fixtures ded all as a single compact unit.

ow comes a book* on the Dymaxion philosophy, and we prediction that before July 12, 1948, the mass proon of mechanical chassis of dwellings will attain a million units per annum, in the U. S. the curve rising rapidly therefrom at the end of the ten years." e are 21 other predictions, covering such diverses as population shifts, a mechanical stock exchange,

e Chains to the Moon. R. Buckminster Fuller. Publ by J. B. Lippincott Company, Philadelphia and New . 406 pages; maps, charts, diagrams, including a gology of scientific events from antiquity up to 1936. \$4.

new farm mechanics, socialization of leisure, labor evolution, insurance evolution, and the change in name of New York City to "Radio City", all neatly tabulated.

Forecasting is a necessary consequence of the Dymaxion philosophy which holds that everything in the universe is constantly in motion, and that if the cosmic forces are recognized and their interplay understood, then the inevitability of certain trends becomes apparent and various events in the line of evolution can be anticipated. To this extent Fuller is a materialist in his philosophy.

But he goes further: in an expanding universe, which he takes as his basic concept, the pattern of inevitability is revealed long in advance to those who have a teleologic perspective of the universe. At this point there creeps into his rather mechanistic philosophy a mysticism which is perhaps best understood if one remembers that Margaret Fuller of the Brook Farm transcendentalists was his great-aunt.

Man, so he states, is guided by a "phantom captain," who abandons ship at the instant of death. This captain has neither weight nor tangibility, but he has an infinite understanding and sympathy with all captains of mechanisms similar to his. What is this sympathy? It is "an intuitive awareness of perfection which serves as a universal yardstick relative to which any sense experience may be measured, and by virtue of which conscious selection may be made." Since some phantom captains are more sensitive than others, it is obvious that some individuals are favored to see farther ahead.

Into this idea of a superior and purposeful existence, which is expressed in fear and longing as the primary motivations of man, is blended the idea of an expanding universe. In such a universe it follows inevitably that the longing types of humanity should become dominant. Out of longing come the physical extensions—machinery,

personal equipments, intangible services—which permit man to control his environment and to articulate himself into immortality. Generic to this "new and thrillingly immunized LIFE unfolding in fulfillment of age-old dreams of freedom and growth" is the inevitable development of a universal shelter service with its mass-produced scientific dwelling-machines—the Dymaxion, Q. E. D.

Such, in brief, is the Dymaxion philosophy. In setting it forth, Fuller (or rather, his phantom captain) mounts the soapbox, comes in from outer space, discovers "Earth" and "Man", translates energy into dollarability (as moron prime-movers, he calculates, men would earn \$4.30 in a life-time of work if they were paid at the same rate as a hydro-electric generator), comes down through the ages, discovers Einstein and mathematics, span-spins from abstract thought to physical science, encounters Leonardo da Vinci (the first phantom captain to suggest the possibility of standardized mass-production houses), zooms across to America (the land colonized by the longing types of humanity), glorifies the rustless alloys, commemorates Henry Ford (the phantom captain who consolidated the scientific emergence), recommends the use of stored-up gold to provide reflecting surfaces for beamed radio transmission of power, scolds the communists, condemns finance capitalism (conveniently dramatized into wicked old "Fincap", who typifies fear), announces the impending socialization of the plenitudinous categories of production, throws in the sponge for the patent system, identifies the recirculation of metals as the factor that is upsetting the economic system ("scrap is changing Fincap willy-nilly into a good boy"), views with optimism the growth of the CIO as a manifestation of industrialization, harangues the architects and the building trades for having tried to kill off the idea of industrialization, razzes the "pre-fabricators", suggests the tearing down of all buildings under 10 stories in height in New York City, specifies the requirements for a scientific dwelling service, and finally spirals off into the future to eavesdrop on Jones who is having a tête-à-tête with a charming young lady from Planet 80XK23 in trapezoidal segment 727831 of the star layer of the expanding universe.

Time and space have no limitations in this book: as an adventure story of thought, which the jacket proclaims it to be, it is likely to leave the reader dizzy with its impudent flights of fancy. Even though he may disagree most heartily with the Dymaxion philosophy, it is also likely to stimulate the reader's own imagination.

The title itself, according to Fuller, was chosen to encourage and stimulate the broadest attitude toward thought. "Simultaneously, it emphasizes the littleness of our universe from the mind viewpoint. A statistical cartoon would show that if, in imagination, all of the people of the world were to stand upon one another's shoulders, they would make nine complete chains between the earth and the moon. If it is not so far to the moon, then it is not so far to the limits,—whatever, whenever or wherever they may be. Limits are what we have feared. So much has been done to make us conscious of our infinite physical smallness, that the time has come to dare to include the complete universe in our rationalizing."

Paradoxically, however, in sweeping aside the barriers of time and space, the Dymaxion philosophy sets up its own limitations. All is predicated on the hypothesis of an expanding universe: if science should disprove this, then the theory of a purposeful inevitability of events

collapses like a pricked bubble. Nor does the ar pomorphic concept of a phantom captain guiding help matters—this is nothing but complexity squ Where do the individual phantom captains come for In an expanding universe even a phantom species have a finite beginning and a course of evolution. question is not answered.

Likewise, in rationalizing human motivations into and longing, and the identifying individuals and abstractions like of Fincap (another anthropomor specimen) with these forces, the logic leads straight choice of either black or white—with all the inbetr grays ignored. This is an over-simplification of Consider the book itself: it is black as well as w

The book abounds with blunders—nonsequiturs contradictions and plain errors of historical fact—i cusable for anyone who writes in the name of sci "Mobilata" (data) and "vitalistics" (statistics) thrown at the reader with extravagance but rarely any credit as to source. Hardly any of the precept forth for scientific design are observed: inaccuracie not reflect "precision control" nor does verbosity resent "doing the most with the least." Out of the words it is difficult to extract a clear impression on Dymaxion philosophy; always it is obscured by the sbox tirades. Surely this is not a demonstration the "segregation of functions" that makes for good design and the story of the segregation of functions that makes for good design and the segregation of segregation of the segregation of segregati

Nevertheless, all these faults can be forgiven for vista which Fuller opens into the industrial Utopia ah Here is a new architecture to be had,—with a new thrilling and fine! But how?

It is not enough to say that this Utopia is inevita. If it is possible to make predictions, it is also true th becomes increasingly possible to negate those same dictions. This is implicit in the idea of environme control, which Fuller himself identifies with the ide scientific shelter. In fact, it is entirely conceivable his book, intended to speed up industrialization, may turned into a weapon of reaction to slow down the dustrial advance.

The nearest Fuller comes to a detailed explanation how the new scientific dwelling machines are to brought into existence is the report by the young from Planet 80XK23 of what happened there: in emergency of a civil war the X-ians discovered that the mechanisms provided a relatively safer survival, therefore used them as temporary expedients but I them so much that they never returned to their "hum dumpty vanity tailored habitats of pre-war days."

It is clear by implication, however, that government subsidy is the means whereby the Dymaxion dwells are to be achieved. Here again the reader runs in fog of thought. Fuller's interpretation of the evolution of society puts the emphasis entirely on the development of technology. Advances on the economic front and the interplay with advances made along the technical from not come into consideration. Consequently, he has to the question: what kind of government will furnish a subsidy? . . . In setting up the thesis that a new are tecture will bring into existence a new society, it is necessary for Fuller, or others, to explain the economy whereby the existing society can achieve this new are tecture. Otherwise, the line of evolution is broken—ein an expanding universe.

C. THEODORE LARS

eview of New Books



DPE RE-HOUSED. By Elizabeth by. W. W. Norton & Co., Inc., York, 1938. 284 pages. 6 x9 in. over 100 illustrations, including lates. Price, \$3.50.

cre eight years of experience in clearance and rehousing work ingland, the author of this book need a research fellowship for the or of rehousing on the Continent, visited thirteen countries, but has ed her study to six of them—winners in the War, two losers, two neutrals": France, Italy, hany, Austria (Vienna), Sweden, Holland.

nis book contains very little staal material and the statistics ined are seldom comparable. It is ult, consequently, for the reader ain a clear impression of the tion as a whole. We have here, er, a series of scattered descripof specific projects in the counvisited. These, to be sure, are without value: many of the deoments described and illustrated offer useful suggestions to Amerdesigners, who, on a larger scale, begun the work of slum clearand rehousing in this country. alter Gropius has written a fore-I to the book in which he des that scattered efforts, however ant, must be integrated to be tive.

HOUSING YEARBOOK, 1938. Coleman Woodbury, Editor. National Association of Housing Officials, Chicago. 315 pages. 61/4 x 91/4 in. Price, \$3.

This Yearbook is a compilation of seventeen articles on important aspects of the housing problem—some in official and some in private positions. Some of the titles and authors are: The First Six Months of USHA by Catherine K. Bauer; FHA's Activities in 1937 by Stewart McDonald; The Federal Home Loan Bank System's Work by John H. Fahey; Housing Activities of the Farm Security Administration by Will W. Alexander; The Significance of the Greenbelt Towns by Tracy B. Augur and Walter H. Blucher; The Architect's Place in Current Housing by Alfred Kastner.

There is a directory of housing agencies. Included, too, are selected bibliographies on housing and on building codes.

THE MINOR ARCHITECTURE OF WORCESTERSHIRE. By W. M. Ingemann. John Tiranti, Ltd., London, 1938. $61/2 \times 123/4$ in. 48 plates. Price, 21 shillings.

ONE IN A series of photographic studies on the minor domestic architecture of England. This is the first volume to be compiled by Mr. Inge-

mann, although the General Editor, Dexter Morand, has already issued a previous volume on *Minor Architecture of Suffolk*.

The author has dealt mainly with 17th and 18th century structures of the Cotswold area. Some reference is made to the typical Avon and Severn lowland types of cottages, but for the most part this portion of Worcestershire has been covered only sparsely because of the similarity of these cottages.

The photographs cover in particular two types of domestic architecture. First, the so-called "black and white" structures of roughly-hewn timbers and whitewashed brick and, second, the well-weathered limestone structures which are so often found in this district

The plates have been assembled to furnish charming views of entire houses rather than dealing with any particular details or phases of the buildings.

WELDING HANDBOOK. Published by the American Welding Society, New York, 1938. Illustrated from line drawings, charts and photographs. 1,211 pages. $61/2 \times 91/4$ in. Price: to members of the American Welding Society, \$5.; to non-members, \$6 in U. S. A., \$6.50 elsewhere.

PRIMARILY issued for use by the metal industries, this volume—a first edition—has been developed by 90 authors. It has been prepared "to cover, first, the fundamentals of the various processes, second, the materials used and the testing methods involved, and third, the applications thereof."

DESIGN OF STEEL BUILDINGS. By Harold Dana Hauf. John Wiley & Sons, Inc., New York, Second Edition, 1938. 232 pages. Text, problems, drawings, diagrams, tables, formulae. Price, \$2.75.

A TEXTBOOK on the design of steel-framed structures in which data on structural shapes and other material have been brought up to date. First issued in 1932.

DESCRIPTIVE GEOMETRY. By Floyd A. Smutz and Randolph F. Gingrich. D. Van Nostrand Co., Inc., New York, (Continued on page 128)

Trend Notes on a Building World



Westinghouse designs a 5,000-year shelter



G. M. fries eggs on a cold stove

Design for Time-control . . .

LITTLE INTERESTED as most building designers ma in what the archeologist of 6938 may think of the ture of 1938, the "time capsule" (left), which V inghouse sunk recently on the site of its exhibit buil at the New York World's Fair has certain implicafor building design. For the "time capsule", late a series of scientific "cornerstones", is an ambit attempt to project some record of modern man 5 years into the future. And to achieve this, two th were essential: a compact collection of data on pres day science, art, and industry (mostly on microf and a truly permanent structure for "housing" information. This last became a design problen the first importance, and it is significant that West house engineers were forced to abandon the nat materials to which the average building designer w have turned in such cases. Instead, they used a metal—Cupaloy*—for the outer capsule, a new h resistant glass for the inner one, glass tape for pack and an atmosphere of inert gas instead of air. could they, in this particular "building type", rely t methods of production ordinarily used in the build field. The alloy had to be produced and the cap fabricated under controlled conditions with preci instruments. . . . Scarce though commissions for bu ings to last 5,000 years may be, the architect may keep an eye on such "stunts" as these, for time-cor is of increasing importance in building design.

*Recipe for cupaloy: Melt the copper, then deoxidize it with boron. hardening briquettes of copper-chromium, mix in a "pinch" of silve stir well while metal heats in a crucible to 2500° Fahrenheit. Ca a mold and machine. Result is an alloy hard as steel which—tsteel—receives deposits instead of being eaten away by corre

Heat without hotness . . .

Another tour de force from the publicity world to be ignored by the building field was General Mo "Parade of Progress"—a national auto caravan to v up interest in G-M's exhibit at the Fair. Carried length and breadth of the land (in eight streamli transport trucks already described in AR, 4/36, p. 3 were a series of demonstrations of recent development from G-M's research laboratories. Of immediate terest to the building designer was a "cold sto (lower left) on which eggs could be fried, water boi without scorching an interposed newspaper. Se of this apparent contradition was a new induc furnace which, by magnetism, creates enough "mo ular friction" in the pan to heat it. Although Gpromotion men eagerly pointed out that it also "flas sparks and makes aluminum rings jump into the a building designers with new problems on their ha might do worse than to follow such developments.

(Additional Trend Notes on page 87)

urrent Trends of Building Costs

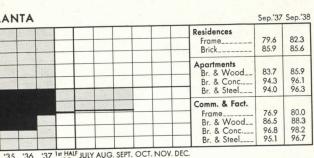
npiled by Clyde Shute, Manager, Statistical and Research Division, F. W. Dodge poration, from data collected by E. H. Boeckh & Associates,

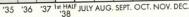
RVES INDICATE control trends in combined material and labor costs he field of residential frame conaction, the monthly curves being extension of the local cost avers during the years 1935, 1936, and 7. The base line, 100, represents U. S. average for 1926-1929.

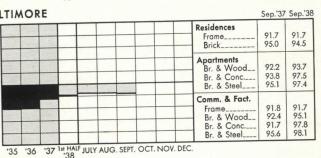
Tabular information gives cost index numbers relative to the 100 base for 9 common classes of construction, thus showing relative differences as to construction types for this year and last.

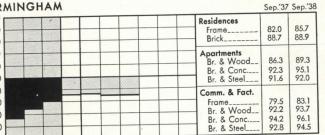
Cost comparisons or percentages involving two localities can easily be found by dividing one of the index numbers into the difference between the two. For example: if index A is 110 and index B, 95, (110-95):-95 =.16. Thus costs in A are 16% higher than in B. Also costs in B are approximately 14% lower than in A: $(110-95) \div 110 = .14.$

INSTRUCTION COST INDEX U. S. average, including materials and labor, for 1926-1929 equals 100.

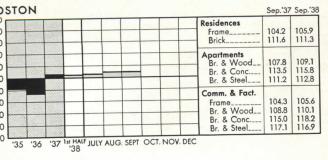


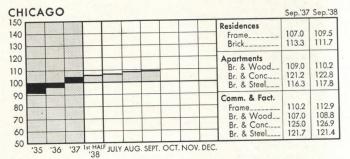


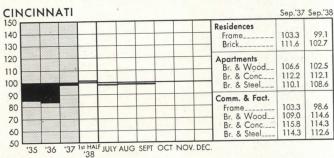


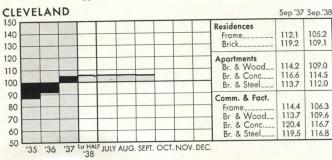


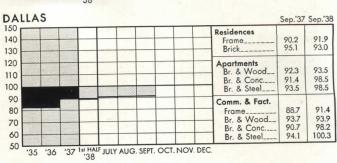
'35 '36 '37 1st HALF JULY AUG. SEPT OCT. NOV DEC.

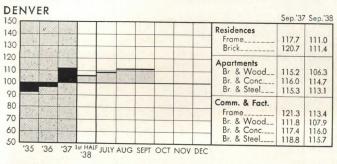


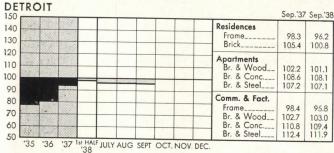


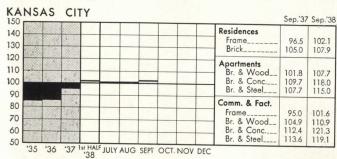


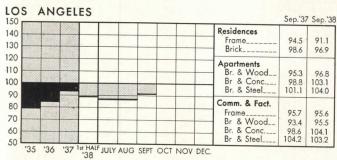


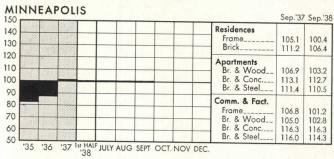


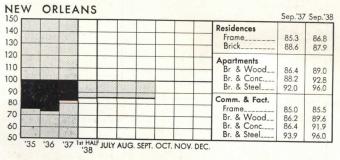


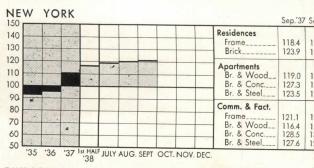


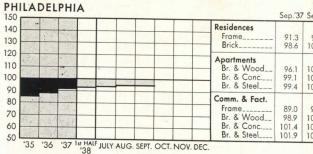


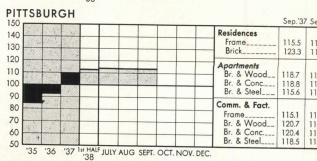


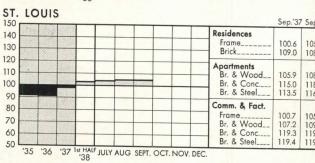


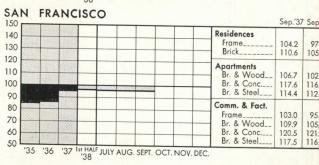


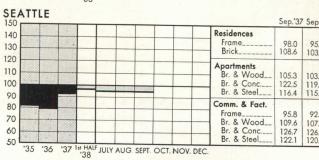












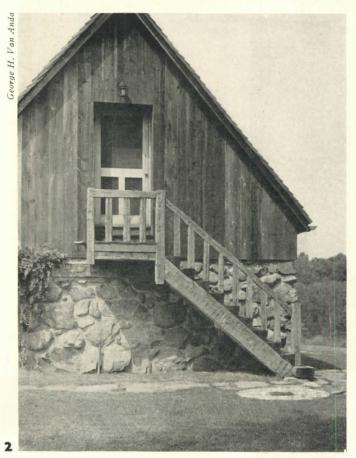


way to residence, Beverly Hills, California, designed by Gordon B. Kaufman

OUTDOOR STAIRWAYS





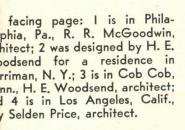




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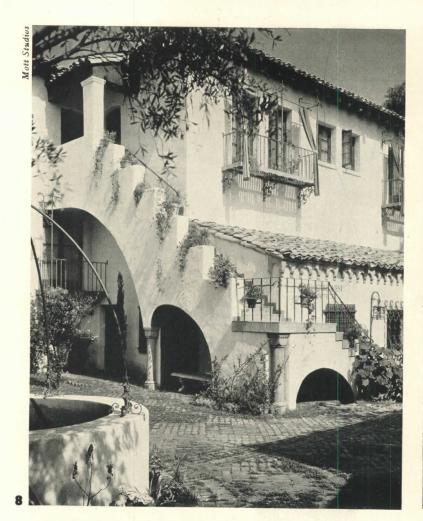






this page: 5 is a covered stairy at Lake Sunapee, N. H., igned by Prentice Sanger. 6, Mamoroneck, N. Y., is the work James Bevan; and 7 is at eenwich, Conn., H. E. Woodd, architect.











DESIGN TRENDS





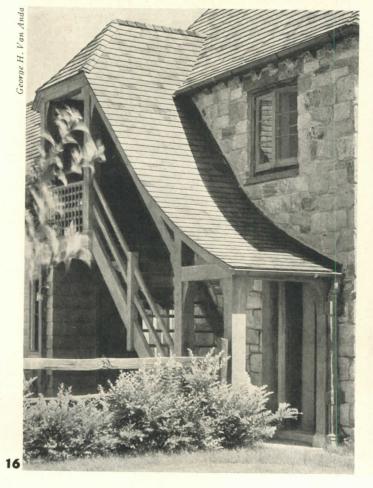


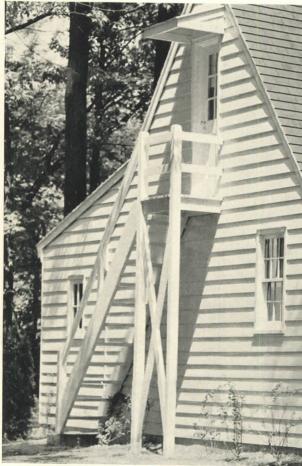
facing page: 8 is a stairway at lywood, Calif., designed by Carl ss Weyle; 9 is at San Antonio, as; 10 is in Palm Springs, Calif., architect; and 11, desided by John Byers, is in Hollydd, Calif.

this page: 12 is at Beverly Hills, if., of which George Washington th was the architect; 13 is at East-opton, Long Island, and was dened by Robert Tappan; and 14 is Beverly Hills, Calif., Roy Seldon te, architect.









DESIGN TRENDS







acing page: 15 is in Brentwood hts, Calif., John Byers, architect; t Greens Farms, Conn., was ded by Walter Bradnee Kirby; in Richmond, Va., Duncan Lee, tect; and 18 is in Wychwood, , Ray O. Peck, architect.

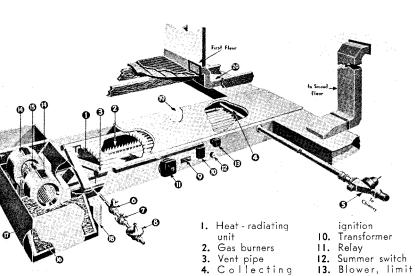
his page: 19 is in New York Lawrence Peck, architect; 20 is erkeley, Calif., William Wilson ter, architect; and 21 was ded by Eugene Schoen and Sons house in Washington, D. C.







22 is a spiral stairway on roof of a villa at Savoye-Seine, France, designed Le Corbusier and Jeanne 23, also designed by Le Cousier and Jeanneret, is Paris, France. 24 is anot spiral stairway for a reside at New Hartford, Cor Howe and Lescaze, archite



header 5. Draft blower

and motor

valve

Automatic gas

Main gas valve

Pressure regula-

9. Electrodes for

rnace hung from eiling . . .

OUGH THE DEVELOPMENT of g equipment has forged steadily in recent years, so that by conrefinement the stove of yesteras become the complex heating ne of today, it remained for naire, Inc. (3255 Goldner Ave., it) to dramatize the morphology e lowly stove. Introduced last n was their gas-fired Overhead naire (above). Dropping even utward form of a furnace nich gas-fired units as a rule stubbornly clung—Gasconaire is d a horizontal organization of ments required to automatically heat, humidify, and circulate r. Suspended from the basement g, the lightweight factory-built enclosed in their own insulated s constitute—as the manufacproudly state—the first furnace can walk under". . . . Also with e to the value of basement space e new gas-fired winter air-coners announced by Surface Comn Corporation (Toledo, O.). ned for the low cost housing new models conform to all ications of SCC's Janitrol line. emphasis, however, is laid on -saving qualities: vertical model only $22'' \times 25\frac{1}{2}''$ floor area, horizontal one is only 52" high. . . . Even the fireplace refuses to be obsoleted: latest addition to this field is Majestic Company's (Huntington, Ind.) new circulating fireplace. This prefabricated unit of electrically welded 3/16" steel plate will sell at prices low enough to put it within range of the low-cost home.

control Double blower

Filters

lation

15. Blower motor

17. Blower housing

18. Blower control

20. Take-off pipes

19. Air - cell insula-

14.

16.

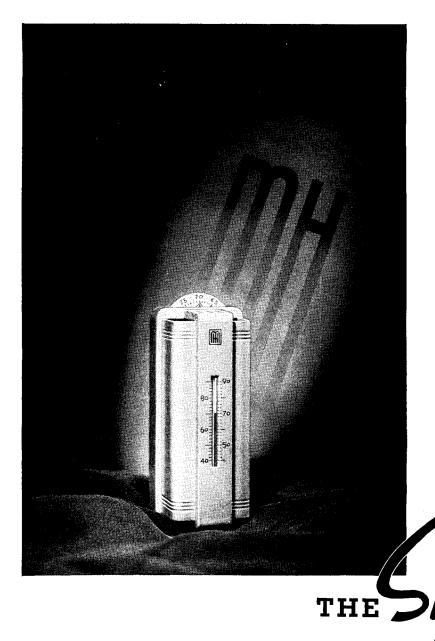
Claimed by Herman Nelson Corporation (Moline, Ill.) for its new propeller-fan type unit heater are all the advantages of the hiJet line plus larger face area, quieter and smoother operation, increased efficiency. Entire heating element is one-piece brass, eliminating weakened construction due to contraction and expansion. . . . Link-Belt Company (Chicago) has out a new model commercial stoker which can handle up to 3,500 sq. ft. radiation. Increased efficiency is claimed for Power - Flex burning head, which burns both low-fusion, non-caking bituminous and highfusion caking coals. . . . Carrier Corporation (Syracuse, N. Y.) has announced a moderate-cost room ventilator which filters, circulates and mixes outside and inside air. Coming in two sizes, ventilator fits any window, requires only an electric plug.

Temperature control checks corrosion

HAVING ALREADY DRAFTED her hot springs to heat her greenhouses and warm her swimmers, Reykjavikcapital of tiny, frigid Iceland—has now laid plans for harnessing more of the natural hot water. Recently drawn plans call for a system adequate to heat half the dwelling units of the capital city at the start. . . . But hot water, however heated, is destructive to the water supply system. Engineers, estimating that corrosion activity doubles with every 10° rise in temperature, have evolved such methods of combating corrosion as the electrolytic process described in AR, 8/38, p. 57. Another method of at least checking the effects of corrosion has recently been perfected by Anthracite Industries, Inc. (New York City), the use of a water temperature regulator. Said AII engineers: hot-water systems unequipped with automatic regulation undergo alternate increases and decreases of temperature. The consequent surges of circulation stir up rust. A simple, inexpensive regulator now available permits water to heat at a steady rate, precipitate rust.

Paints that "blush" and smell . . .

RECENT DEVELOPMENTS in finishing and surfacing materials indicate many potentialities for the future. Already reported are paints that extinguish fires (AR,11/37,p.37): but now, according to Nation's Business, we are to see paints that get so excited in the face of rising temperatures that they change their colors! A series, designed to register temperatures from 104° to 464° F., is shortly to be marketed. Some of the colors are retroactive, some change permanently. . . . From National Painters comes word of the immediate practicability of both deodorized and reodorized paints. A commercial deodorizer is already available which, when mixed with paint, effectively kills its characteristic odor. Moreover, according to NP, it is now possible to reodorize (Continued on page 132)



THE NEW AUTOMATIC HEATIN

Recent improvements have revolutionized automatic heating. The Symbol of these improvements and of the seldom seen control system that actually makes Automatic Heating automatic is the smartly styled Acratherm. More than a thermostat, the Acratherm embodies the exclusive "M-H" Principle of Heat Accel-

eration. The new Automatic Heat equipment, with the new Minneap Honeywell Controls, will bring you of free winter comfort. Though they more than ordinary controls, a dealers supply them as standard, of but slight extra cost. Look for the "I Symbol. It means you are getting the

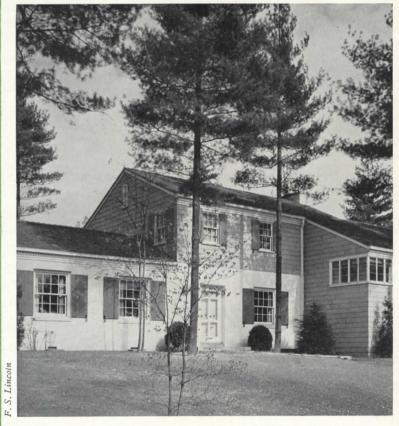
The above advertising message will be carried to millions of readers through the pages of The SATURDAY EVENING POST and TIME Magazine . . . Minneapolis-Honeywell controls will lend prestige to every job.

MINNEAPOLIS-HONEYWEL

BROWN INDUSTRIAL INSTRUMENTS NATIONAL PNEUMATIC CONTROLS MINNEAPOLIS - HONEYWELL REGULATOR COMPANY...MINNEAPOLIS, MINNESOTA

Control System

BUILDING TYPES



HOUSES....\$15,000-\$25,000

FORTHCOMING 1938 STUDIES: Houses (\$25,000 and up) — November; Office Buildings — December. PRECEDING 1938 STUDIES. Apartments — September; Hospitals — August; Theatres — July; Factories — June; Schools — May; Houses (\$7,500-\$15,000) — April; Houses (\$7,500 and under) — March; Retail Stores — February; Hotels — January.



The \$15,000-to-\$25,000 House

This is the third of four studies on residences to be presented in the RECORD during 1938. In March the small one-family house, costing not over \$7,500 was presented; and in April, houses ranging in price from \$7,500 to \$15,000. Next month, Building Types will be devoted to residences above the \$25,000 limit.

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—Gutters	
-Subsurface, walks and	
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Smith house, New Canaan, Conn	

SINCE EVERY house design is based on human requirements specification for family living—a designer selects materials equipment and evolves a form, within necessary limits of spand cost, to meet the specification. Variations such as cost size do not materially change the fundamental problem nor method by which it is finally solved; though either factor or I may complicate it.

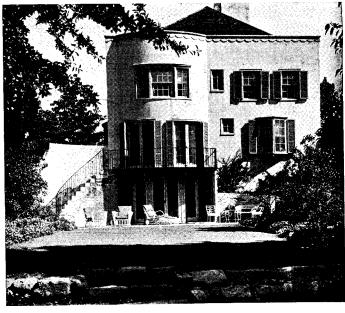
Because cost is so generally recognized as a broad classifica of types, it has been used to designate the four parts of Record's 1938 studies on homes. The survey of \$7,500 hor published in April, revealed that the small individually desig house is, apart from surface appearance, largely a standard type. Judging from designs submitted to the Record this stand is acceptable to many owners who pay twice or three times amount for their houses.

Where minima govern sizes, number and arrangement of spand equipment of the small one-family house, larger houses, ming the same fundamental specifications, provide greater a more spaces often more comfortably arranged, and more equent designed to lessen the labor of housekeeping. Within limitations imposed by a \$25,000 top, such expansion seldom to place in all directions simultaneously.

Some of the types of expansion noted in the houses sele for study in the following pages include: increased dimensions added living areas such as "quiet" rooms, hobby or playroc bars, gardens, terraces, and other outdoor living areas. Expan in equipment or utilitarian spaces may include: built-in furnit more completely engineered and equipped heating or air-condit ing systems, more expensive plumbing fixtures, tailor-made rad and the like. A garage, usually for two cars, is an almost a versal adjunct.

Time-Saver Standards based upon minimum clearances and mensions of commonly used furniture, and equipment and requirements for service systems, have been presented in earlier study. Time-Saver Standards in this study are devoted to fundame outdoor design problems.





At left, garden terrace, house of Frank Beetson, Flintridge, Calif.; Marston & Maybury, architects. Above, terrace, house of William H. Baldwin, New Canaan, Conn.; Cameron Clark,

utdoor Living Areas

LOPMENT OF outdoor areas for g purposes requires as much as do those within-doors. The npanying checklist is intended call to the designer purposes to rved in providing such outdoor . The list may be reorganized, ed or amplified at will.

is recognized that many schemes be evolved for a given plot, each actory in that it fulfills a set equirements. Therefore precise and recommendations are not n the scope of this study.

areas

narrow definition of outdoor g areas eliminates all but those itely planned for dining, relaxplaying, entertaining, reading, Placement of such areas in ren to the house is a matter for in reference to: ease of access indoors; convenience for serv-In relation to outdoor factors, following are important: placefor sun, shade, summer breezes; ee of privacy desired; utilization easant outlook; circulation. Deing on the importance assigned ne preceding factors, house and scape design may be modified to come or enhance existing natural itions.

In planning, constructing, and equipping outdoor living areas, the following are important: sizes, dimensions, and clearances adequate to contain furniture, equipment, and persons using them; foundation, structure, and surfacing of areas to suit their purpose; and furniture and equipment for lighting, shade, radio, water supply, and similar services.

Time-Saver Standards on the following pages present methods of constructing common outdoor units. Data have been assembled from material compiled by A. D. Taylor, Landscape Architect, President, American Society of Landscape Architects. All information reflects common practise.

Bibliography

Art of Home Landscape, by M. E. Bottomley. A. T. De La Mare, New York. 1935. 239 pages, illus.

Design of Small Properties, by M. E. Bottomley. Macmillan Co., New York. 1926. 233 pages, illus.

The Garden Handbook, by Mary Rutherford Jay. Harper & Bro., New York, 1931, 284 pages, illus.

Landscaping the Home Grounds, by Leonidas W. Ramsey. Macmillan Co., New York. 1930. 169 pages, illus.

Landscape Garden Series, edited by Ralph Rodney Root. The Garden Press, Davenport, Ia. 1921. 10 vols., 400 pages, illus.

CHECKLIST for OUTDOOR AREAS

TYPES OF AREAS

Public areas

architect.

Lawn, planting area, entrance drive, etc., facing on public highway

Utility areas

Service court; service entry; drying yard; refuse disposal area; garage; kitchen or vegetable garden; children's play area; tool and equipment storage space

Living areas

Porch—living or dining; terrace—living or dining; seclusion area; cooking areadoor fireplace, grill, barbeque; sunbathing area—deck, garden, etc.; exercise area; hobby area; game area, court; pleasure garden; pool—fish, lily, reflecting, swim-ming; court, patio; lawn; garden house; arbor, trellis

BOUNDARIES, CIRCULATION

Walls, fences

Retaining: boundary; ornamental

Walkways

Entrance; service; garden

Entrance drive; service drive; private road; bridle path

SERVICE SYSTEMS

Water supply

Lawns; planting areas; gardens—vegetable and pleasure; pools—fish, lily, reflection, swimming; service, as car-washing, etc.; garden structures, outbuildings, etc.; hobby areas

Drainage

Subsurface; surface; garden structures, outbuildings, pools, etc.

Lighting and power

outbuildings, hobby Entrances; garages, areas; roadways, walkways; garden and

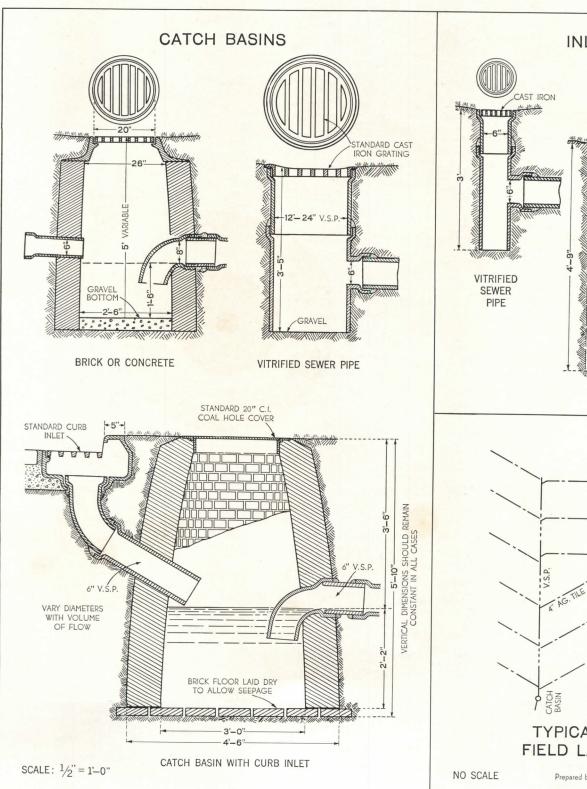
OUTDOOR AREAS -

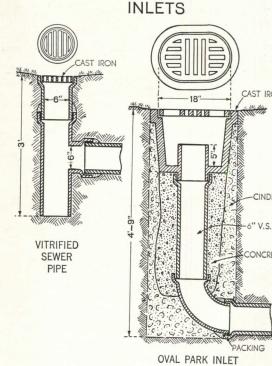
DRAINAGE DETAILS

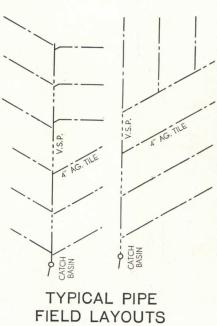
Information contained in the notes and drawings on this and the following three pages is based on common practice. However, other methods than those illustrated will often prove entirely satisfactory; the data are intended to serve as guides in developing solutions to

individual problems.

In some cases data may be adapted to other tures than those expressly indicated. Walkway s ing, for instance, is similar to terrace s ing.

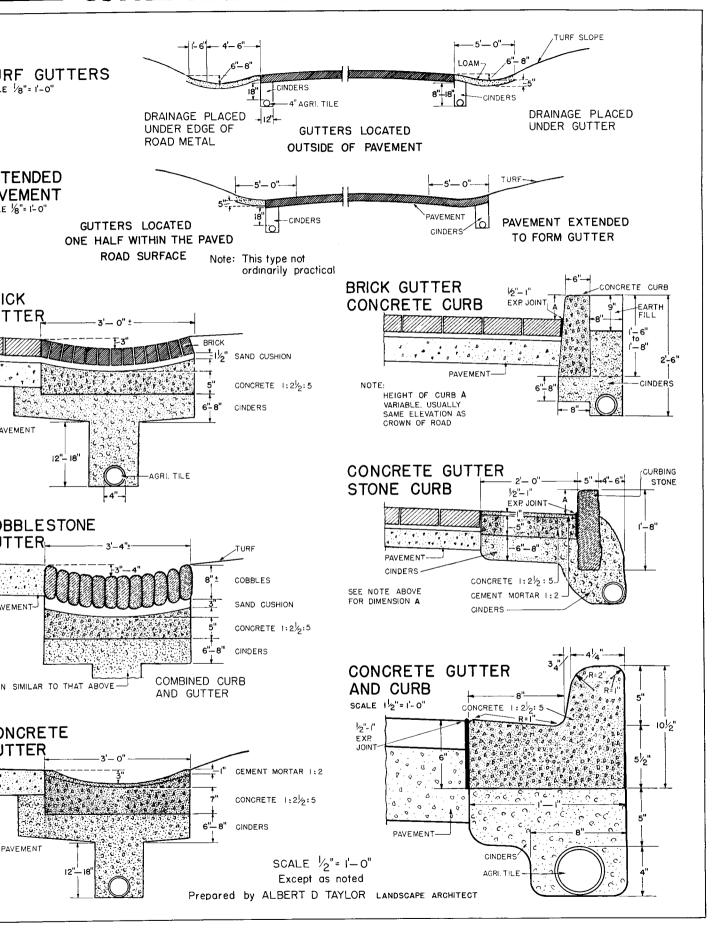






Prepared by A. D. TAYLOR LANDSCAPE ARCHITE

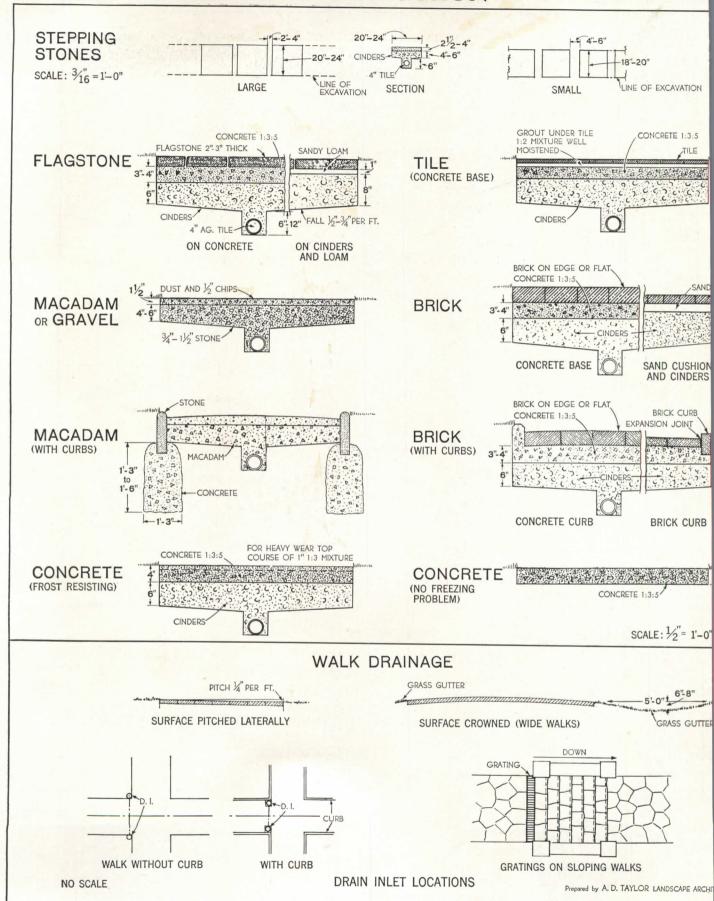
GUTTER AND CURB CONSTRUCTION



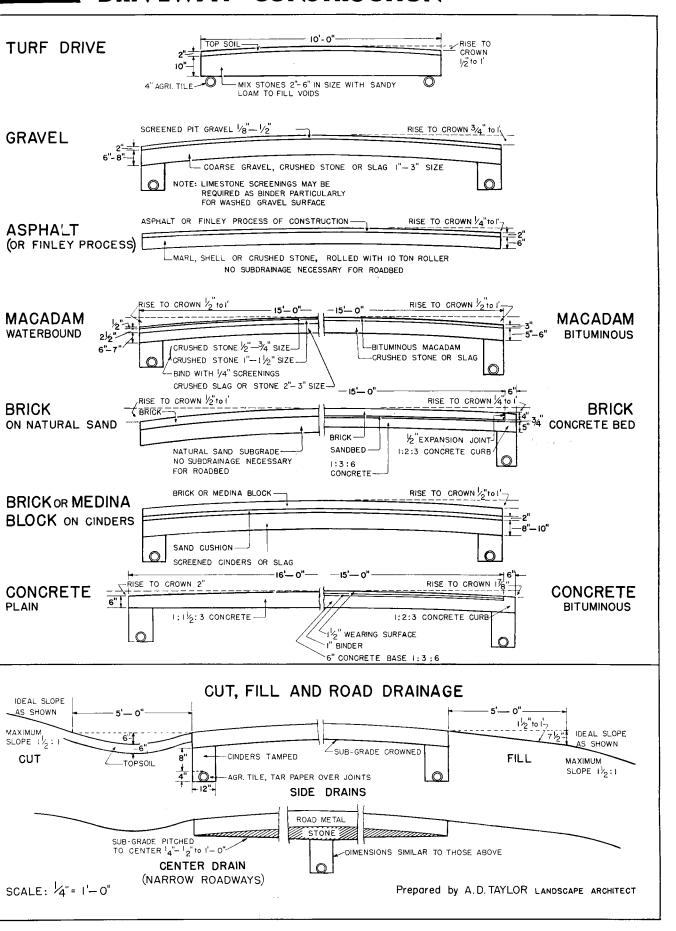
TIME SAVER STANDARDS

OUTDOOR AREAS-

WALKWAY CONSTRUCTION



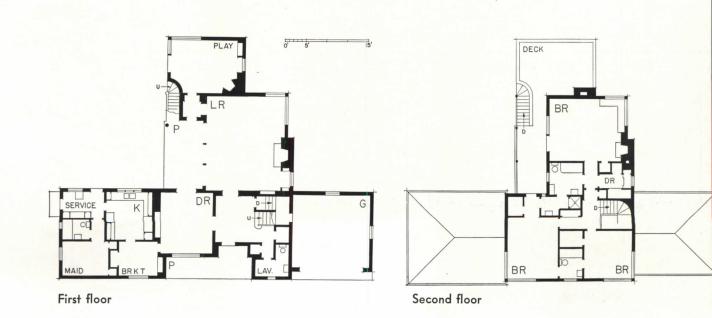
DRIVEWAY CONSTRUCTION





House for Chester Lincoln, SAN MARINO, CALIFORNIA

H. ROY KELL Archite







Above, the patio, equipped for outdoor living and dining. At left, stairhall looking through the living room to the porch. An outdoor stair leads directly from the second floor balcony to the patio.

MATERIALS AND EQUIPMENT

FOUNDATION

Concrete

Walls: Cement stucco, brick veneer

over wood studs

Roof: Red cedar shingles Insulation: Celotex lath, Celotex

Corp.
Sash: Steel casements

Walls: Wood studs and gypsum plaster; living room walls and trim,

Philippine mahogany

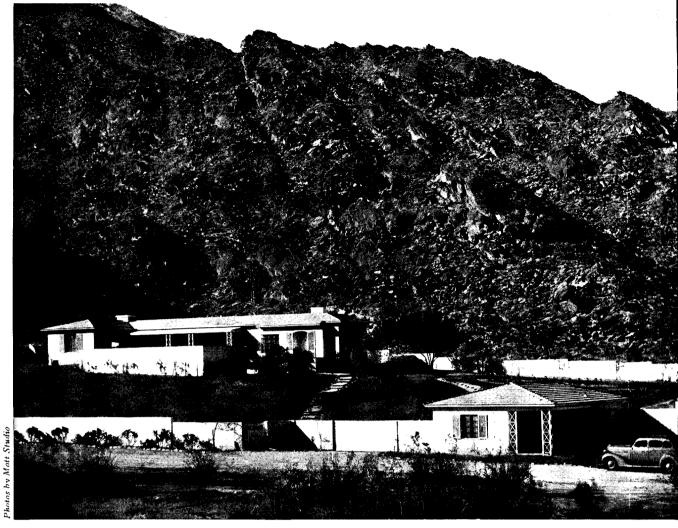
Floors: Oak Trim: White pine painted

EQUIPMENT

Heating: Hot-air furnaces
Plumbing: Fixtures, Standard Sanitary
Mfg. Co.; galvanized steel pipes
Electrical installation: Conduit and

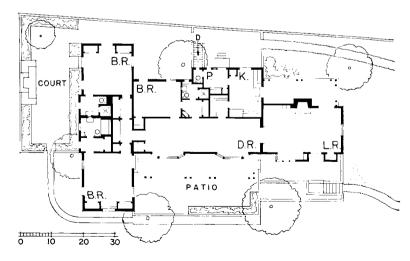
safecote wire

Actual cost, 36c per cubic foot. Architect estimates present cost at 42-44c



House for J. E. French, PALM SPRINGS, CALIFORNIA

CHARLES O. MATCHA **Archite**



First floor and partial plot plan

MATERIALS AND EQUIPMENT

FOUNDATION

Concrete

STRUCTURE

Wood frame

EXTERIOR

Walls: Garden, hollow cement tile, Palm Springs Build Supply Co.
Roof: Tile, Gladding, McBean & Co.
Sash: Steel, Truscon Steel Co.; awnings, wood louvr
Shutter Awning Co.

Insulation: Coast Insulating Co.

Doors: Garage, Overhead Door Co. of Southern C

INTERIOR

Walls: Plaster board lath, U. S. Gypsum Company; the Pomona Tile Co.; vertical boards in living room Ceilings: Exposed rafters, plaster between, in living rooplaster elsewhere

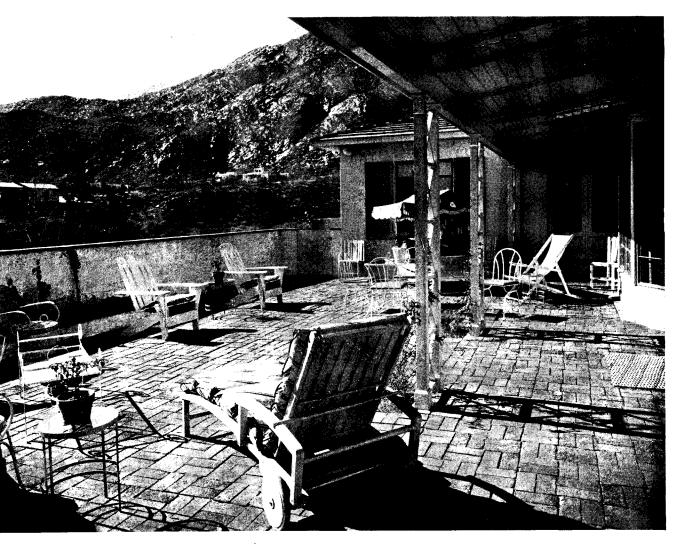
EQUIPMENT

Heating and ventilating: Gas, forced air, Payne Furnace Supply Co.; gas hot water heater, General Wa Heater Co.

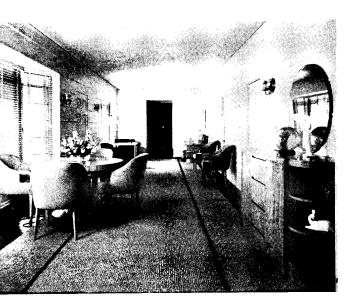
Plumbing: Fixtures, Standard Sanitary Mfg. Co. Glass: Carrara, Pittsburgh Plate Glass Co. Electrical installation: Lighting fixtures, Solar Light

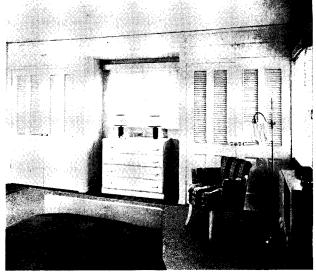
Fixture Co. Linoleum: Armstrong Cork Co.

Cost, including garden walls, garage and servants' quarters over garage: \$18,000



arage seen in photo on opposite page also contains vants' quarters. Above, patio; below, left, dining bay; ht, bedroom interior.

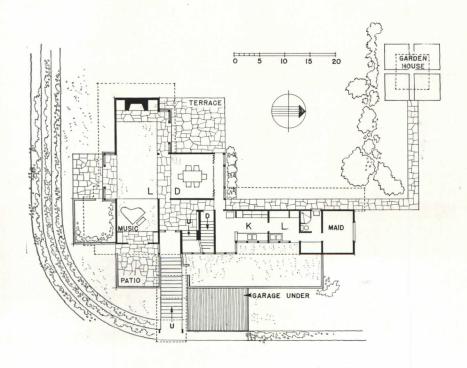






House for Miss Helene Kershner, LOS ANGELES, CAL.

HARWELL HAMILTON HARR
Design

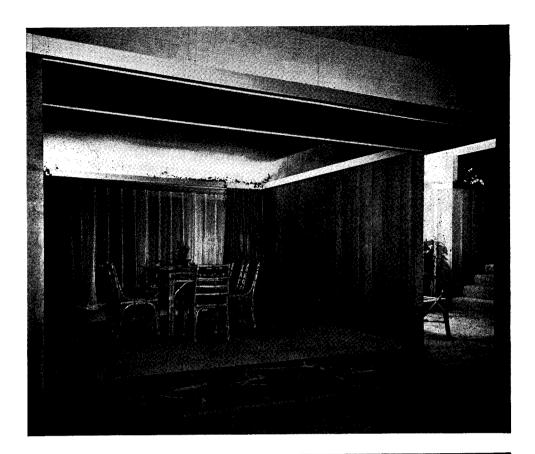


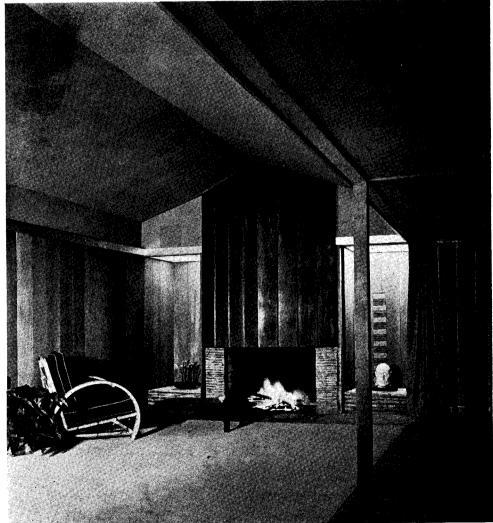
THE LARGE WINDOWS shown in plan, and the tof flagstone within doors, serve to tie the hot to the surroundings. Yet privacy from the hig way is maintained, as can be seen above. Thouse crowns a hilltop; the living room's sot bay overlooks a wide valley. The "garden house contains guest accommodations, and is seclud behind planting.



At left, first floor and plot plan; above, second floor plan

TYPES

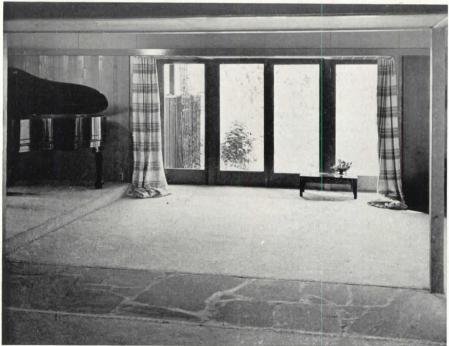




anged ceiling levels and nges from carpet to flagne on the floor divide the ces, rather than partitions. te the use of cove lighting the dining area (top). At nt, fireplace end of the peral living space.

KERSHNER HOUSE, LOS ANGELES





Top: the music room also serves as a stage. Its floor is slightly raised; the French door drapes can be drawn, or the doors opened so that the patio beyond forms the setting. Photo below also shows the south living room bay.

MATERIALS AND EQUIPMENT

FOUNDATION

Concrete

EXTERIOR

Walls: 12" redwood vertical boards and bat-

Roof: Redwood shingles 41/2" to the weather Insulation: Celotex Corporation

Sash: Outswinging wood casement

INTERIOR

Walls: 10" T. & G. vertical redwood board walls, natural finish

Ceilings: "Celotex", Celotex Corporation.

Floors: 4" T. & G. Douglas fir

EQUIPMENT

Heating and air conditioning: "Thermador" electric radiant and convection heaters; "Thermador" electric water heater, Thermador Electrical Mfg. Co.

Plumbing: Pipes, galvanized iron; fixtures, Standard Sanitary Mfg. Co.

Kitchen: Refrigerator; electric range; water softener; washing machine; ironer Electrical installation; Custom built radio and

Electrical installation: Custom built radio and record playing system; lighting, integral re-flector troughs and panels

Cost, including guest cottage, planting, etc., \$15,000



use for L. W. Ross, SEATTLE, WASHINGTON

SMITH, CARROLL and JOHANSON **Architects**

A SLOPING LOT, all living areas are here ated on the top floor, most of the basent being used for recreation areas.

TERIALS AND EQUIPMENT

INDATION

RIOR

ss: Beveled 3/4" x 10" cedar siding f: 16" Certigrade cedar shingles left natural ation: Celotex lath on ceilings, Celotex Corpora-

: Wood

RIOR

s: Blue Diamond plaster on wood lath and studs rs: Oak in living portion; tile in bath; linoleum tchen, Armstrong Cork Products Co.
h: Fir, painted

IPMENT

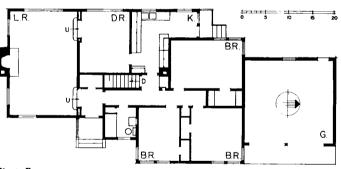
ting and air conditioning: Rossoe

bing: Pipe, galvanized iron: fixtures, Standard tary Mfg. Co.

nen: Range; refrigerator; provision for dish-

ellaneous: Illumination of grounds; firehose for

rgency use ting and wiring: Knob and tube system Cost: 29c per cubic foot



First floor

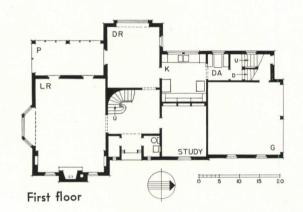


Basement



House for J. O. Heppes, HINSDALE, ILLINOIS

CHILDS and SMI Archite





MATERIALS AND EQUIPMENT

FOUNDATION

Plain concrete

STRUCTURE

Wood studs and wood roof framing

EXTERIOR

Walls: Wide wood siding and common brick veneer, first floor

Sash: Wood

Roof: Asphalt shingles

Insulation: Exterior walls and roof, wool batts, U. S. Gypsum Co.

Painting: Wood siding and frames, three coats lead and oil paint; common brick,

first floor and chimneys, three Bondex, The Reardon Co.

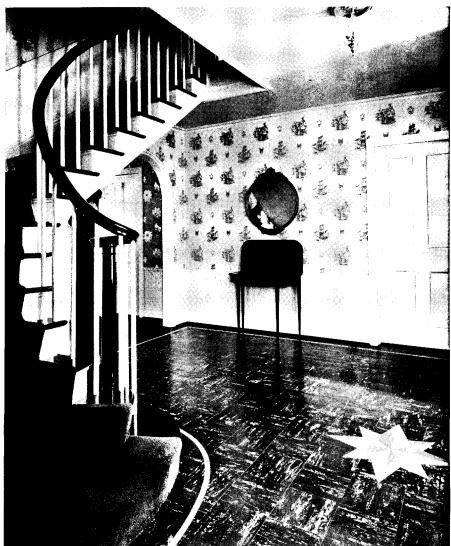
INTERIOR

Floors: First floor hall, dining re kitchen, dining alcove, rear entry, tory, bath rooms, children's playro asphalt tile, The Tile-Tex Co.; o

asphalt file, the tile-lex Co.; of floors, straight-sawed red oak Walls: Kitchen, lavatory, bath ro asphalt wall tile, The Tile-Tex Co.; st Nu-Wood, Wood Conversion Co., owalls, smooth plaster.

Trim: enameled wood; study, stra sawed white oak finished with two of Minwax, The Minwax Co.





, above, dining room; below, all.

g: Walls and ceilings, three coats nd oil paint: walls of living room, lining room and bedrooms, pa-walls and ceilings of kitchen, om and lavatory above wainscot, led.

g: Oil-fired warm-air furnace with duct system, General Electric any.

ng: Fixtures, Kohler Co.

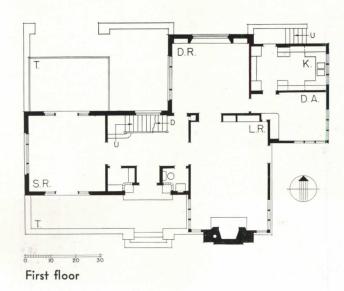
cal Installation: Wiring and fix-Cox Electric Co.

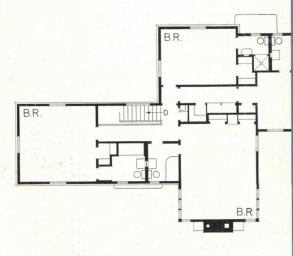
are: Sargent & Company



House for Mrs. Fred J. Reynolds, GLENCOE, ILLINOIS

PERKINS, WHEELER and W Archit





Second floor



At left, living terrace in the corner between dining and sun rooms; the screened porch awning roof is supported by the screen frames. Left, below, dining room.



MATERIALS AND EQUIPMENT

FOUNDATION

Continuous concrete walls and footings; waterproofing, A. C. Horn Co.

STRUCTURE

Wood frame

EXTERIOR

Walls: Hard burned select common

Walls: Hard burned select common brick; I"x8" cypress
Roof: Red cedar shingles, 5" to weather; Y. P. sheathing spaced 2"; flashing, gutters and leaders, 26 ga. "Toncan", Republic Steel Corp.
Sash: Wood double hung and casement

Doors: White pine; garage, lift type, McKee Door Co.

Insulation: Exterior walls, knee walls and roof, $3\frac{1}{2}$ " batts, U. S. Gypsum Co. Painting: Lead and oil

INTERIOR

Walls: 3/8" Rocklath, 3 coats gypsum plaster; painted and papered

Floors: Living room, bedrooms and halls, 25/32" clear red oak; kitchen, edge grain fir; baths, ceramic tile, baths I and 2, edge grain fir, bath 4 and lavatory; porches, concrete; kitchen, bath 4 and lavatory, linoleum, Armstrong Cork Products Co.

Trim: White maple in principal first floor rooms, poplar elsewhere; doors, "Rezo" stock maple and birch, Paine Lumber Co. Painting: Walls, lead and oil; kitchen and

baths, enamel; ceilings, kalsomine; floor, stained and varnished; trim (maple). clear lacquer, (poplar), flat paint

EQUIPMENT

Heating and air conditioning: Forced warm air filtered, oil fired system, Herman Nelson Corp.; hot water heater, Williams Oil-O-Matic Heating Corp.; thermostat, Minneapolis-Honeywell Regulator Co.

Plumbing: Fixtures, Kohler Co.; supply pipes, galvanized steel; sump pump in basement, Chicago Pump Co.

Weatherstripping: Doors and windows, Chamberlain metal weatherstrips

Glass: Pittsburgh Plate Glass Co.; glass brick, Owens-Illinois Glass Co. Hardware: Solid brass, Yale and Towne

Manufacturing Co.

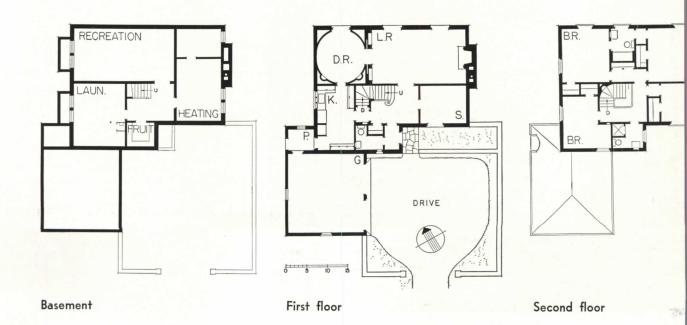
Electrical Installation: Rigid conduit wiring system; switches, Pass & Seymour, Inc.; fixtures, Walter G. Warren & Co.

> Cost including fees, excluding land, landscaping, furnishings: \$24,300



House for Dr. H. A. Jarre, GROSSE POINTE FARMS, MICH.

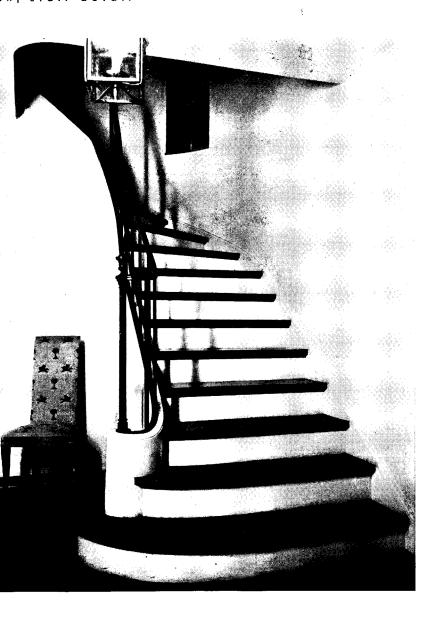
HEWLETT and LUCKENBA



BUILDING TYPES



e, living room interior ow, stair detail



MATERIALS AND EQUIPMENT

FOUNDATION

Concrete block

STRUCTURE

Wood frame

EXTERIOR

Walls: Brick veneer

Roof: Wood shingle: "Toncan" sheet metal, Republic Steel Co.

Insulation: Side walls and second floor

ceiling, rock wool, Johns Manville Sash: Wood casement and copper

screens

Painting: Exterior masonry, Medusa cement paint, Medusa Portland Cement

Co.

INTERIOR

Floors: Oak strip finish; main hall, black asphalt tile; master bedroom, oak block; stair treads and nosings, sheet rubber;

kitchen, linoleum

Painting: Main hall, light gray; study, turquoise blue; ceiling, off-white; kitchen walls, light gray, yellow ceiling; black floor in dining room. Pittsburgh "Wall-hide" for interior undercoat, Pittsburgh Plate Glass Co.; "Ripolin" enamel, The Glidden Company; "Minwax" floor finish, Minwax Co., Inc.

EQUIPMENT

Heating: Air circulation, humidification, Gilbarco Air-Conditioning, Gilbert & Barker Mfg. Co.

Waterproofing: Asphaltic, exterior base-

ment wall

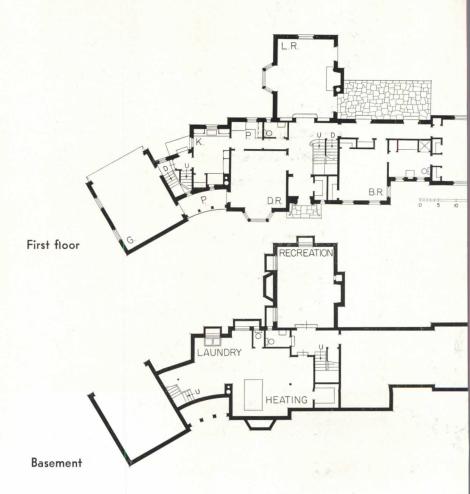
Hardware: Dull chrome

Cost, house only: 37c per cu. ft.



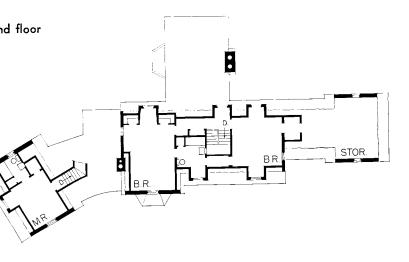
House for Albert J. Scheu, ST. LOUIS COUNTY, MISSOURI

GRAY and PAU Archit





room interior



FOUNDATION

Concrete walls

STRUCTURE

Reinforced concrete slab over entire first floor and garage; frame and veneer walls; wood roof

EXTERIOR

Walls: Brick, Hydraulic Press Brick Co.

Roof: Slate, weathering green; 16-oz. cold rolled copper sheet metal work

Insulation: Gimco rock wool batts, General Insulation & Manufacturing Co.
Painting: "Creo-Dipt" white brick paint, Creo-Dipt

Co., Inc.

INTERIOR

Floors: Random width oak flooring on first floor; second floor, oak strip flooring. First floor, Wood Mosaic Co.; baths and lavatory, National Tile Co.

Partitions: Wood with metal lath and plaster.
Lath, Northwestern Expanded Metal Lath Co.;
plaster, Acme Certainteed Products Co.
Doors: Overhead garage doors, McKee Door Co.

EQUIPMENT

Heating: AFCO warm-air system with Century oil burner, American Furnace Co.; hot-water heater,

Williams Oil-O-Matic Corp.
Weatherstripping: Monarch Weatherstrip Co.
Plumbing: Fixtures, Standard Sanitary Mfg. Co.

Cost, including fees: 41.9c per cubic foot

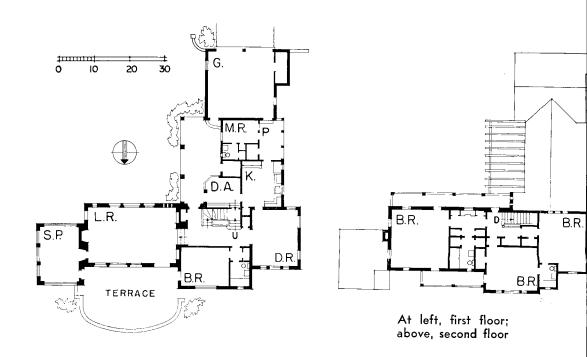


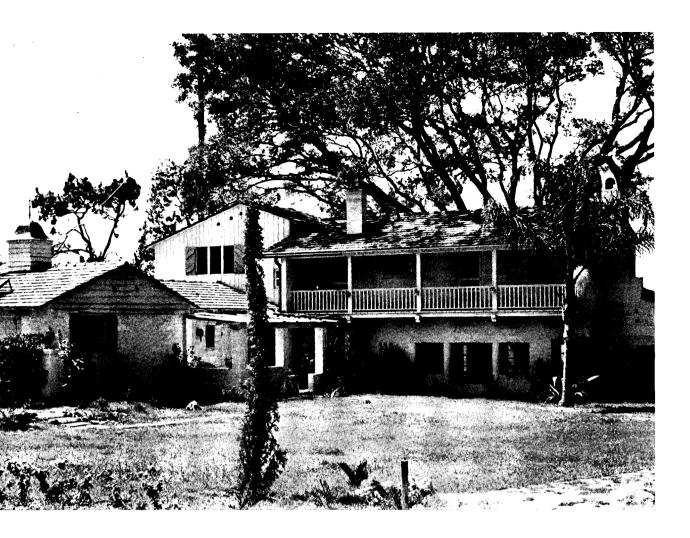
House for Hugh Akerman, ORLANDO, FLORIDA

MAURICE E. KRES Archi

This house lies between the road and Spring Lake; hence the principal living areas open toward the water view. Concrete block walls are exposed, indoors and out, and are

painted. The color scheme is strash being blue inside and out; white; roof, variegated reds; and ings, formed by the exposed secfloor planking, stained red-br





facing page, lake front; above, entrance front; below, view ugh living room toward stair hall



FOUNDATION

Concrete

STRUCTURE

Concrete block and frame

Walls: Specially textured concrete block generally, 4" x 16" face showing; second

story cypress boards and battens

Sash: Metal casements, screened, Hope's

Window's Inc.
Roof: Wood frame: pastel red variegated cement tile finish, Pittman-Sipple Tile Co.

Insulation: Roof, "Celotex", Celotex Corp.

INTERIOR

Floors: On fill, 8" concrete slab; sus-

pended, wood frame
Walls: Concrete block exposed and
painted; baths, tile and plaster; remainder, plank and plaster

Ceilings: First floor, exposed beams and floor planking Stairs: Solid Y.P. logs, wrought iron rail

EQUIPMENT

Heating: Waterman Waterbury furnace; A. B. C. blower; Williams Oil-O-Matic burner; Minneapolis-Honeywell temperature controls "Solar" hot-water heater, General Electric auxiliary

Plumbing: Copper piping; fixtures, Standard Sanitary Mfg. Co. Hardware: Russell & Erwin Mfg. Co.

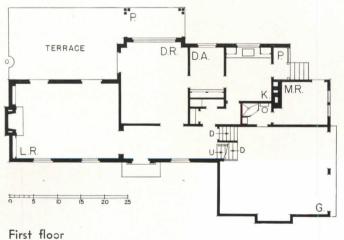
Cost, including fees: \$15,500

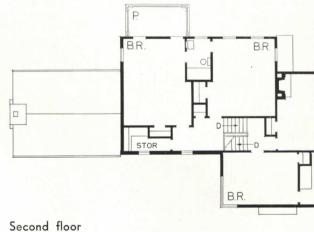


House for Miss Dorothy Greeno, BILTMORE FOREST, N. C.

HENRY IRVEN GAIN

NOTEWORTHY in these plans are the location of maid's room, with a private exterior door and acceptation through the garage directly to the front hall; and study-bedroom-bath grouping over the garage.









end of living n; at right, secfloor study

NDATION

crete footings, common brick walls

JCTURE

d frame

RIOR

s: Common brick and red cedar shingles

frame : Wood windows; metal casements, De-Steel Products Co.; screens, "Rolscreen", creen Company : Clay tile, B. Mifflin Hood Co.; copper

flashing; G. I. downspouts and gutters Insulation: Rock wool in ceiling area, Johns-Manville

Painting: Shingles, Cabot's stain, Samuel Cabot, Inc.

INTERIOR

Walls: Plaster on wood lath, U. S. Gypsum Co.

Floors: Bathrooms, kitchen and breakfast room, linoleum, Armstrong Cork Products Co.; bathroom bases and wainscots, structural glass; other floors, oak.

Trim: White pine
Painting: Trim, colored "Minwax," Minwax Co., Inc.

EQUIPMENT

Heating: Forced warm air with filters, Fox Furnace Co.; stoker, Iron Fireman Manufacturing Co.

Plumbing: Fixtures, Standard Sanitary Mfg. Co.; kitchen sink, Tracy Mfg. Co. Hardware: Russell & Erwin Mfg. Co.

Cost: \$16,000



House for Marcellus McLaughlin, GERMANTOWN, PA.

RICHARD W. MECASKI Archite

MATERIALS AND EQUIPMENT

FOUNDATION

Local stone

STRUCTURE

Local stone

EXTERIOR

Roof: Slate, variegated thickness and color Sash: Wood casement with leaded glass; built-in roll screens, Watson Screen Co. Insulation: Rock wool 2" thick on all exterior walls, 4" over third floor ceiling and garage ceiling.

Painting: Stained and oiled wood work

INTERIOR

Floors: Living room, dining room, library and hall, random width oak, screwed and plugged;

bedrooms and hall, white oak T & G, 2" Hainting: Stained and waxed walnut panelibrary and stair spandrel; all other interwoodwork painted.

EQUIPMENT

Heating and air-conditioning: Air circula and humidification, Gar Wood cil furnace air-conditoning unit, Gar Wood Indust Inc.

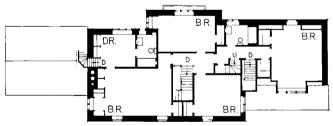
Plumbing: Copper tubing; fixtures, Crane Kitchen: Built-in kitchen range hood; ve lator, "The Range Ventor", Universal Blo Co.

Electrical Installation: Phone system of in communication, Philoo

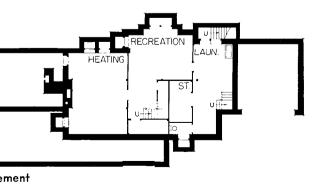
Cost: approx. 32c per cubic foot



rior of library



Second floor





First floor



House for Dr. Louis E. Williams, MADISON, NEW JERSEY

PAUL W. DRA Archit

This house includes a doctor's suite consisting of reception rooffice and examination room. The suite has a private entrance, adjayet subordinated to the front door. The first floor lavatory can seither doctor's suite or owner's rooms.

MATERIALS AND EQUIPMENT

STRUCTURE

Frame and brick veneer

EXTERIOR

Roof: Black slate, "Genuine Hard Vein Bangor," North Bangor Slate Co.; copper gutters, leaders and flashings

Sash: Double hung and casements, Andersen Corp.

Insulation: 4" Capitol rock wool, The Standard Lime & Stone Co.

Doors: Special and six panel Colonial, pine, painted; garage doors, overhead stock with Stanley hardware, The Stanley Works

INTERIOR

Walls: Plastered three coats over wire lath; main rooms papered; baths and

kitchen, Frankiin tiles; game room, į

cypress

Doors: Special and six panel Colopine, painted

Trim: Special and Curtis stock

EQUIPMENT

Heating: Gas fired unit, Fox Fur Co.; winter air-conditioned heat; perature controls, Minneapolis-Hone; Regulator Co.; gas hot-water hear Plumbing: Fixtures, Kohler Co.; v piping, American Brass Co.

piping, American Brass Co.

Weatherstripping: Door and wind

metal **Electrical installation:** Fixtures, A.

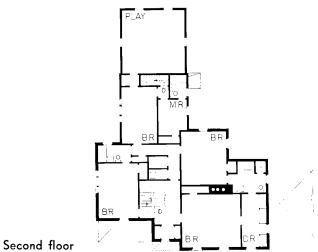
Hendrickson & Co.

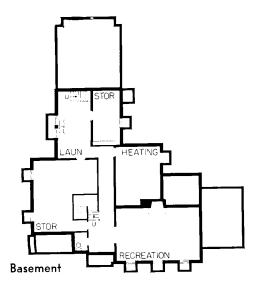
Kitchen: Range, gas; refrigerator, eral Electric Co.

Hardware: Colonial brass

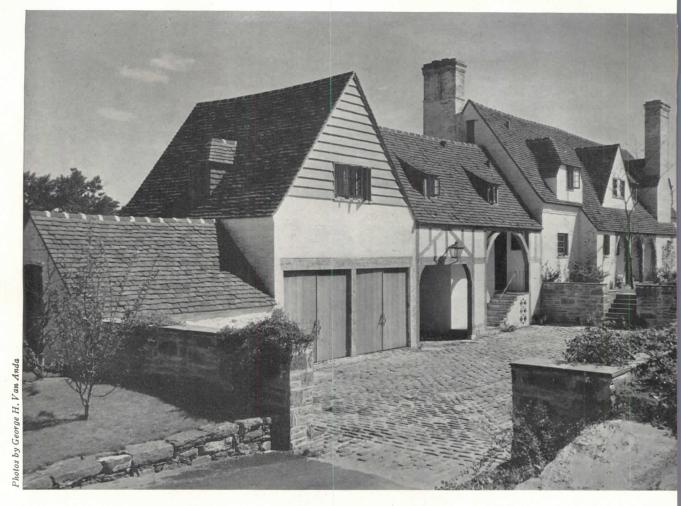


view from the north, above, vs screening of the service ry from living portions of house. The small enclosed ch between the dining room living porch is an auxiliary ng area.



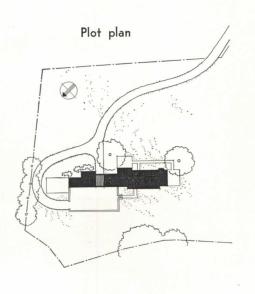


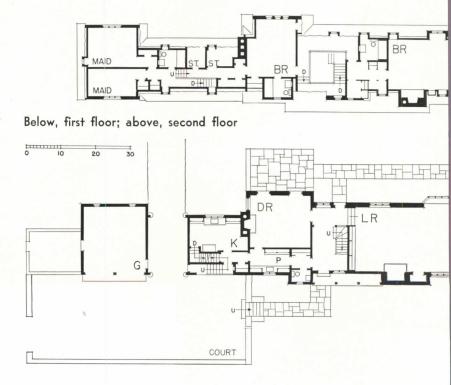




House for Mrs. Sonja S. Hohe, HARRISON, NEW YORK

JAMES JENNINGS BEV.
Archite





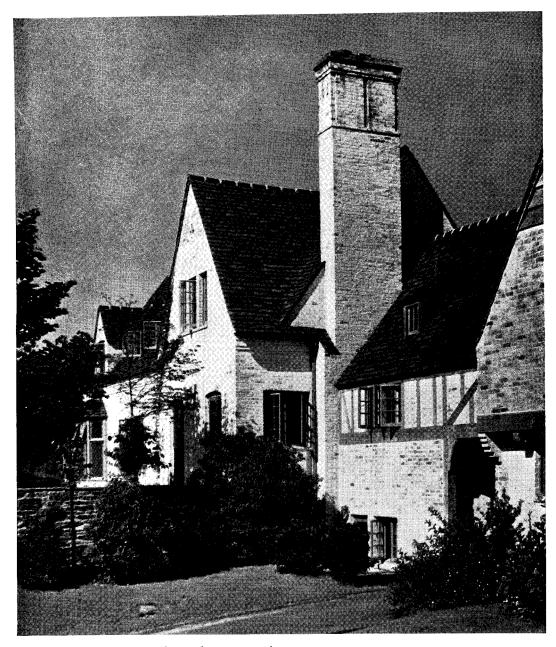


Photo on opposite page shows the courtyard front; above, detail of the entrance front, showing the driveway which passes through the building.

FOUNDATION

Concrete footings and walls

STRUCTURE

Wood frame, brick veneer

Walls: Brick facing, painted; stucco at driveway Sash: Steel casements, Lemco, Croft Steel Windows,

Roof: Tile, Ludowici-Celadon Co. Insulation: Balsam-wool, Wood Conversion Co.

INTERIOR

Floors: Garage, cement; kitchen, Armstrong's linoleum; first floor hall, loggia, terraces, flagstone; baths, tile; remainder, hardwood

Walls: 2" x 4" studs and plaster; Jacobson orna-

Ceilings: Exposed oak beams in living room; plaster in remainder

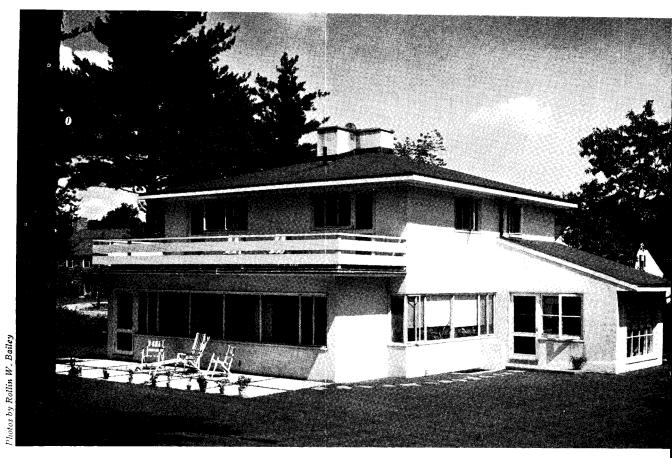
EQUIPMENT

Heating: Boiler, Fitzgibbons Boiler Co., Inc.; radiation, American Radiator Co.; valves, Hoffman Specialty Co., Inc.

Hardware and lighting fixtures: Special, Charles Arcularius

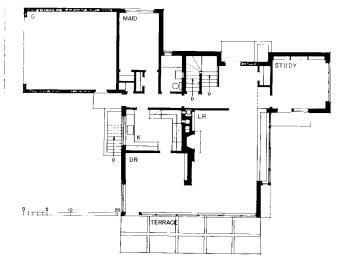
Plumbing: Fixtures, Standard Sanitary Mfg. Co.; medicine cabinets and accessories, Hoegger, Inc.

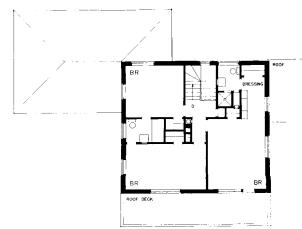
Fireplaces: Dampers, H. W. Covert Co. Incinerator: Kerner Incinerator Co.



House for Edward Melnick BROOKLINE, MASS. SAMUEL GLASER Architect







Plans: at left, first floor; above, second floor. Ph top, garden elevation; center, detail front entr



ERIALS AND IPMENT

NOITAGE

ete blocks 12" thick and filled ement

CTURE

r concrete, reinforced con-beams and lintels; pre-cast ete joists and reinforced con-floors

RIOR : Cinder concrete walls, cov-with 1" Portland cement o, skim coat, California Stucco cts Co.; glass block, Corning-urgh Plate Glass Co. Steel, Detroit Steel Products

Thick butt asphalt shingles & Son, Inc.; built-up deck : Wood to detail

tion: Walls, double airspace Reynolds metallation, type B, olds Corp.; ceiling under roof, ock wool, U. S. Gypsum Co.

RIOR

: Linoleum, Congoleum-Nairn,

: Wood stud, gypsum lath, ed plaster

ngs: Wire lath and painted

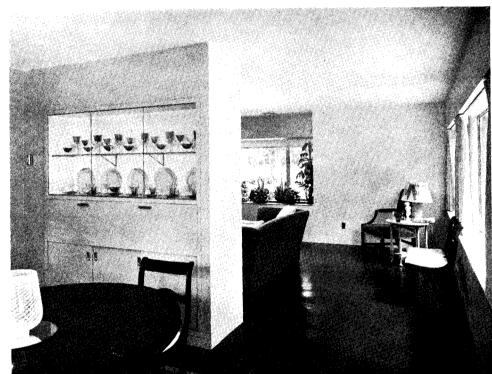
: "Rezo" flush, Paine Lumber

PMENT

ng: Winter air-conditioning n, Moncrief

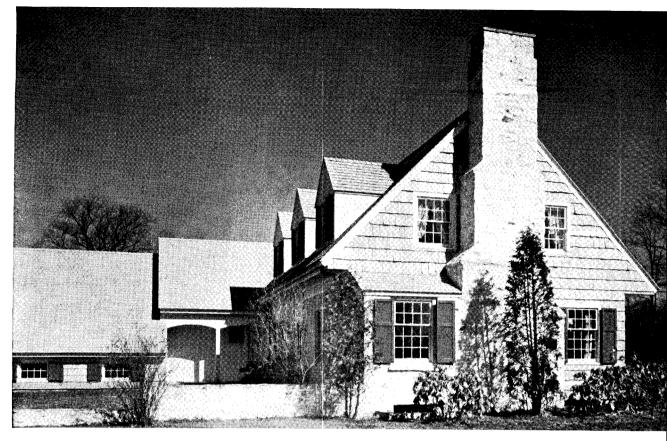
oing: Fixtures, Briggs steel; er hot and cold water supplies erator: First floor feed, Kerner

en: Electric refrigerator, e; electric range, Westing-Electric & Manufacturing Co. Cost: 42c per cubic foot



There are many interesting points about this house. Indicated in the first floor plan: undercover access to garage through a secondary hall; maid's bath, also accessible as first floor lavatory; screen partition between dining and liv-

ing areas. The built-in flower box in the living room is shown at the top of this page; lower photograph, view from dining into living areas, shows built-in china, linen and silver cupboards.



House for John C. Smith, NEW CANAAN, CONNECTICUT

WALTER BRADNEE KI Archi

FOUNDATION

Monolithic waterproof concrete

STRUCTURE

Wood frame

EXTERIOR

Walls: Hand rived cypress shingles
Insulation: Exterior walls and second-story ceiling completely
enveloped in rock wool

INTERIOR Walls: 2" by 4" stud, plastered Floors: Oak

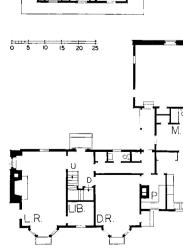
EQUIPMENT

EQUIPMENT
Heating: Scott Newcomb air-conditioning system, Home Oil Co. Plumbing: Fixtures, Standard Sanitary Mfg. Co.; brass piping Electrical installation: Fixtures, Portchester Lighting Fixture Corp. Kitchen: Stainless steel sinks; metal cabinets, Bradley Kitchen Cabinet Co.; linoleum counter tops; electric range, Westinghouse Electric and Manufacturing Co.; domestic hot-water heater, Westinghouse Electric and Manufacturing Co.; domestic hot-water heater, Westinghouse Electric and Manufacturing Co.

inghouse Electric and Manufacturing Co. Cost: \$22,000



First floor



BUILDING TYPES