

new england

# ARCHITECT

AND

# BUILDER ILLUSTRATED

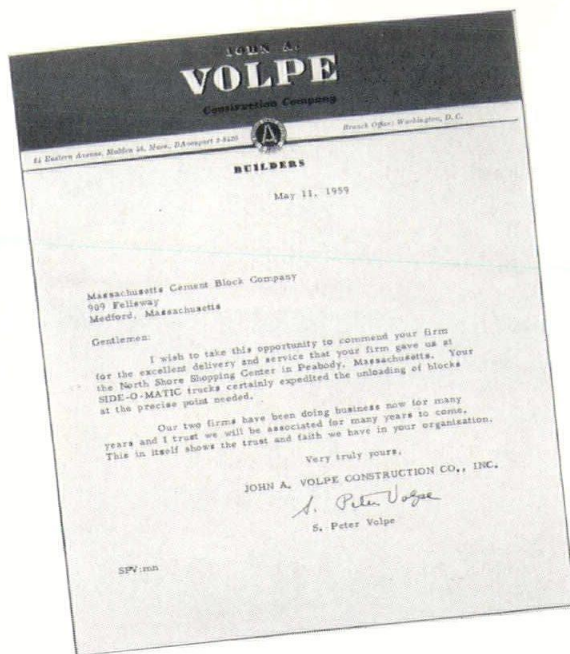
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ARTS FESTIVAL ISSUE

May '59





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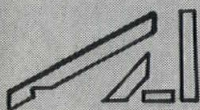
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and

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### COVER ILLUSTRATION

*Final preparations being made for the 1959 Boston Arts Festival.*

*See page 13 for full details.*

**Signed Articles.** As one object of the "New England Architect and Builder, Illustrated" is to afford a forum for the free expression of matters of importance relating to the building trade and architectural profession, and as the widest range of opinion is necessary in order that different aspects of such matters may be presented, the editors assume no responsibility for the opinions or facts in signed articles.

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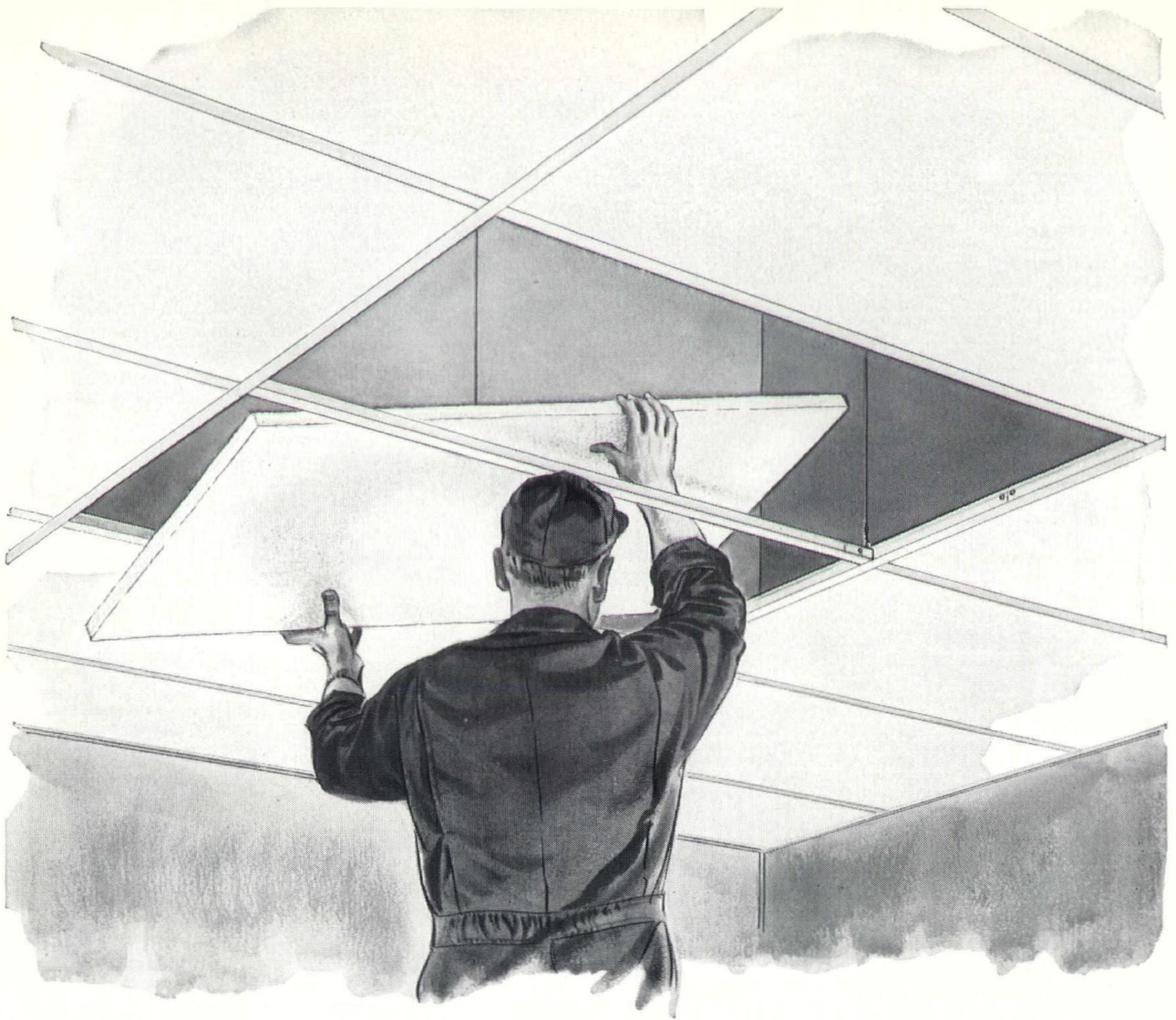
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## EDITORIAL

*The response to the Editorial in our Mar/April issue in which we spoke of an Architectural Samples Bureau, has been enthusiastic. (A few of the early replies are printed in the "Letters" column.) You have been writing, calling and coming in to see us . . . our sincere appreciation. As we all realize, this is a great undertaking and upon the valuation of your letters and cards will the final decision rest. We are in need of, and anxiously awaiting further ideas, comments and suggestions. If you intended to write and have not done so, please take the time today, to mail a brief reply to the questions we asked. For your convenience we are repeating the inquiry from last month's issue.*

*Would you have use for the facilities of an Architectural Samples Bureau?*

*What do you think of the idea?*

*Is it something we in the trade and profession need and can use to good advantage?*

*Have you thought of other facilities not mentioned here which could be incorporated into the center?*

*Sincerely, we request your help in deciding whether or not this could be an asset to the industry.*

*The Publishers*



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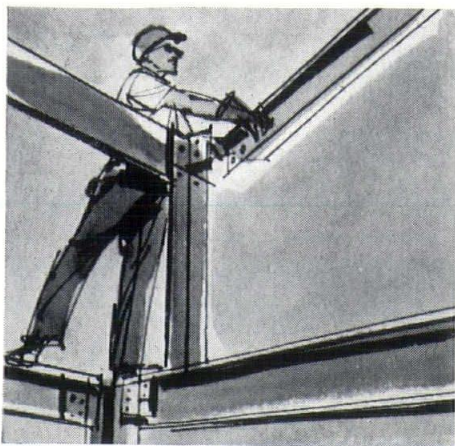
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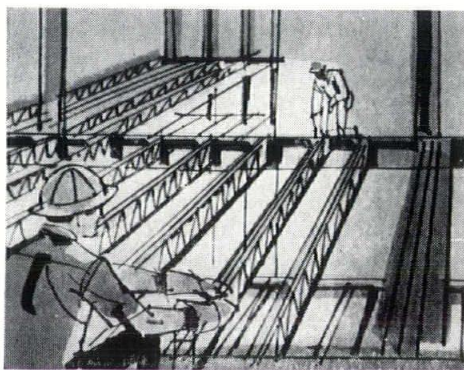


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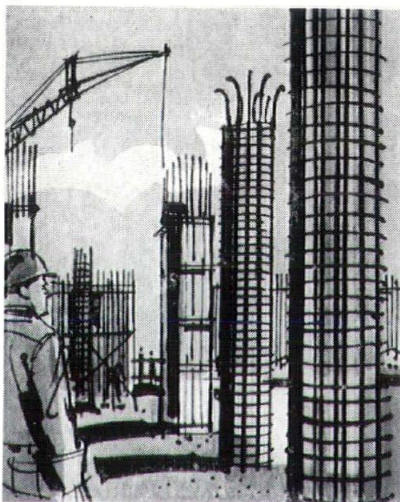
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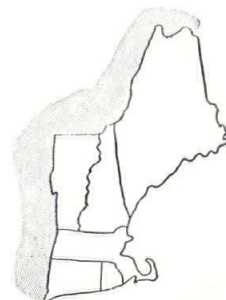
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# BETHLEHEM STEEL





# Letters

Gentlemen:

Congratulations! I read your March/April Editorial with great interest and enthusiasm. We in New England are in need of progressive thinking which, in turn, will lead to progressive actions. An Architectural Samples Bureau of which you speak for New England will indeed solve many problems of those in the Building, Construction, Engineering and Architectural fields. It is my sincere hope that you have the co-operation of these people in order to establish such a Bureau. May I congratulate you again! I shall look forward to reading of your progress in this endeavor in your future issues.

Very truly yours,

J. WILLIAM REARDON  
Publisher

GAINEY'S CONSTRUCTION  
NEWSLETTER

Gentlemen:

With reference to the Editorial as published in the March-April, 1959 issue of *New England Architect and Builder Illustrated*, please be advised that we wholeheartedly support the interest of an Architectural Samples Bureau for New England.

We commend you and your staff in initiating this advantageous venture to the construction field.

Wishing you the very best, and assuring you of our support, we are

Very truly yours,

DINATALE FLOORS, INC.  
by FRED M. DELLORFANO

Gentlemen . . . The idea for a center is an excellent one — but it would take a tremendous amount of work to make it of value.

Materials shown must be up to date and not just another place for standards to be repeated.

It certainly could be used to advantage.

Cordially yours,

EATON W. TARBELL, A.I.A.

Gentlemen:

Referring to the possibility of establishing a New England Architectural Center in Boston, we heartily approve the idea as providing a long needed service in this area.

Very truly yours,

Korslund, LeNormand & Quann, Inc.  
By Harry J. Korslund

## MARINE CONTRACTORS' OUTING

The twenty-fifth annual outing and field day of the New England Marine Contractors Chapter of The Associated General Contractors of America, Inc. will be held at the Marshfield Country Club, Marshfield, Massachusetts on June 12, 1959. Dinner will be served at "The Hobomock", Pembroke Centre, in the evening.

The members and their guests are looking forward to the same pleasant day that they have enjoyed for many years. Many beautiful gifts have been donated for the occasion, and the guests look forward to the distribution of these as prizes with great anticipation.

SPECIFY  Cabot's



House in Portland, Oregon.  
Architect: Van Evera Bailey.  
Siding and trim stained with  
Cabot's Bleaching Oil.

for the "natural  
weathered" look

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...manufacturing chemists since 1877

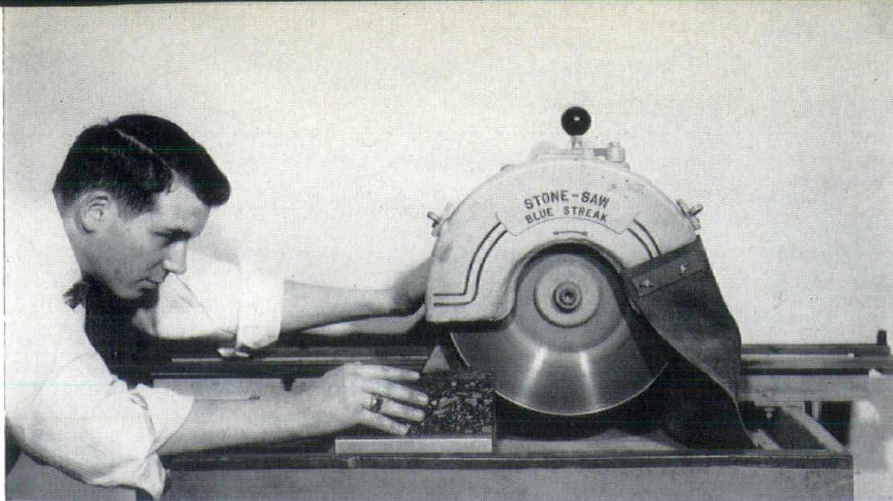
*Samuel Cabot*

**SAMUEL CABOT INC.** 539 Oliver Building, Boston 9, Mass.

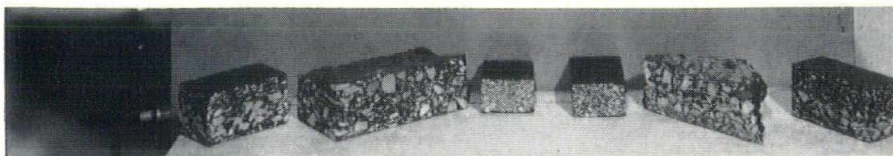
Please send information on Cabot's Bleaching Oil

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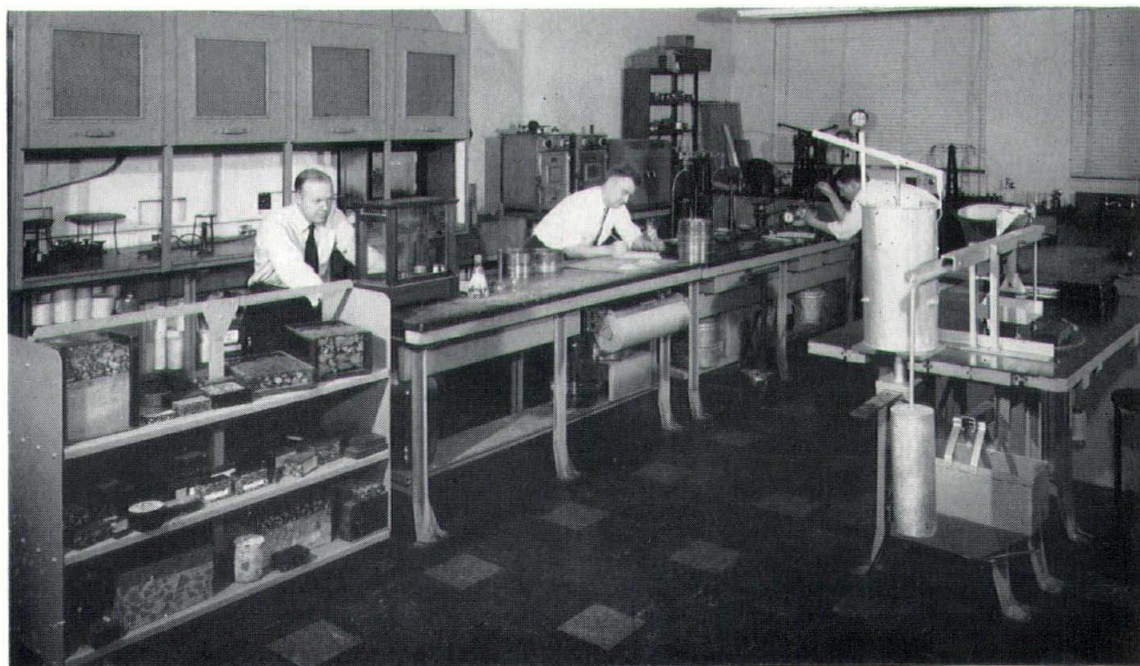


## CUSTOM DESIGNED PAVEMENTS

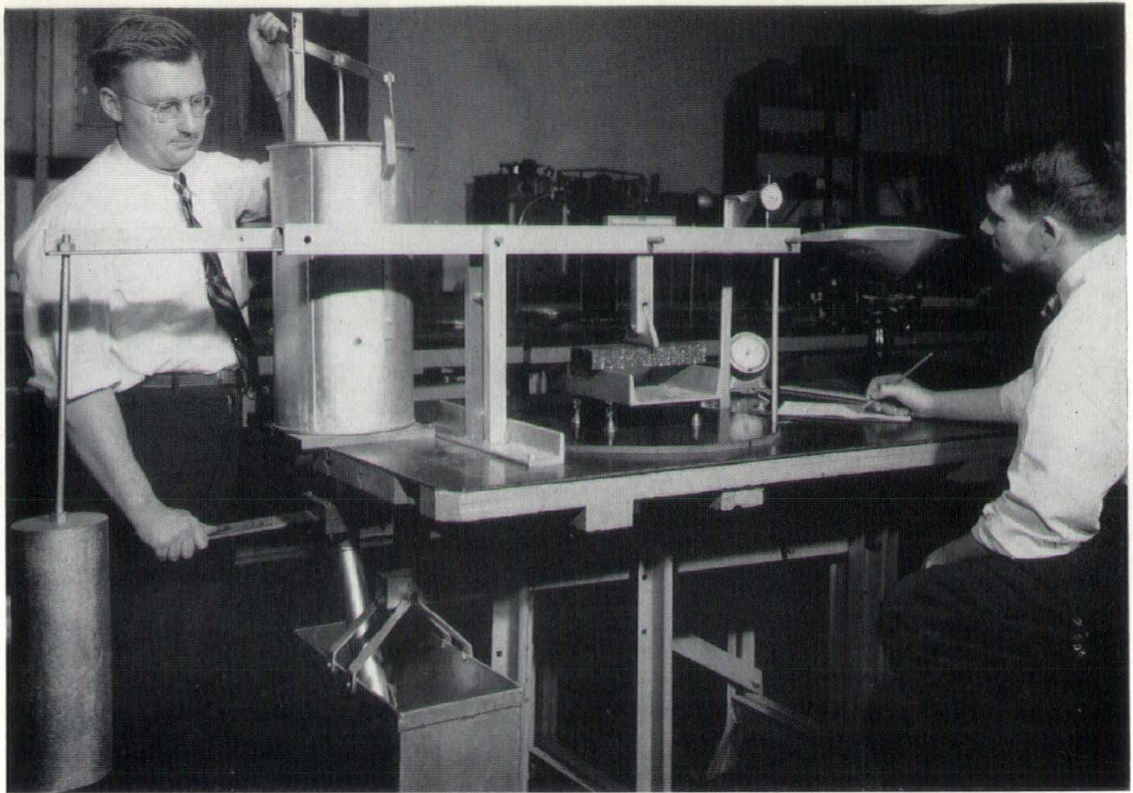


By  
Lansing Tuttle

Today some of the larger paving contractors maintain Technical Service Departments well equipped to advise architects and engineers on special paving problems. The paving contractor being a so-called specialty contractor ordinarily has very little contact with the architect or owner and many times operates merely as a sub-contractor to the builder. As a result, too few architects and engineers are sufficiently aware of the financial savings and other advantages to be gained by the full utilization of different types of pavements specifically planned to meet certain design conditions. Asphalt construction is often chosen because of its versatility in meeting various problems. It is recognized as an excellent paving material which is relatively low in initial cost and is economical to maintain over a long period of time.

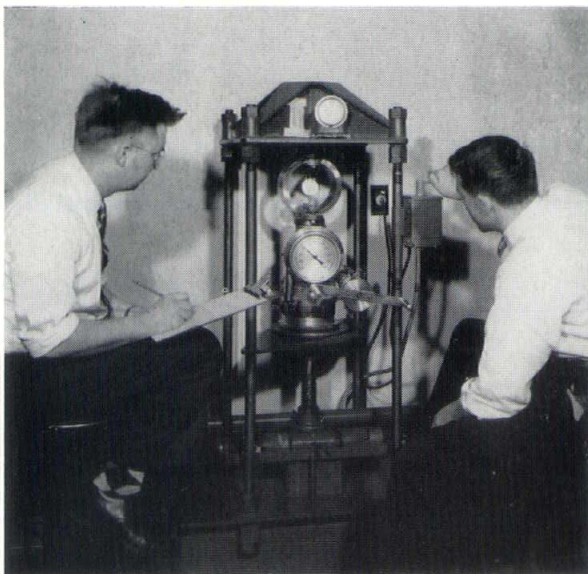






Warren Brothers Roads Company, operating nine asphalt plants in New England, maintains a modern, well-equipped laboratory to design and develop new mixes, prepare specifications and control the various manufacturing processes to assure the production of the highest quality material. Among the many proprietary type mixtures developed in this laboratory are:

**Warcolite Stockpile Mixture:** A cold type of asphalt mixture available either in bulk or paper bags for patching or the do-it-yourself paving trade.



**Warcolite Cork Asphalt:** A truly resilient surface for tennis courts, playgrounds or athletic tracks.

**Warrenite-Bitulithic:** A dense durable surface for factory or warehouse floors where grooving caused by concentrated loads or possible disintegration caused by chemicals are controlling factors.

**Granovia:** A skid-resistant, water-tight pavement, particularly suited as an overlay on concrete slabs for use on bridge decks or parking areas on roof decks.

**Asphalt Curb Mix:** A tough mixture specifically designed for asphalt berms and curbs.

The above mixes represent but a few of the many specialties required by the construction industry. Hardly a day passes without the call for a new design to overcome some challenging problem, whether it be the floor of a dairy which will resist lactic acid, a waterproof roof deck or the surfacing for a heliport on a Texas Tower near the Atlantic Coast.

As every architect or engineer knows, the success of any construction project depends upon following certain fundamental procedures:

1. Proper design and preparation of clear concise specifications.
2. Construction performed by skilled workmen capably supervised.
3. Examination and Testing of the end product to ascertain compliance with the specifications.

A well-organized Technical Service Department will aid in accomplishing each of the above steps.



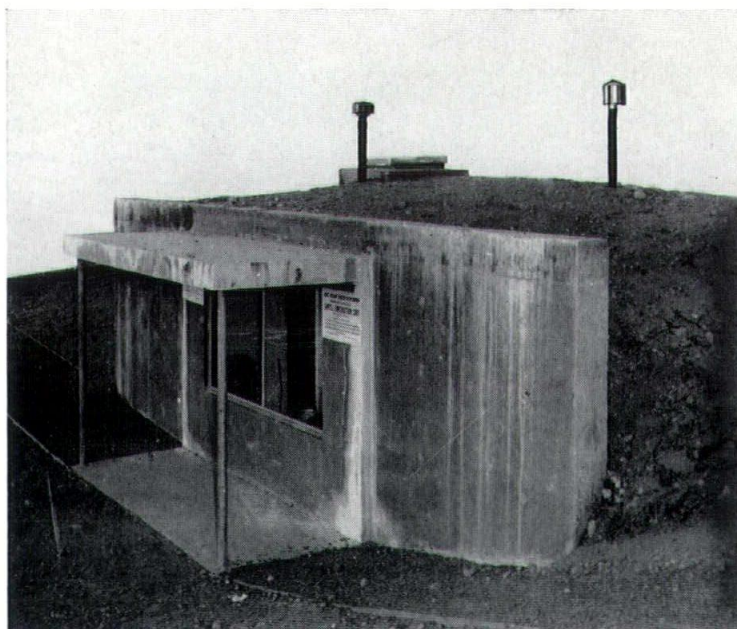
# Family Fallout Shelters

*The first Atomic-age radioactive fallout refuge in the United States, described as a Prototype Family Shelter and designed for the back yard of a single family house in North Wilbraham, Mass., is open for inspection by the public.*

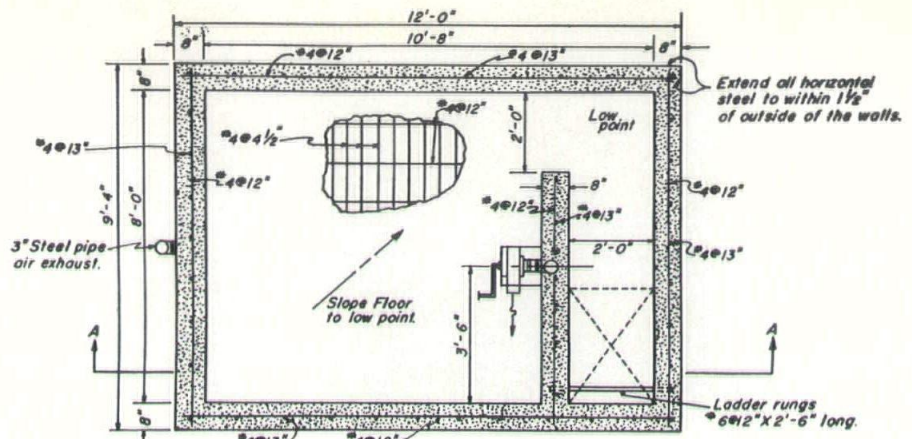
The structure was built late last year under auspices of the Massachusetts Civil Defense Agency according to specifications laid out by the Federal Office of Civil and Defense Mobilization. Building supply firms of the Springfield area contributed the materials, and contractor Carl Sapelli donated the construction work.

Federal specifications were followed rigidly, even to the installation of intake and exhaust ventilators. One exception was made. Because the primary purpose of the structure is to "sell" the public on a home shelter program, the prototype was faced with glass, enabling visitors and passers-by to obtain an inside view from the highway.

Visitors to the shelter are informed that whenever a nuclear bomb is exploded near the ground, large amounts of earth and debris are drawn upwards by the ascending fireball. The resulting cloud may rise to a height of 80,000 feet or more. Radioactively contaminated particles which fall back to earth from this cloud are termed "fallout." Some of these radioactive particles are deposited close to the point of burst soon after the explosion, while others may be carried several hundred miles by the winds before they settle to earth. Because fallout could require occupants to remain in a shelter for two weeks or more, the North Wilbraham structure, according to CD specifications, includes spaces for storage of food, water, medical supplies, sanitation and all other recommended items needed by a family for a duration of at least two weeks. In many areas, radiation levels may permit leaving shelter, for intermittent periods or permanently, after two or three days.

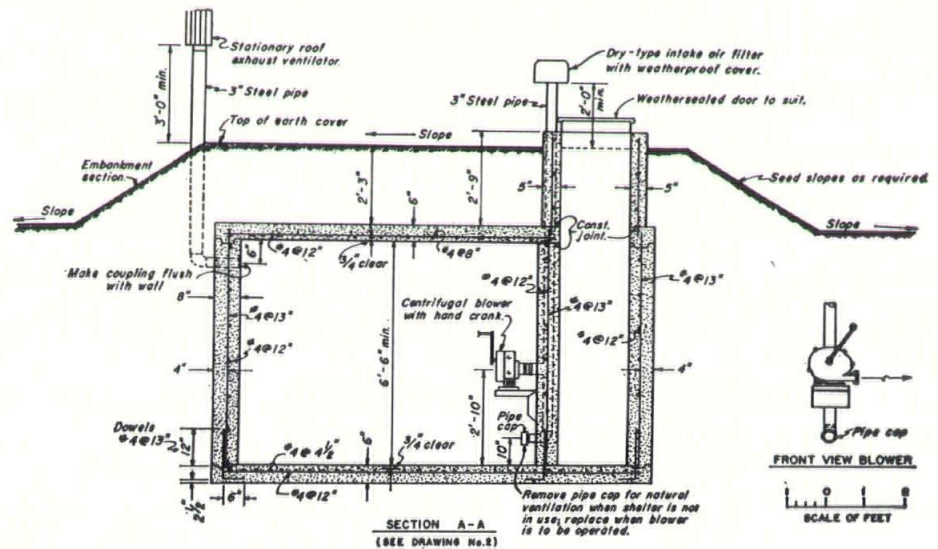






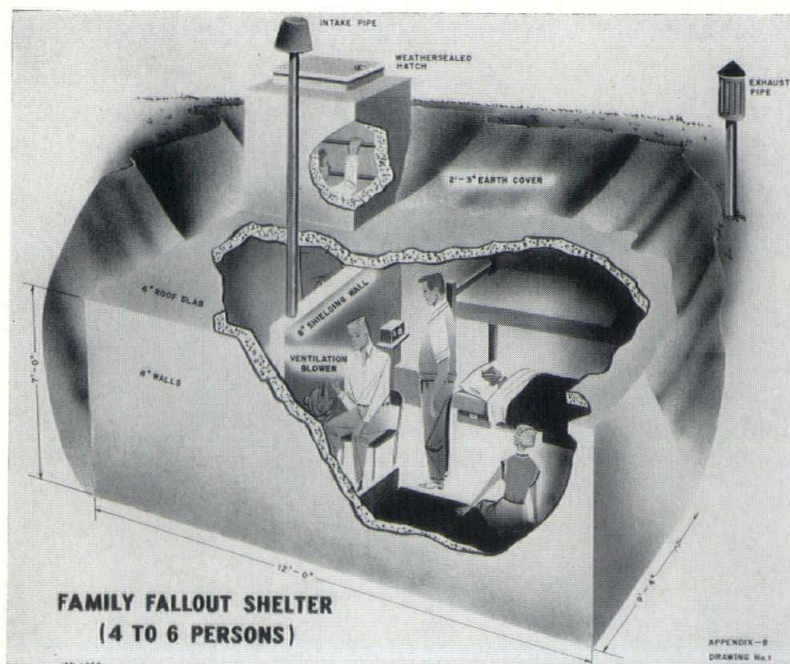
Basic Underground Family Fallout Shelter

Plan.



Basic Underground Family Fallout Shelter

Longitudinal Section



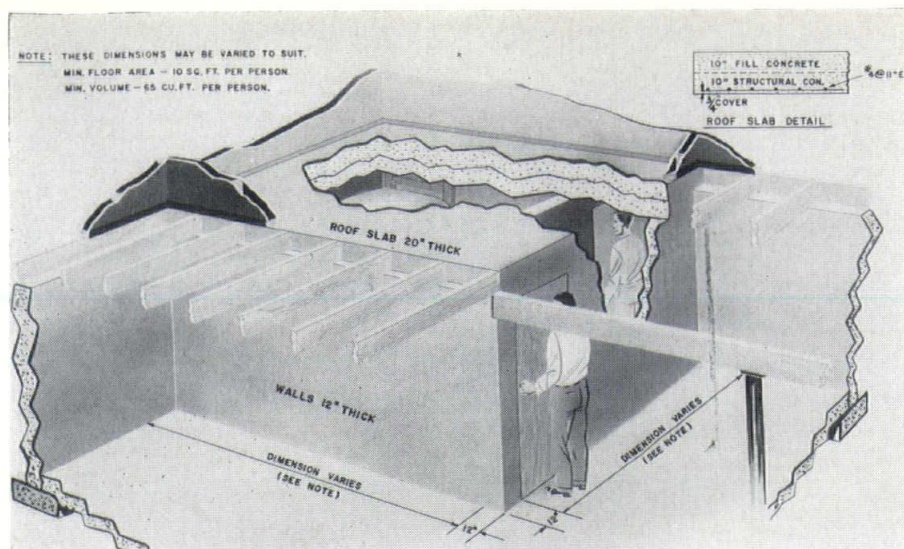
Basement Family Fallout Shelter (4 to 6 persons).

However, since the intensity of fallout at any specific place is impossible to predict prior to an attack, it is advisable to plan for a two-week occupancy. There are several types of radiation associated with fallout. From the standpoint of shelter, however, the most significant hazard is from gamma radiation. Gamma rays, like X-rays, are highly penetrating, and to secure adequate protection from them special standards for shelter are required.

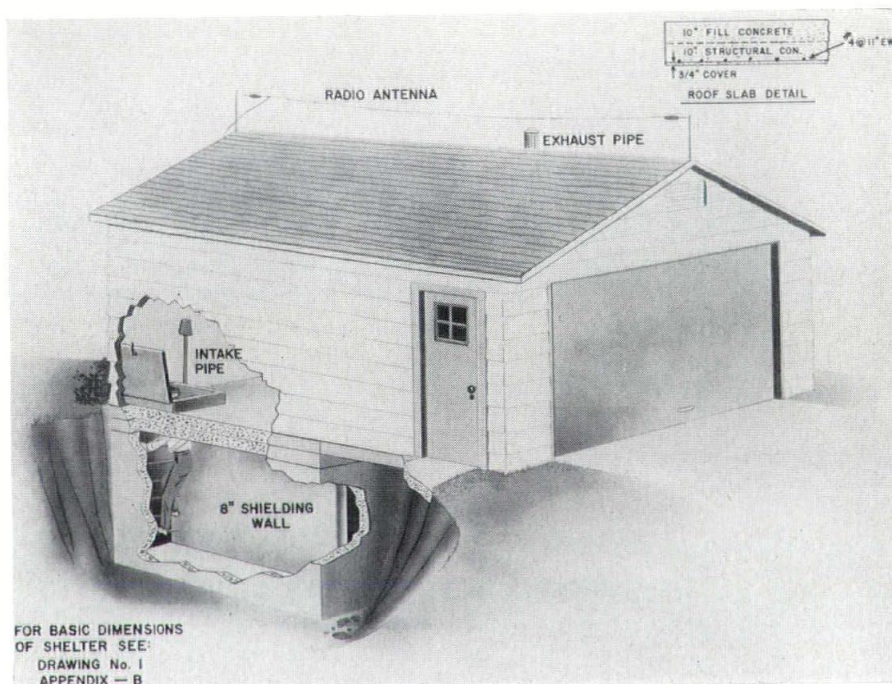
Other prototype shelters are scheduled for construction at accessible points throughout Massachusetts. As a further incentive to citizens, Mass. Civil Defense Director, Col. John J. Devlin has sponsored a bill before the 1959 session of the Massachusetts Legislature to exempt from real property taxes any shelters constructed by homeowners or businessmen. Under the terms of this bill, shelters complying with OCDM requirements would be taxed only insofar as they may be used for purposes other than protection from enemy attack. Where such a dual purpose exists, assessment for tax purposes shall be adjusted.

This first concrete defense against fallout inaugurates an ambitious and widespread shelter program, which has already attracted national attention and makes Massachusetts a leader in Civil Defense Planning.





Family Fallout Shelter Incorporated into Garage.



## TECHNICAL BULLETIN

A Civil Defense Technical Bulletin dated May, 1958, contains specifications and plans describing the fallout shelter in detail. This bulletin may be obtained by writing Col. John J. Devlin, Director Mass. Civil Defense Agency, 143 Speen Street, Natick, Mass. Information in this bulletin provides interesting data such as shelter dimensions, which require at least  $12\frac{1}{2}$  square feet of floor area, and 80 cubic feet of volume for each occupant; ceiling heights not less than  $6\frac{1}{2}$  feet; and entranceways, which should be kept to an absolute minimum, usually not more than two feet.

Shielding material will be afforded by an earth cover of three feet or an equivalent mass of other material or combination of materials, such as concrete, 24 inches; iron and steel,  $7\frac{1}{2}$  inches; and lead, three inches. Complete standards for ventilation, battery radio equipment, food and water supplies, sanitation, waterproofing, etc., are also included. Various adaptations for shelters which can be incorporated under a garage, in a basement area, or under a garden house are illustrated and described, some of which are reproduced in this article.





## BOSTON ARTS FESTIVAL - 1959

### *Architectural Competition*

*Architecture happens when the architect applies knowledge of and sensitivity to material, techniques, form, climate, site, and historical continuity, to house some element of human behavior, the nature of which he has come to understand. A work of architecture differs from a building in that its meaning is greater than the sum of its parts.*

*The Arts Festival Architecture Competition is intended to select and bring to broad public attention outstanding examples of architecture recently completed in New England. It is conducted in cooperation with the New England Regional Council of the American Institute of Architects, the Massachusetts State Association of Architects, and the Boston Society of Architects.*

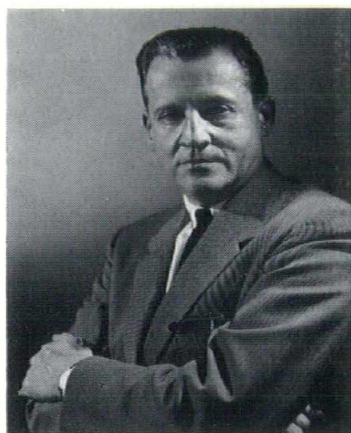
*The jury looked for and found in the works selected, evidence of craftsmanship in architecture. They are distinguished by the absence of clichés and pretentiousness, the intelligent use of materials, and careful adaptation to site. The jury awards display the scale peculiar to their individual human requirements. Regional character has been achieved by a sensitive reinterpretation of the New England climate and way of life.*



DOUGLAS WILLIAM ORR, F.A.I.A.,  
graduated Yale University B.F.A., 1919  
and received his Master's Degree at  
Yale, M.F.A. in 1927.

Mr. Orr was President of the American  
Institute of Architects, 1947-49  
and is an Honorary Corresponding Member  
of the Royal Institute of British Architects.

He has also served on various Federal  
and Presidential commissions for  
the United States government.  
His office is under the name of  
Douglas Orr, Architect,  
in New Haven, Connecticut.



MORRIS KETCHUM, JR., F.A.I.A.,  
partner in the New York firm of  
Ketchum & Sharp, Architects, is a graduate  
of Columbia University, B.Arch. 1928  
and the School of Fine Arts, Fontainebleau,  
France. He was an instructor at  
New York University, The Cooper Union,  
Pratt Institute as well as  
Assistant Professor at Yale University.  
He is also known for the many articles he  
has written for professional, technical  
and popular magazines.

JAMES M. FITCH, Associate Professor  
of History at Columbia's School  
of Architecture, was trained as an  
architect (Tulane 1928).

Author of two technical books,  
Professor Fitch is currently at work  
on a biography of Horatio Greenough,  
the great American functionalist.

He is also a member of the  
Society of Architectural Historians,  
the Architectural League,  
The Municipal Art Society of New York  
and a director of the  
International Design Conference  
in Aspen, Colorado.

*Selected  
by the Judges  
for Exhibition*

Material and Copy on the following pages was  
published as submitted by the architects.

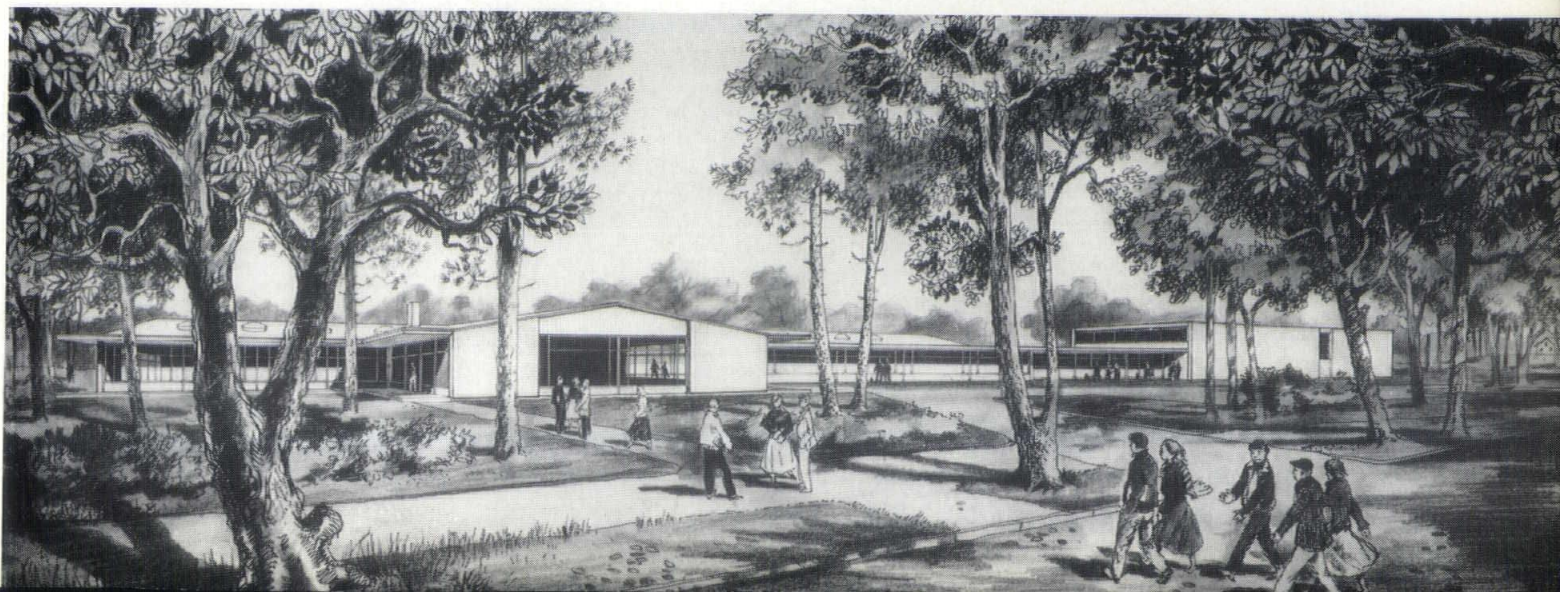




## THE ARCHITECTS COLLABORATIVE

CAMBRIDGE, MASSACHUSETTS

WILLIAM F. POLLARD JUNIOR HIGH SCHOOL . . . NEEDHAM, MASSACHUSETTS







*New England Architect and Builder Illustrated* had previously chosen this school for editorial comment in the December 1958 edition. Further technical information may be had by referring to this issue.

## PROGRAM AND DESIGN

The William F. Pollard Junior High School (grades 7, 8, and 9) for 800 pupils was designed to meet the changing educational requirements *without adding space* to what was needed for the present regular classroom arrangement. Realizing that secondary education was in a state of flux, there was a strict budgetary requirement that the total space for new teaching techniques not exceed the space required under today's regular classroom arrangement and scheduling. Furthermore, it was deemed necessary that the school be laid out, at least for the time being, along the lines of regular classrooms of 900 square feet and 750 square feet, but able to be converted as program and teaching techniques were modified.

Since the *library* was considered a central research point, it was placed at one center or core point in the plan, the other core being supplied by the *creative arts*. The walls to these areas were handled in a modular construction — partly glazed and partly used for exhibit units or bookshelves.

The auditorium was designed to seat 450, and the cafeteria was placed directly adjacent to it to serve as lobby space for evening meetings. Functions relating directly to the auditorium such as the **music** department were grouped with it, and less directly, the shops. The locker rooms relate both to the gym and the play fields.

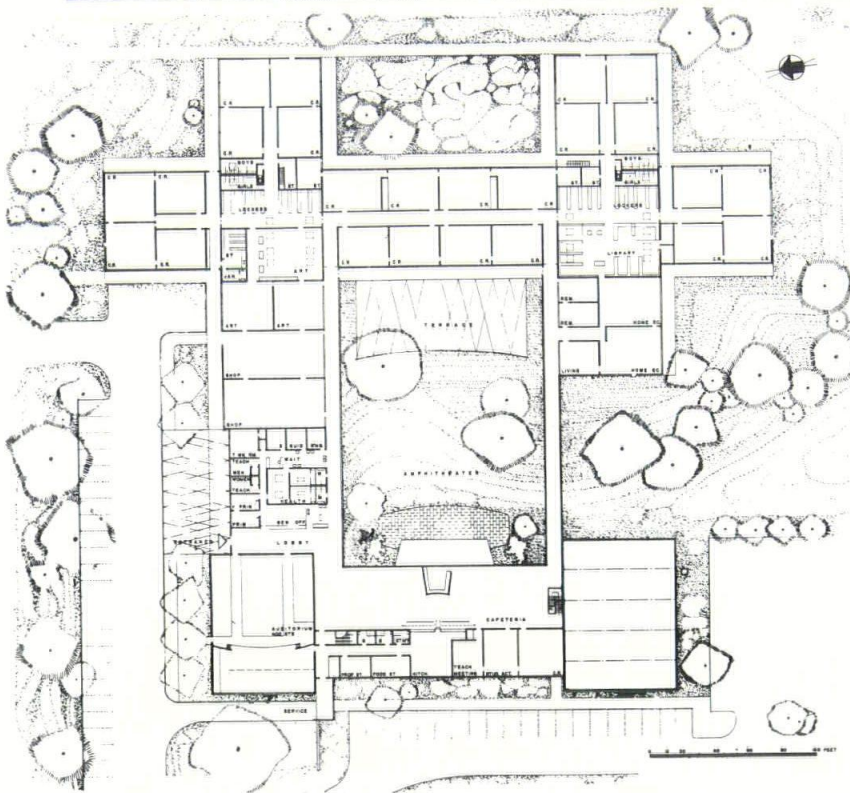
## SITE

The site located in a very pleasant and well established residential area was formerly a park. One of the principal design considerations was to preserve the trees and general character as much as possible. A substantial drop in the land from the street to the back of the site existed with an arm of land projecting back and the land falling away on both sides. This was used for the main study area. The block containing the activity areas rides over the side of the hill with one story on the street side and two stories at the back.

## TECHNICAL DATA

**Construction** — The approach was to find an economical shelter structure which could be flexibly divided according to teaching requirements. After considerable investigation, the Macomber V-lock structural system was chosen. This includes columns on five-foot centers carrying web bar joists and steel decking spanning between. The square end connections and wide spacing of joists provided a neat appearance, and therefore, in most areas the structure was left exposed. The five-foot column spacing also provided a convenient sliding sash.

**Heating and Ventilating** — In order to achieve maximum flexibility both of supply and division of space, an under-floor warm air duct system was chosen. In the classroom section, this is achieved from two heating pits at which steam is converted to warm air, and from which under-floor ducts go in a radiating pattern to the periphery of the building, producing a continuous warm air supply.





# S E C O N D      A W A R D

THE ARCHITECTS COLLABORATIVE

CAMBRIDGE, MASSACHUSETTS



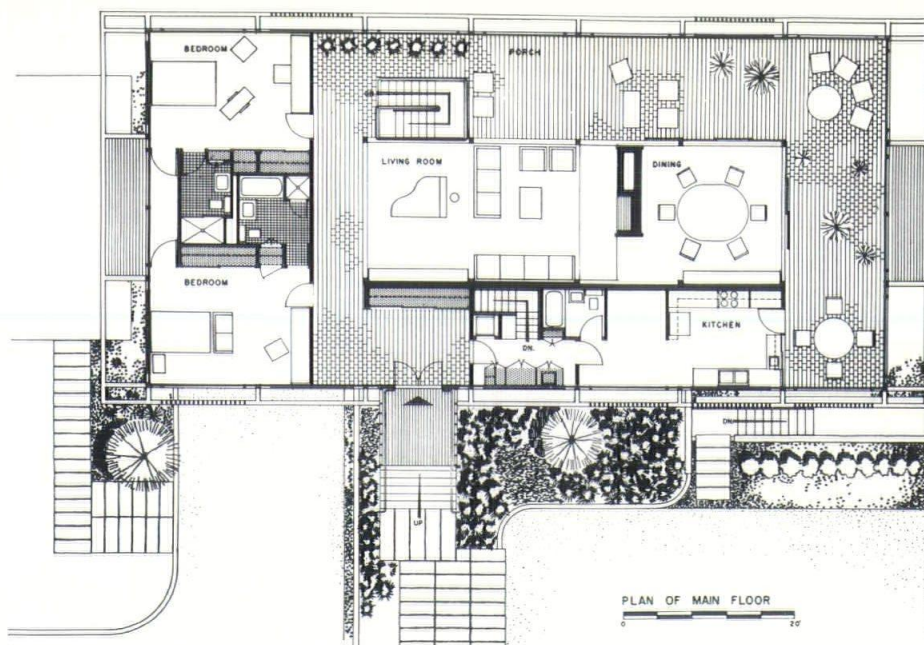
## *Residence for Mr. & Mrs. Carl Murchison*

PROVINCETOWN • MASSACHUSETTS

The Murchison house sits on a high sand dune at the end of Cape Cod commanding a panoramic view of the ocean in three directions.

Designed for a single couple who are in the habit of having large parties for 100 people or more, the main floor plan provides a living room within a living room. The central space is designed to be psychologically separate from the total open space but can be completely opened up providing an expansive area for large gatherings.

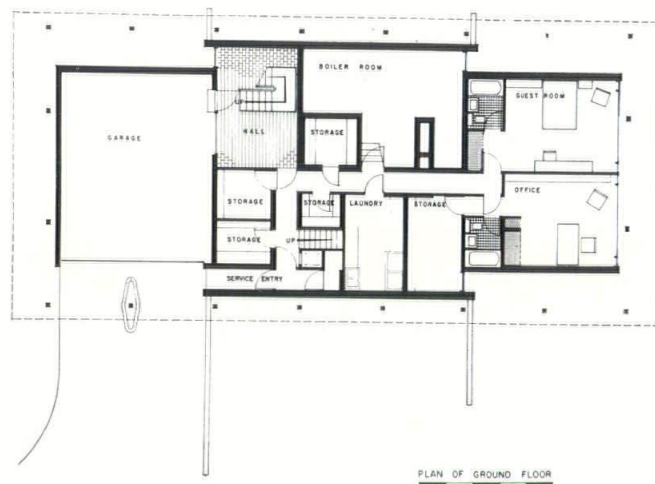




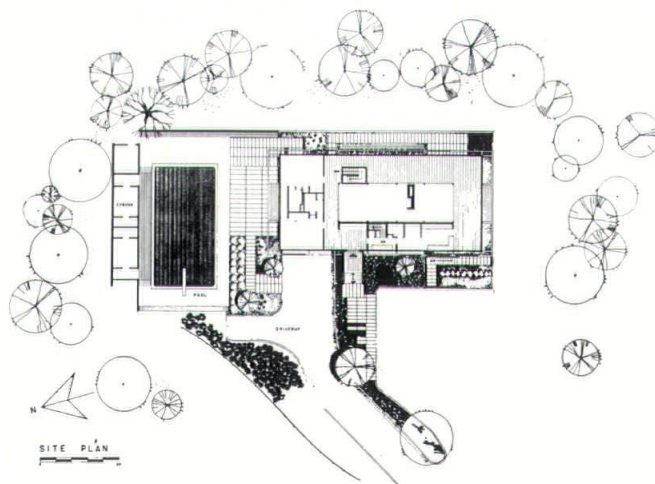
**MAIN FLOOR**

On the floor below are an office, guest room, storage room, garage, laundry room, and mechanical equipment area.

Aside from the normal mechanical equipment, the Murchison house has a dumb-waiter, radio controlled garage doors, a HiFi system with microphones throughout the house, a 35KV standby generator, a water purification system, a 500 cubic foot cold storage room for clothes, an adjoining swimming pool and bathhouses with their own toilet and laundry facilities, and an automatic underground lawn sprinkling system. All mechanized equipment is isolated from the rest of the house for sound deadening and has flexible connections. The floor of the mechanical room floats free from the walls to prevent noise transferal.



**PLAN OF GROUND FLOOR**



**SITE PLAN**



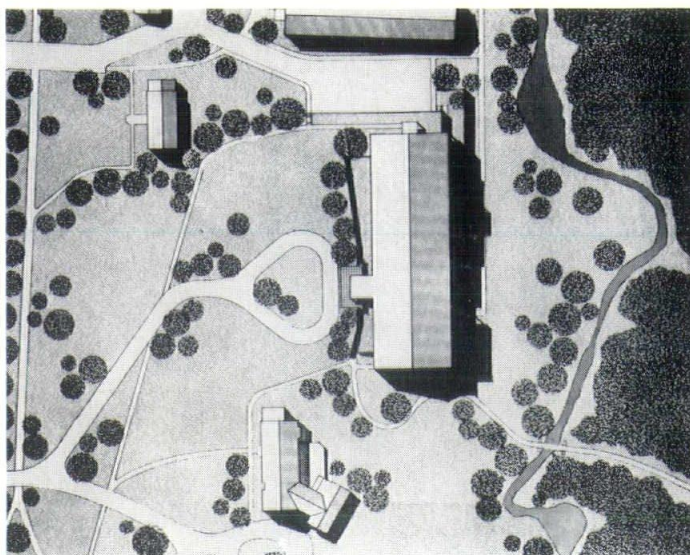


**RONALD GOURLEY**  
ARCHITECT  
CAMBRIDGE, MASSACHUSETTS

**SPECIAL MENTION**

**MEMORIAL UNION BUILDING**  
University of New Hampshire  
Durham, New Hampshire





**THE NEW HAMPSHIRE UNION  
ARCHITECT—RONALD GOURLEY**

This \$1,109,000 construction job (excluding fees and furnishings) is constructed of three floor levels and a basement. The variety of facilities provided include such areas as lounge rooms, meeting rooms, a music room, ballroom, card room, dining room, kitchens, snack counter and cafeteria counter. In addition to student offices





recreation areas, such as bowling alleys, billiard room and table tennis are also included.

A general description of construction called for steel frame and concrete frame, concrete floors, steel roof deck, painted block walls, suspended corrugated aluminum ceilings and concrete and brick exterior walls.

#### COST ANALYSIS:

	Cost
STRUCTURE.....	\$ 766,793.00
PLUMBING.....	27,987.00
HEATING & VENTILATING.....	107,012.00
FOOD SERVICE EQUIPMENT.....	57,122.00
ELECTRICAL.....	78,200.00
ELEVATORS & ESCALATORS.....	10,650.00
SITE WORK.....	61,700.00
TOTAL COST OF BUILDING.....	\$1,109,464.00
FURNISHINGS.....	40,000.00
FEES.....	70,000.00
GRAND TOTAL.....	\$1,219,464.00

Floor Area: 67,500 Sq. Ft.  
Total Volume: 989,700 Cu. Ft.





**NICHOLS & BUTTERFIELD**  
ARCHITECTS

WEST HARTFORD, CONNECTICUT

**FREDERICK U. CONRAD**  
**HIGH SCHOOL**

WEST HARTFORD, CONNECTICUT

# ● **SELECTED FOR EXHIBITION**

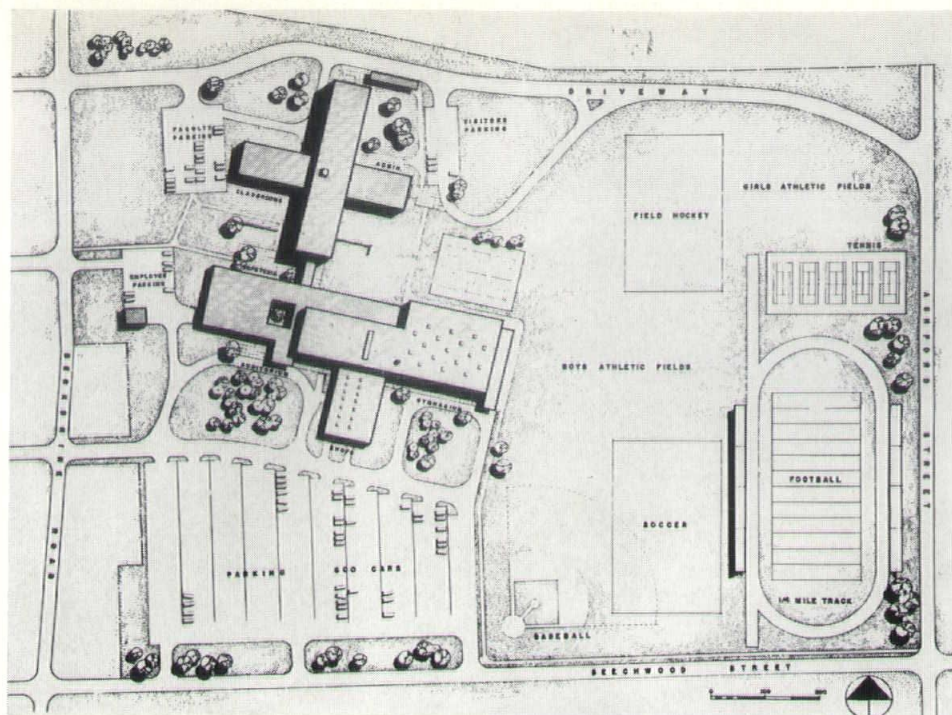
Conrad High School is one of two high schools serving the rapidly growing Town of West Hartford. The 42-acre site was selected because it is central to the long-range growth pattern and easily accessible from the thoroughways of the town. Although located immediately south of an attractive golf course, the land had not been developed because it was low-lying "wet land". However, it was reclaimed for use by lowering a brook and laying cross-drains.

The school itself was placed in the northwest corner of the site for several reasons: to use the safer, higher land for building; to concentrate athletic field spaces; to locate parking in the southeast corner where principal access streets converge; and to integrate the park-like golf course with the buildings.

The largest problem faced in planning this very large school was to combine efficient circulation with a human scale and expression. The most satisfactory solution proved to be a division into two separate compact units related by their contrasting expressions and common spaces. A "North Unit" consisting of academic facilities was placed closer to the quiet, well-landscaped golf course. A "South Unit" housing the larger group activities and public facilities was placed closer to traffic noise and parking.

The multi-story cross-form of the "North Unit" is an efficient functional solution to the circulation problem, which in a high school is especially critical. Closely related activities are closely grouped in separate wings or on separate floor levels. Common facilities such as library, toilets,





storage, elevator, and mechanical equipment are centrally located in the intersections. The unit may be entered from all four ends, and since the north entrance is especially active, a free-standing canopy offers shelter for bus loading. Faculty parking to the west is near faculty rooms; public parking to the east serves the public entrance and administration wing.

Typical classrooms contain cabinets and work counters along the corridor wall, making this a complete storage partition with student lockers lining the corridor side. Metal chalkboards stretch across the front walls with an equal amount of fabric tackboard at the rear. The window walls are steel curtain frames filled with a continuous strip of transparent glass three to eight feet above the floor, the remaining glass being tempered opaque to cut down solar heat gain and glare. A more than usual number of classrooms are planned as laboratories rather than lecture rooms as an outgrowth of the "learn by doing" philosophy adopted in the program.



The "South Unit" incorporates all the larger group activities. Closest to the academic unit, the much-used Cafeteria provides five serving lines to keep things moving. Before and after meals, folding partitions divide the area into two study halls so as to minimize noise and distraction. The side of the room opens onto a paved and planted terrace; another to an attractive interior court. Both have proved to be popular centers of social mingling between classes.

The Auditorium has its own ample entrance and lobby which also accommodates student crowds arriving from the parking area and converging on the Cafeteria at lunch time. The Auditorium itself, with a form carefully shaped to ideal sightlines and acoustic properties, seats over 1,000 people. The large stage offers ample work and storage space in the wings. In addition, the closely allied facilities of Arts and Crafts, Music and Woodworking are immediately adjacent to serve large productions.

The noisier Industrial Arts department forms a small well-isolated wing and has necessary access to paved areas.

Nearest the athletic fields, the Gymnasium area is equipped to seat 1,600 spectators on folding bleachers and to be sub-divided by folding partitions into three instructional areas, each with a full-size basketball court. A balcony on one side, containing one-third of the bleachers, offers additional activity space. The entire space receives an efficient illumination from overhead skydomes alone, eliminating thereby the usual glare from side windows. A separate lobby has been provided here also, to handle large crowds and to serve future swimming facilities.

Auditorium and Gymnasium, both being of similar size, have been unified into a single windowless volume sheathed with textured metal panels. This grouping provides needed visual simplicity and contrasts effectively with the remaining glazed portions of the school.



**SELECTED  
FOR  
EXHIBITION**



**ARCHITECT**

**BAYARD UNDERWOOD**

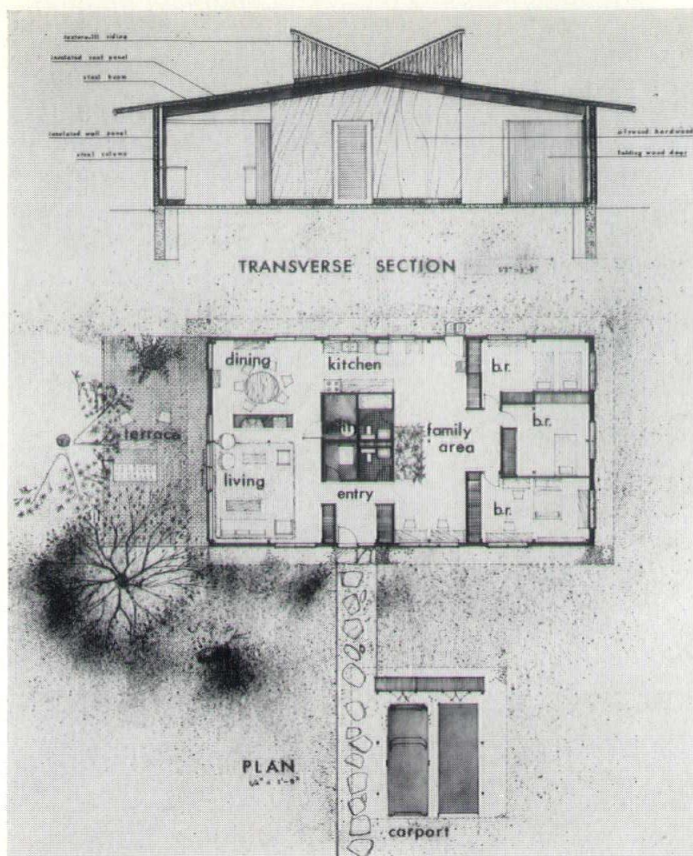
**13 ARENA TERRACE • CONCORD • MASS.**

**MODULAR  
STEEL-FRAMED  
HOUSE**

Conceived of as a test prototype to serve the residential needs of the upper-median suburban family, this house was erected in Concord, Massachusetts in 1957. The basic design requirements are listed below.

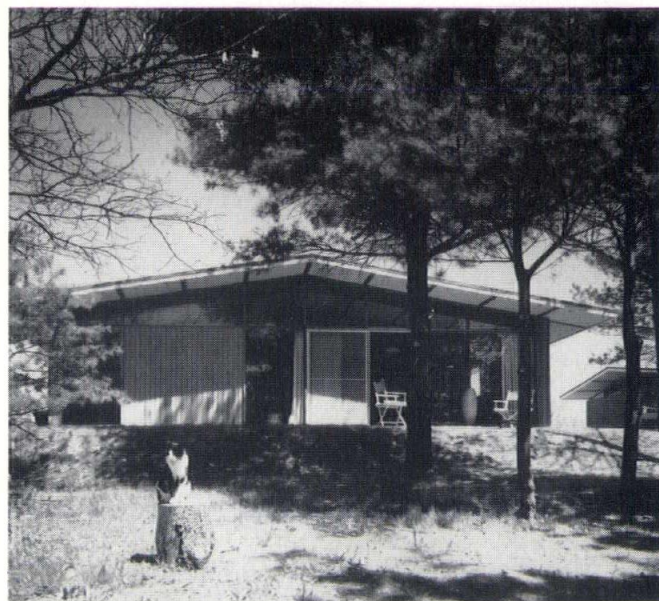
To provide a dwelling unit that would provide adequate space for the larger family tendency and yet be within the reach of the \$7,500—\$10,000 per year family income bracket.





Within the logical context of the structural system to provide both a wide degree of freedom in planning and to permit a satisfactory choice in selection of finish materials.

To promote and clarify "modern living" without confusing this process with high-pressure product advertising and "gadgetry." To provide rational aesthetic values and experiences in relating structure to plan, structure to materials, interior spaces to exterior and above all to provide a humanistic living environment. After a year of trial by usage this house appears to have met most of the design criteria. Despite the use of fairly expensive finishes the house can be duplicated and sold for about \$12 per sq. ft. on the basis of 1920 sq. ft. total floor area. The steel frame has proven to be a good sales point and the prototype is to be used in further suburban residential development in the greater Boston area.



To provide a rational construction system using proven "new" Materials where such use appeared to be sound architectural practice, with a heavy emphasis placed on time and labor savings.







•  
**Selected  
for  
Exhibition**

**Apartment House At  
353 Marlborough St., Boston**

Landscape Architects:  
**Sasaki, Walker and Associates  
Cambridge**

Owner-Builder:  
**Kay-Locke, Inc., Boston**

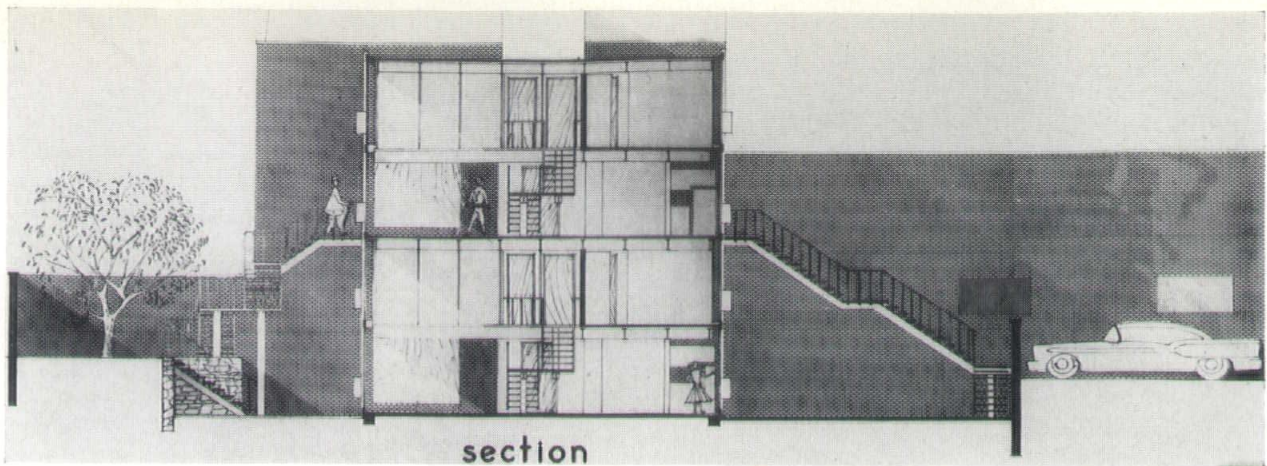
**KROKYN & KROKYN • ARCHITECTS**

**154 BOYLSTON ST. • BOSTON • MASSACHUSETTS**

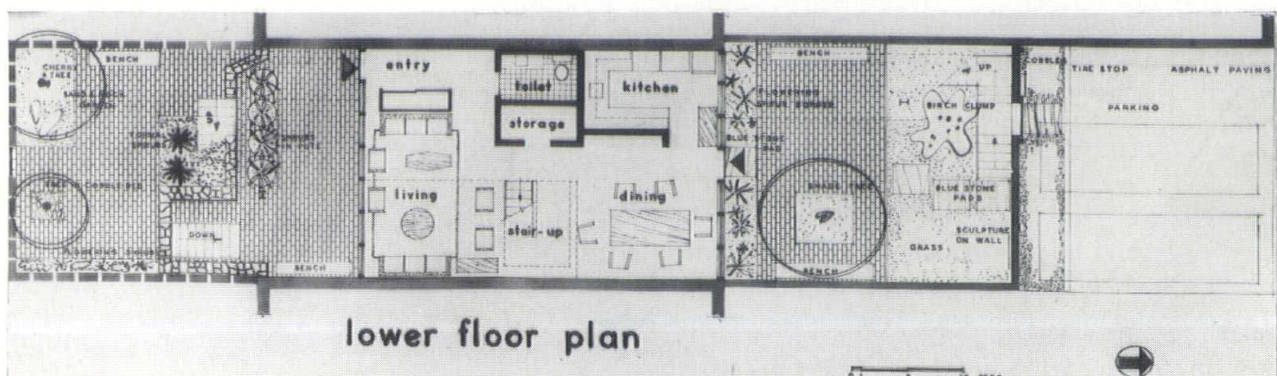
**PROBLEM:** Construct an economical apartment building suitable for luxury city living on a vacant row-house lot in the Back Bay section of Boston. The design might be a prototype for similar locations with an eye to urban rejuvenation. Economy essential but result must attract and hold a particular type of tenant.



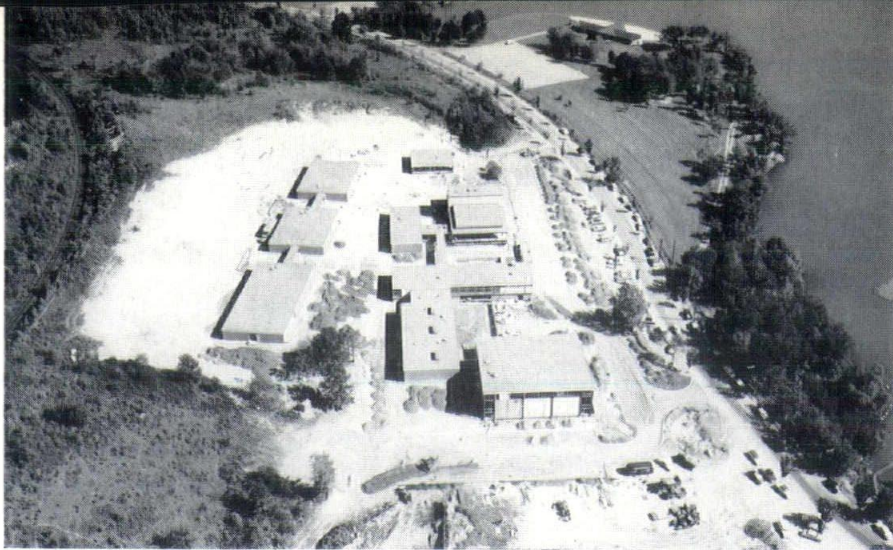




**SOLUTION:** High rise building economically unfeasible since elevator won't pay off here in less than eight stories and soil under existing bearing walls were only good for four. By avoiding conventional entrance and interior stairwell, we eliminate wasteful, unprofitable owner maintained space. By dropping first floor to grade of old basement, we put lower living area on same level with new gardens and upper apartment only one and a half floors above street. Set back front for distinction, for privacy and for partial summer sun shielding. Take advantage of south solar heat by zoning north and south exposures separately. Use air conditioners for ventilation and eliminate need for and cost of operable sash. Detailed carefully and will have structural steel exposed ceiling underside of plank sub-floor and one good brick wall. Shop fabricated north and south glass walls, clear in living area and obscure in bedrooms, circumvents building code regulations for masonry exterior walls. Heat by forced hot water with gas boiler on roof. Construct pristine geometry and color of front with drab bay windowed regimentation of adjacent structures. Cost was approximately \$15.00 per square foot. Both apartments tenanted.

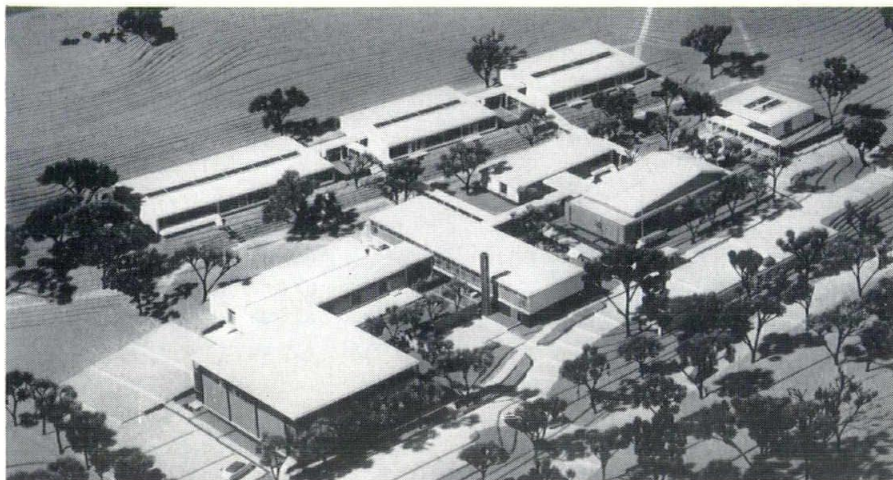






## SELECTED FOR EXHIBITION

# BANCROFT SCHOOL • WORCESTER • MASSACHUSETTS



## ARCHITECTS SMITH & SELLEW BOSTON - MASSACHUSETTS

In 1955, Bancroft, a 60-year old private school in Worcester, Mass., was suffering from the same intense growing pains experienced by the majority of American schools. Their two-story building was hopelessly inadequate and the situation promised to get progressively worse. A perfectly timed bequest of twenty-seven acres located in a suburb of Worcester provided the necessary go-ahead signal and an exceptionally ambitious building program was launched.

The building plan began with thorough research, based on the traditional Bancroft quality, of their program; attention paid to the individual student; the division of the school into four separate "little schools" — Pre-School, Grades K-1 and K-2 (ages 4-5), Lower School, Grades 1-5 (ages 6-10), Middle School, Grades 6-8 (ages 11-13), and Upper School, Grades 9-12 (ages 14-17); small classes with high student-teacher contact; classes of not more than twenty students; and the decision that ultimately the school would not grow beyond 400 students. The present total school body is 320.

The program is co-educational until the 8th grade, when boys leave at the end of the 8th grade for prep school, and girls are further prepared for either boarding school or college.

In addition to classroom buildings, other facilities have been provided. The science program has been greatly expanded to include the teaching of chemistry and physics as well as a general science and biology course. The workshop facilities include separate areas for both ceramics and jewelry. A greatly-increased athletic program includes full gymnasium, outdoor hockey rink, football and soccer field, baseball diamond and indoor rifle range and, in addition, the Pre-School has its own private play area.

Since the location of the new school is in suburban Worcester, it is necessary to transport the students to and from school by bus or private car, and therefore a full-capacity cafeteria-kitchen has been included. There is a 5,000-volume central library, immediately next to the cafeteria, and in addition, individual libraries within the Lower

**General Contractor**  
R. L. Whipple — Worcester, Mass.

**Structural Engineers**  
Goldberg & LeMessurier Associates — Boston, Mass.

**Mechanical Engineer**  
Gordon E. McNeil, Boston, Mass.

**Acoustical Engineer**  
Bolt, Beranek & Newman Inc. — Cambridge, Mass.

**Landscaping**  
Robert L. Mackintosh — Manchester, Mass.

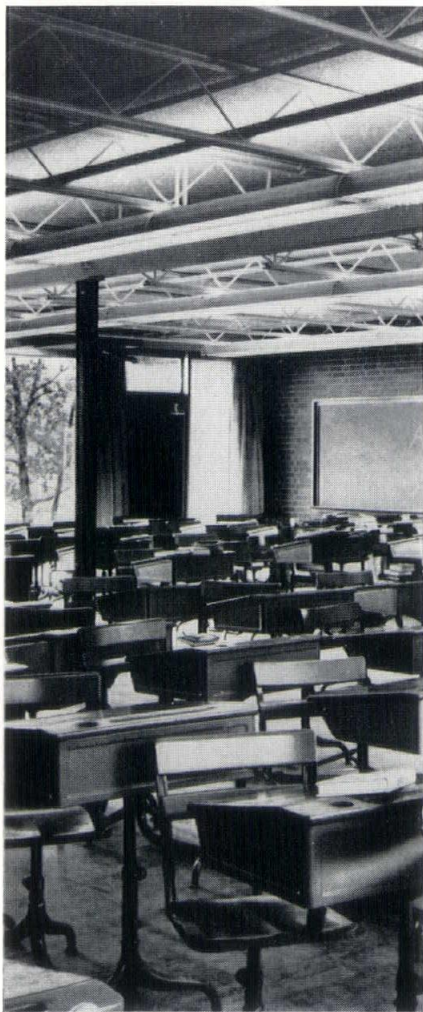
**Electrical Contractor**  
Electric Service & Supply Company — Worcester, Mass.

**Heating Contractor**  
Central Heating Company — Worcester, Mass.

**Plumbing Contractor**  
M. P. Holmes & Company — Worcester, Mass.

**Technical Data**  
Classroom buildings are slab on grade, pumice block bearing walls on 24' module, faced on exposed ends with mottled slate; roof is tar and gravel on 3' composition decking and open web joists. The Administration, Pre-School and Art-Science-Shop buildings are similar to classrooms in construction. Auditorium, Cafeteria and Gymnasium are steel columns and trusses. Exterior finish is a gray-brown brick, natural roughsawn tongue and groove siding, floor-to-ceiling glass walls. Heating is by baseboard radiation in all buildings except classrooms which are heated by unit ventilators. In the Pre-School building, radiant panels are used to supplement both unit ventilators and baseboard radiators.





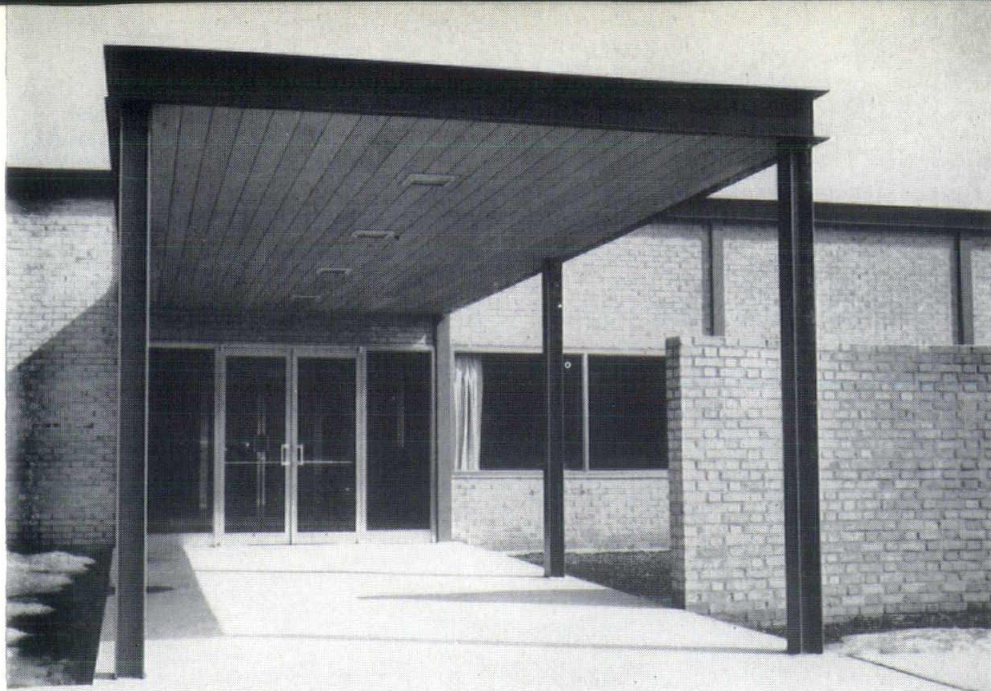
and Middle Schools have been incorporated into the Activity and Visual Aids Rooms. There is a 250-seat auditorium with full dramatic stage and, immediately next to it, a workroom, prop and costume storage room. The music room, also immediately next to the stage, is designed for a chorus of 60 and for future use by a band and/or orchestra.

In designing the school, general facilities were kept closest to the road for reasons both of servicing and accessibility for the general public, since Bancroft intends to continue their policy of lending their auditorium and gymnasium facilities to various civic groups. Classroom buildings — one for each of the three schools — are grouped high and at the rear of the site. The Pre-School's program being more informal, it was felt that that building could be isolated. In arriving at the campus plan, the Pre-School serves to visually anchor the plan (which stretches 500' along the road) at one end while the gymnasium serves in a similar capacity at the other.

The architects were given exceptional freedom in designing these facilities for a typical New England private school. In this case, the Board of Trustees broke the mould and did not insist on a Georgian or any other rigidly traditional approach. Principal factors influencing the design were the steep site, orientation problems and the intimate nature of the program. Small scale open courts create a pleasant harmony with the over-all scale of the buildings. Accenting the clean, functional lines of the structures is the precise and ingenious use of detail, color and texture . . . exposed wood and steel finished in "Rolls Royce" blue . . . the dramatically colored bow-tie design on the bus shelter and the brass flagpole fasteners identical to those used to hold bricks together on old Boston buildings.

The keynote of this program was taste plus careful planning within a limited budget, and the total cost, excluding landscaping and decorating was a surprisingly low \$900,000 for all nine structures.





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**SELECTED  
FOR  
EXHIBITION**

# CRAFT CENTER

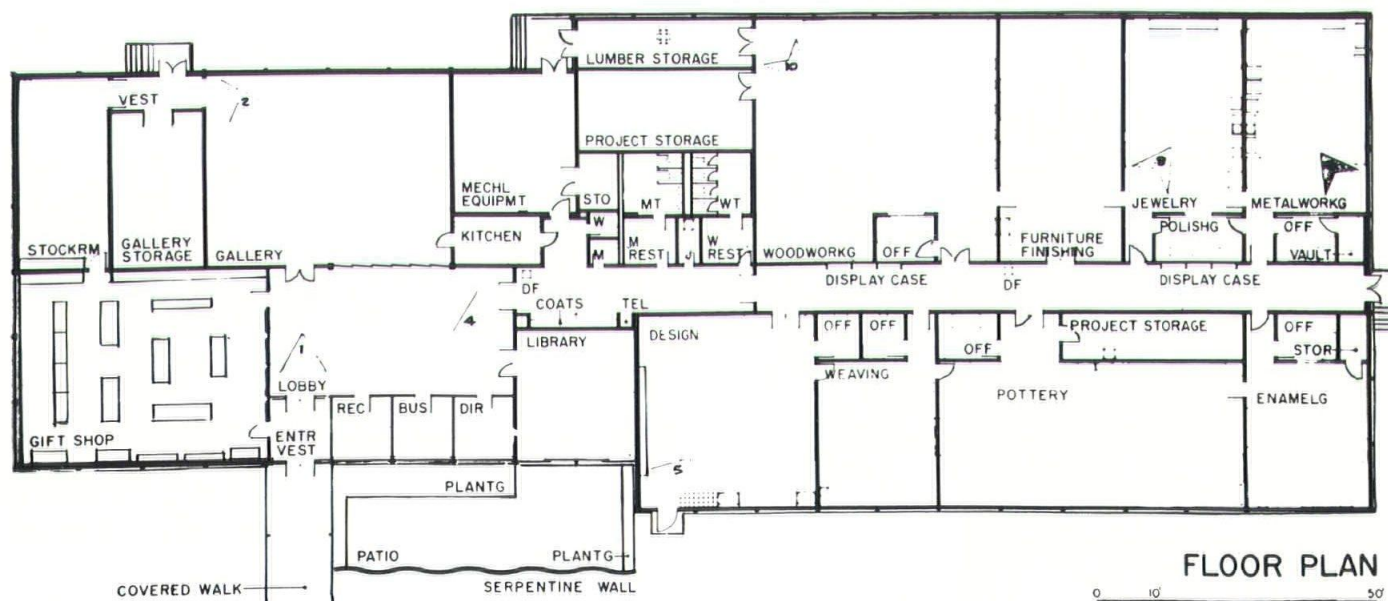
WORCESTER - MASS.

**ARCHITECT**  
**DOAK MARTIN**  
WORCESTER, MASSACHUSETTS

To provide facilities for the employment society of Worcester for the instruction of adult classes in the hand crafts and the use of the machines and tools employed by the craftsman. To provide administration facilities and exhibition areas for special displays and traveling shows relating to the crafts. The workshops are separate from the administrative and public areas but so situated as to

regulate the flow of students and visitors by way of the exhibition gallery and gift shop.

The workshops were individually designed for the specific craft to be practiced in that area and include such facilities as chalkboard, tackboards, shelves, cabinet storage for the various projects and sinks and drainboards.



**FLOOR PLAN**



The gallery subfloors and walls are constructed of wood to facilitate the attachment of special displays. The battens are removable shelf standards. Burlap covered plywood panels are removable and interchangeable. Spotlight panels located in the luminous ceiling are removable and interchangeable with the luminous panels to provide flexible accent lighting.

The Lobby may be used in conjunction with the gallery for the overflow of large exhibitions and audiences attending the various public functions (craft demonstrations, lectures and concerts) held in this area by means of large pivoting doors located between these areas.

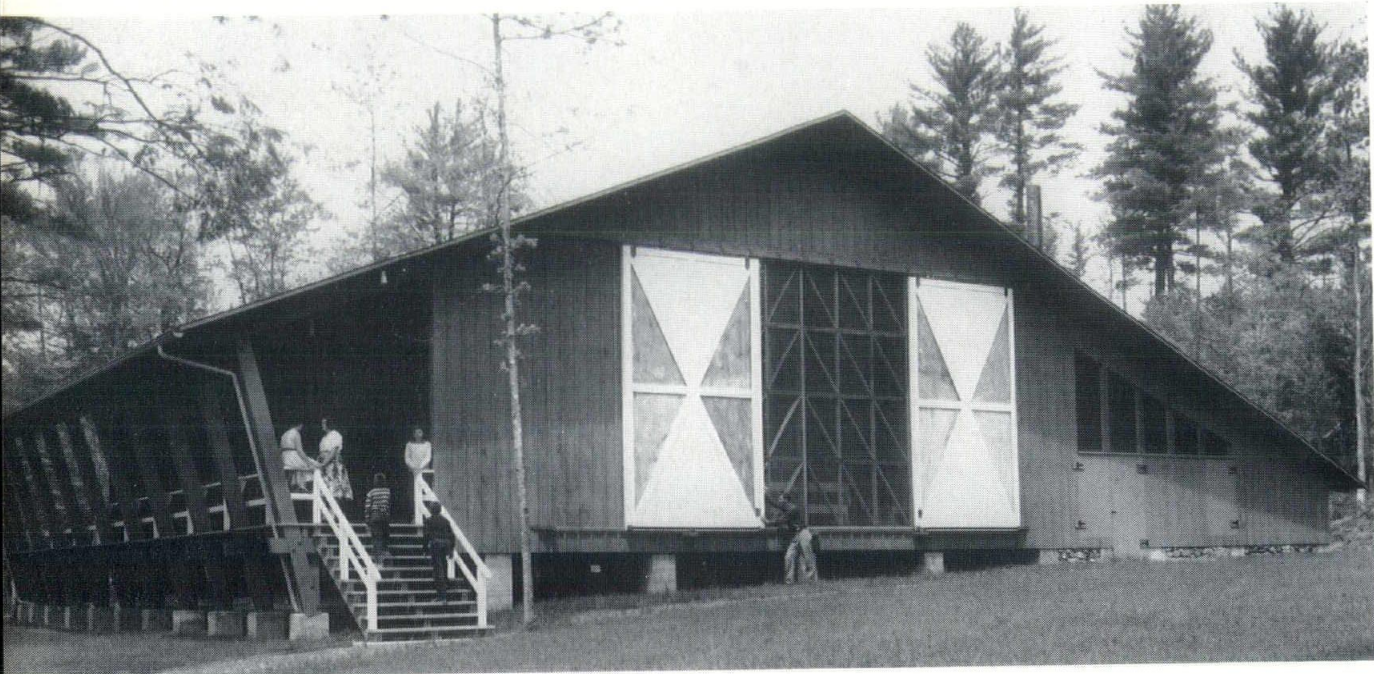
The center is constructed of concrete foundations, concrete floor slab on gravel fill, steel frame, exterior walls of concrete tilt-up slabs or brick veneer, interior partitions of gypsum board on wood studs with matched board dados in the workshops and walnut veneered plywood panels in aluminum frames in the administrative and public areas; the roof is composition built up on poured gypsum roof deck. The lighting is accomplished by the use of suspended fluorescent fixtures and luminous ceilings augmented by a continuous strip of obscure corrugated plastic around the perimeter of the workshop area and plastic skylights in the roof. Heating is by means of gas fired furnaces supplying forced hot air. Administrative offices, library, lobby, gallery and gift shop are air conditioned.

**COST:** (Exclusive of landscaping, furnishings, fees, etc.) \$230,000.00. **Area:** 20,000 square feet.





**SELECTED  
FOR  
EXHIBITION**



**ARCHITECTS**

**RICHMOND & GOLDBERG • BOSTON, MASSACHUSETTS**

*Camp Kingswood*

**BRIDGTON  
MAINE**



The architectural problem on this design job called for low cost construction of a recreation building. The building was to be located on a typical camp site remotely located on a picturesque lake shore in Maine. A boy's and girl's summer camp building capable of multiple uses added to the problem.

In consideration of the low cost requirement the building was therefore designed to be constructed of local materials and by employing farmer carpenter-builders. The framing is of laminated common timbers and the siding is rough sawn pine boards with 1" x 3" battens.





Incorporating a circular hood fireplace in the center of the Arts & Crafts room allows the room to be used for indoor campfire gatherings during inclement weather.

The stage has a sliding rear wall door (barn door style) which opens wide to permit outdoor or indoor entertainment.

The wide porch area can accommodate ping-pong tables and similar activities under cover.

Although this project is not typical of the glamour associated with architecture, the Boston Arts Festival Award Jury rightfully selected this design to be included among the 1959 displays.



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**SELECTED  
FOR  
EXHIBITION**  
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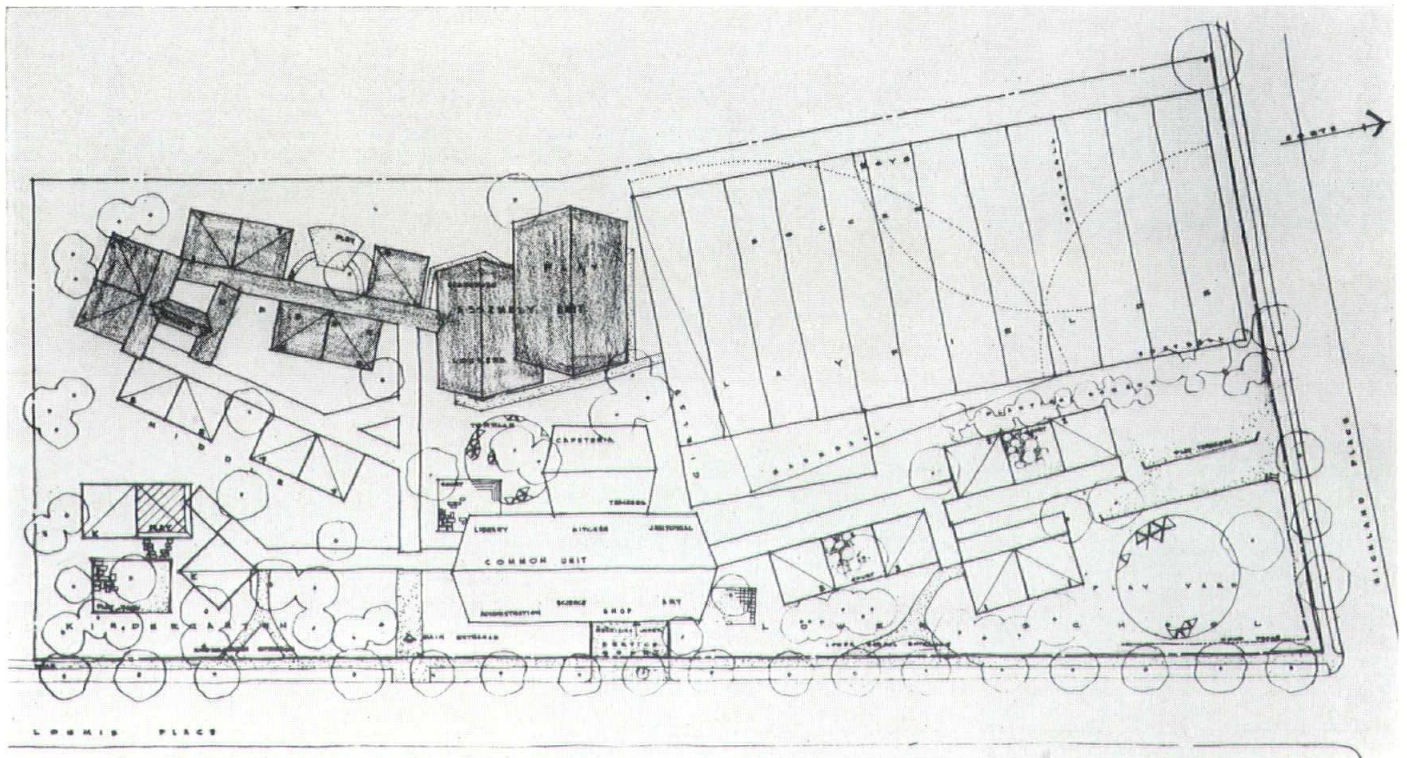
**The  
NEW FOOTE SCHOOL**

Loomis Place . New Haven

ARCHITECTS

**CARLTON GRANBURY and  
PERKINS & WILL**

New Haven . Conn.



This project provides for moving an established school to a new location, by stages.

The program requirements, educational philosophy, and the rolling wooded site suggested decentralized units as the best solution. Each classroom is in effect a separate building with its own heating plant.

The units are connected by covered walkways to a central gymnasium and assembly facility, and to future administration building and additional classroom.





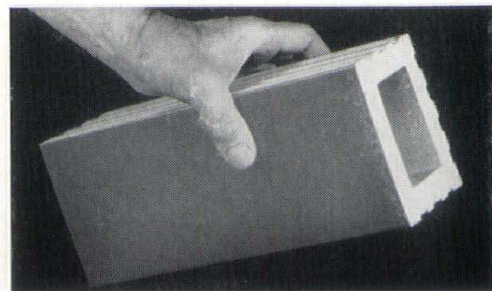
View of the new Westwood, Massachusetts, Senior High School cafeteria showing sanitary Natco Vitritile walls.

## Design complete sanitation into your next school cafeteria

*Everything* about the new Westwood, Massachusetts, Senior High School cafeteria reflects spotless sanitation. Not only the sparkling-clean food handling and processing and serving equipment—but the very walls themselves! That's because all walls are constructed of sanitary ceramic glazed Natco Vitritile. And, because Vitritile's facing is of a durable, moisture-proof ceramic glaze, it's easy to *keep* clean all the time. It requires only occasional cleansing with common soap and water.

Vitritile comes in 22 different and attractive colors to fit any color scheme. The colors—and the finish—are permanent. Cannot stain or discolor. Never lose their original brilliant appearance.

For complete information on this—and other Natco structural clay tile products—write for a free descriptive, illustrated "full line" catalog.



Natco Vitritile is a completely fireproof, load bearing, genuine fire clay building material that is also ideal for hallways, stairwells, locker rooms, rest rooms, classrooms and many other uses in the modern school.



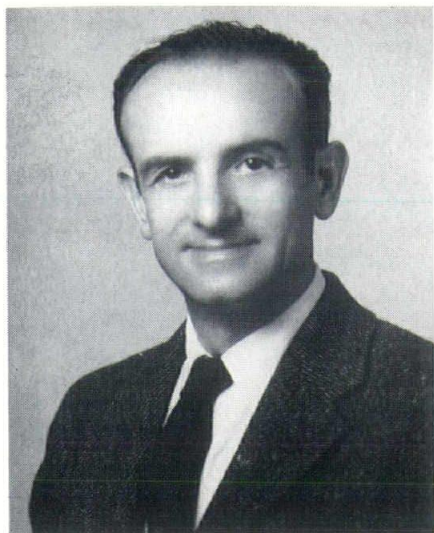
## NATCO CORPORATION

GENERAL OFFICES: 327 Fifth Avenue, Pittsburgh 22, Pennsylvania  
 NEW ENGLAND SALES OFFICE: 20 Providence St., Boston 16, Mass.  
 OTHER BRANCH SALES OFFICES: Chicago, Detroit, Houston, New York, Philadelphia  
 Pittsburgh, Syracuse, Birmingham, Ala., Brazil, Ind.  
 IN CANADA: Natco Clay Products Ltd., Toronto





## ARCHITECTURAL TRENDS - - PART II



*Jan Reiner, Architect*

The past fifty years of house building in the USA reveal definite trends toward a new concept of living and building. Basically, these trends fall into two categories: sociological and technical.

*This is the second of a series of articles by Architect Jan Reiner. He is a graduate of Harvard University and a recipient of an A.I.A. fellowship; he spent two years as a student with LeCorbusier in Paris and another two years with Ole Bang in Norway.*

The underlying cause of the sociological change is the emergence of a new family structure. The size of the modern family and its mode of livelihood are relatively new. With fewer children, the modern family does not aspire to live in the "old family house". That house is obsolete. Its large, high rooms — once gracious and stylish — are "dated" and costly to maintain.

The new ideal of today's servantless and money-conscious family is a streamlined house in which the household chores take the minimum amount of time and effort. Hence, modern homes are equipped with a variety of labor-saving devices and automatic equipment which at times account for almost one-half of the building budget. A modern kitchen is a case in point. Even small

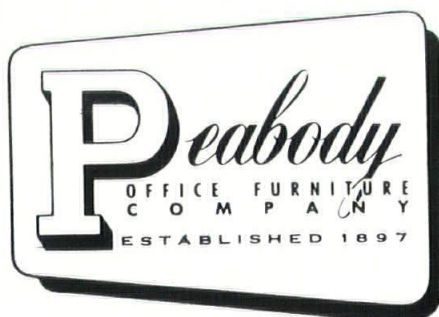
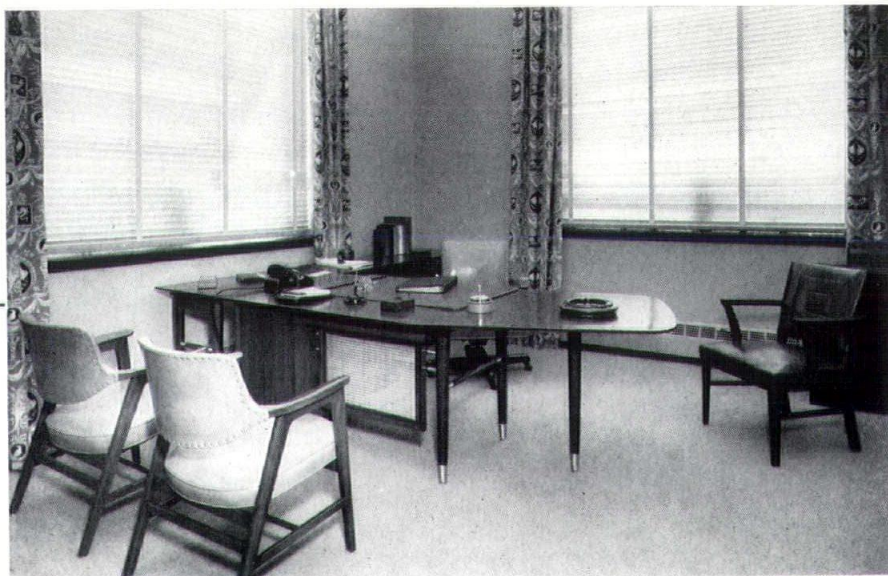
merchant-built homes today can boast up-to-date built-in ovens, counter-top ranges, and even washer-dryer combinations.

The sociological trend is quite obvious in the new concept of home ownership. Owning a home is no longer conceived as a luxury reserved for a wealthy minority, but is recognized and emphasized as a necessity for the majority of the population. This trend is endorsed officially by various forms of legislation and tax benefits. In particular, the ownership and financing of small and medium-sized homes has been encouraged and expedited by the availability of long-term, low-cost mortgages, either private or federal. Contrasted with the hard-to-get, complicated and costly mortgage structure of the past, modern home financing and merchandizing amounts to a financial revolution.

The new technical trend is the reflection of a development, centuries old, leading away from unskilled and manual labor toward complete industrialization of building activities. It points toward the use of automatic equipment in which

(Continued on Page 50)

ONE OF THE EXECUTIVE OFFICES AT  
HOLLISTON MILLS, NORWOOD, MASS.  
*Another Peabody installation.*



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## NEW RHODE ISLAND BOARD

*Pictured at right*

New members of the State Board of Examination and Registration of Architects were sworn in at the State House today by Robert L. Gammell, left, legislative counsel to Governor Del Sesto. The architects, left to right, are Albert Harkness of 5 Cooke Street, Providence (reappointment); S. Wesley MacConnell of 1069 Cowesett Road, Warwick; D. Thomas Russillo of 66 South Hill Road, Cranston; Conrad E. Green of 107 Forge Road, Warwick; and Lloyd H. Turoff of 352 Nayatt Road, Barrington. Their terms expire April 30, 1964.



## SCHOOL NAMED FOR BISHOP

A September opening date is slated for the new Bishop Hendricken High School at Warwick, Rhode Island. The diocesan school for boys will cost approximately \$1,333,000. Architects are Charles A. Maguire and Associates. Contractor is O. Ahlborg and Sons, Inc.

## OPEN NEW OFFICE

Fred S. Dubin Associates, Consulting Engineers of Hartford, Connecticut recently opened a Consulting Engineering office in San Juan, Puerto Rico, with Victor M. Garcia in charge, for the practice of Mechanical, Electrical, Sanitary and Structural Engineering.

Among the interesting projects in Puerto Rico and the West Indies now being handled by Fred S. Dubin Associates are a new Hotel in the British Isle of St. Kitts, which includes a full power generation plant, a distilled water installation system, and complete air condition-

ing system for 110 rooms; a 40-room addition and new Night Club for the Virgin Isle Hotel in St. Thomas; the complete mechanical and electrical system for the new 120-room Coral Beach Hotel in San Juan, a new Library in Mayaguez, Puerto Rico; San Ignacio Residence Hall; and new Movie Studio outside of San Juan, Puerto Rico.

The Firm has been retained as consultants for the new \$12,000,000 Medical Center at the University of Puerto Rico, and for a new Industrial Hospital, part of a \$46,000,000 Health Center in San Juan.

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BUILDING MATERIALS



# Bulletin DIGEST

AS COMPILED BY M. PATRICIA WILLIAMS, ASSOCIATE EDITOR



## CIVILIAN DEFENSE AWARD

Two Massachusetts men, Springfield contractor Carlo Sapelli and Magna Film Productions President Robert Berman, recently received Civil Defense Merit Awards at the office of Massachusetts Governor Foster Furcolo. Photo, left to right, Robert Berman, Governor Furcolo, Carlo Sapelli, and Mass. Civil Defense Director Colonel John J. Devlin. Mr. Sapelli was honored because he donated labor and materials for the construction of a Family Fallout Shelter in North Wilbraham, Mass. Mr. Berman's firm produced a documentary film which demonstrated the shelter under "fallout" conditions. The film was carried by many of the state's television stations, thereby reaching many persons who ordinarily would not have occasion to view the actual structure.

## NORDBLOM COMPANY



**SOLD FOR \$675,000.** The Salada Building, corner of Stuart and Berkeley Streets, Boston, was sold recently by Salada-Sheriff-Horsey, Inc. to Thomas J. Diab & Son. Rodger P. Nordblom, Vice President of Nordblom Company, Realtors, served as broker in the transaction. The historical building will be renovated for modern office space. Nordblom Co. has been appointed as rental agent.

## DAVID O. MCKINLEY ELECTED EXECUTIVE VICE PRESIDENT OF ABERTHAW CONSTRUCTION CO.

The Board of Directors of Aberthaw Construction Co. has announced the election of David O. McKinley as Executive Vice President to assume active management of the firm.

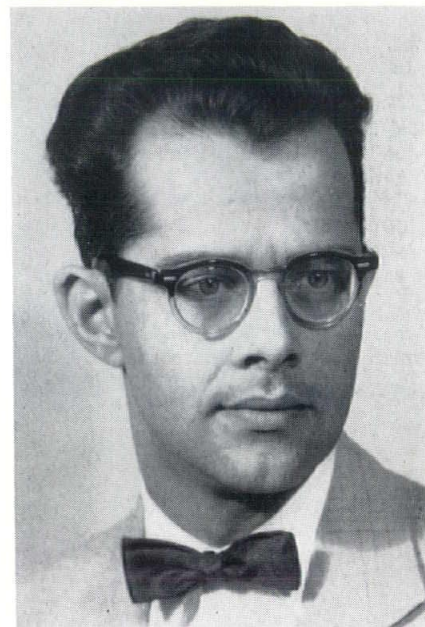
Mr. McKinley joined Aberthaw in 1955 as Chief Estimator and was subsequently appointed Vice President. In the construction field for the past seventeen years, Mr. McKinley was previously employed by the Charles Logue Building Company and Turner Construction Co. He received his degree in Civil Engineering from The Pennsylvania State University and served as an officer in the Army during World War II. Mr. McKinley and his wife, the former Helen Davis, live at 5 Cushing Street, Hingham, Mass., with their six children.

For over half a century, Aberthaw Construction Co. has been a pioneer and leader in its field. The facilities most recently "Built by Aberthaw" include: the award-winning plant for Polaroid Corporation on Route

128; the new Charterhouse Motor Hotel in Waltham, Mass.; and Avco Research & Development Park in Wilmington, Mass.; the Spencer Laboratory for Raytheon Manufacturing Company in Burlington, Mass.

Among the major projects presently under construction by Aberthaw are: Pleasure Island in Wakefield, Mass., a family recreational center designed as the largest man-made tourist attraction in New England; the Canada Dry plant in Waltham, Mass.; and the new South Shore Plaza, shopping center, Braintree, Mass.

## RELIABLE HARDWARE



The appointment of Waller W. Elliott, Jr., A.H.C. of 25 Wilson Ave., Braintree, Mass. to the position of Contract Department Manager of the Reliable Hardware Co. has been announced by David H. Eskin, A.H.C., Vice-President.

Mr. Elliott has served for eight years with Reliable Hardware Co. as Sales Engineer. Prior to this time, he was employed by the Yale & Towne Mfg. Co. of Stamford, Connecticut. Mr. Elliott is a graduate of the University of Bridgeport. He is Cub-Master of Pack 40 in Braintree, Mass. Mr. Elliott is a past president of the N. E. Chapter, American Society of Architectural Hardware Consultants.

## GEORGE HEAD, ARCHITECT

announces the opening  
of his office at  
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## MISS MASS.



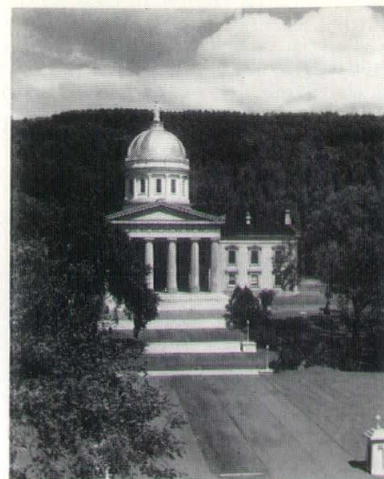
Miss Patricia Nordling, Miss Massachusetts 1959, was a guest of the Norwood Junior Chamber of Commerce at the Norwood Lions Club Exposition held at the Norwood Armory recently. Miss Nordling took time out of a busy schedule to visit with Mr. Vincent Iannone of Korslund, LeNormand and Quann, Architects, who had a display at the Exhibition. Left to right, Mr. Iannone, Miss Massachusetts, and Gilmore Freeman, President of the Norwood Jaycees.

## GUSTIN CORPORATION



Topping the nation's list of best salesmen and representing Massachusetts, Kenneth D. Crumrine, sales engineer with the Gustin Corp., 95 Cross St., Winchester, was awarded recently a Mexican vacation for his outstanding sales achievements for Tectum Corp., manufacturers of insulating roof plank.

Tectum, of Newark, Ohio, represented regionally by The Gustin Corp., named Crumrine as one of top 20 salesmen nationally in 1958 and the only Bay Stater.

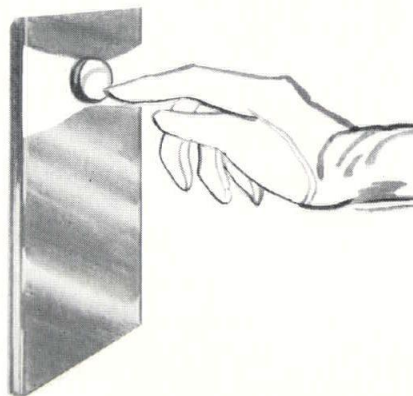


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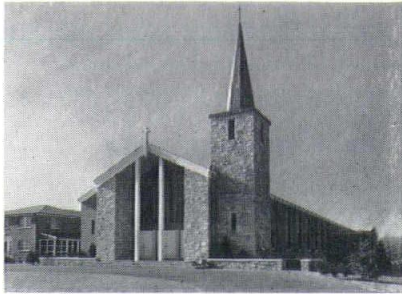
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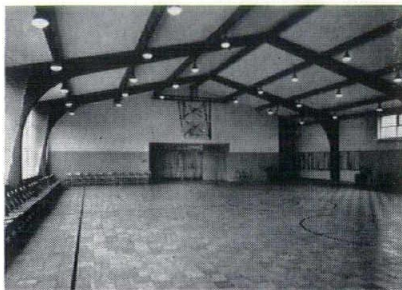


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## INCREASE IN STEEL BOOKING

The fabricated structural steel industry rebounded in March by recording the first shipment upturn in the last six months. According to reports compiled by the American Institute of Steel Construction, March shipments amounted to 260,490 tons, the highest this year and 21 per cent better than the previous month. Total shipments during the first quarter of 1959 were 700,877 tons, 25 per cent below the same period last year.

March bookings totaled 254,773 tons, a drop of 13 per cent from February but almost 59,000 tons better than the corresponding month of last year. Total tonnage booked during the first three months of 1959 amounted to 784,924 tons, jumping 44 per cent over the corresponding period a year ago.

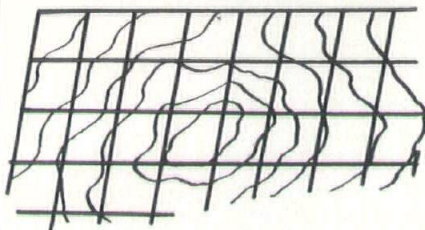
The AISC reported backlog as of March 31 at 1,873,422 tons of future work. Of this amount, 1,146,149 tons are scheduled for fabrication during the next four months ending July 31.

A summary of the monthly bookings and shipments is shown below:

	Total Tonnage Entire Industry 1959	Total Tonnage Entire Industry 1958	Percent Change	Total Tonnage Entire Industry 1954
<b>BOOKINGS</b>				
January	235,784	162,158	+45	221,156
February	294,367	185,646	+59	343,771
March	254,773	195,970	+30	229,885
Total	784,924	543,774	+44	794,812
<b>SHIPMENTS</b>				
January	224,260	316,742	-29	310,786
February	216,127	282,576	-24	320,906
March	260,490	336,598	-23	360,428
Total	700,877	935,916	-25	992,120

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**CABOT, CABOT & FORBES CO.**

Cabot, Cabot & Forbes Co., one of the leading real estate development organizations in the country, announced today that R. John Griefen has joined the staff as Vice President in charge of the expanded Industrial Department of the Real Estate Division.

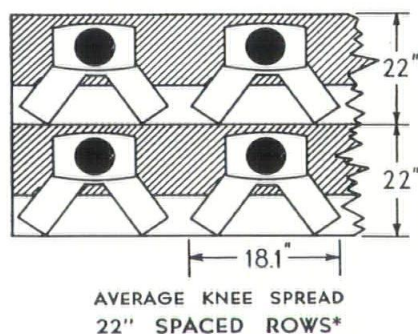
Mr. Griefen has an extensive background of experience in the industrial real estate field. He was formerly associated with R. M. Bradley &

Co., Inc., as Vice President in charge of their Worcester office from which he operated throughout New England. For two years, Mr. Griefen served as the Deputy Commissioner for the Massachusetts Department of Commerce and, in this capacity, was actively engaged in attracting new industry to the Commonwealth. Previously, he was associated in a sales and executive position with a lumber company in central Massachusetts.

At Cabot, Cabot & Forbes Co., Mr. Griefen will be responsible for

the overall development of their thirteen planned parks for business and industry currently located on the eastern seaboard and the establishment of new centers. The company, which combines integrated Real Estate, Engineering and Construction Divisions, has achieved a position of pre-eminence in the real estate field. Over 100 of the leading business and industrial concerns in the country have utilized the well-known Cabot, Cabot & Forbes Package Plan for site location, land preparation, building design, engineering, construction and financing. The company, in the past few years, has embarked on a number of new phases of operation including: hotels, family recreational parks and shopping centers. A native of Chicago and a graduate of Northwestern University, Mr. Griefen is a veteran of World War II, having served in the Tenth Mountain Division (ski troops) and in the Philippines and Japan. He presently resides in Worcester with his wife, the former Faith Adams, and three boys.

## Research Report on ADVANTAGES OF 24" GYM SEAT SPACING

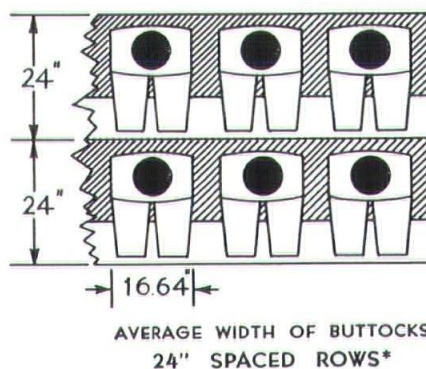


Average adults measure 23.4" from buttocks to knee cap. Hence they can sit comfortably with knees together in 24" spaced seats. Since the average width of buttocks is only 16.64", 11 people can sit on a 192" seatboard with 24" spacing.

This 10% increase means 10 rows of **comfortable** 24" spaced seats have the same actual capacity as 11 rows of **cramped** 22" seats. Further, the original cost of 10 rows is 3% less than 11 rows, and they take up 5 1/3 square feet less floor space per 16' section.

Write for your **FREE** copy of this complete, thought-provoking study on increased capacity and comfort in gym seats before designing your next school.

Few people can sit in gym seats with 22" spacing between rows without spreading their knees. (Even 15 year old children average 22.4" from buttocks to knee cap.) Since an average knee spread of 18.1" is necessary, only 10 people can sit on a standard 16' (or 192") long seatboard with 22" spacing.



### ROYAL BARRY WILLS

Recently, Royal Barry Wills addressed the Cleveland Chapter of the American Institute of Architects at the Cleveland Scientific and Engineering Center.

The subject of his talk was "Trends in House Design." He said, among other things, that the demand at the present time seems to be for a traditional sort of a house with a pitched roof with large windows facing the sun or strategic views. The home builder of 1959, says Mr. Wills, seems to want the best of the old combined with the best of the new.

He states that many of the foremost architects of the day are departing from the clinical type of modernism, that the old shoebox modern house is the thing of the past. Even many of the new larger buildings like the new Hartford Museum by Edward Stone is quite reminiscent of the Doges Palace in Venice, Philip Johnson's New Harmony Shrine owes its inspiration to Hindu temples; Banque, Lambert, Brussels, designed by Skidmore, Owings & Merrill, with a rhythmical facade with all the richness of an Italian palazzo seen in *Time*, April 27, 1959.

Mr. Wills believes that architecture should be for the people. He believes that all architecture should be regional, that is, houses

(Continued on next page)



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\* Drawings not to scale



#### ROYAL BARRY WILLS — Cont.

or buildings should look as if they belonged where they are built.

He believes that outdoor living is important but in our climate he thinks a house is more important to live inside of than outside of; also 90% of his clients have summer houses anyway.

He believes that houses should be functional and planned to fit the family needs, but he does not believe that it is right in so doing to ignore the vast heritage of the past.

He believes that proper house design is a triumph of mind over money, when you can do it.

He believes an architect should design houses for his clients to live and love and be happy in, not as a monument to himself.

In domestic work, Mr. Wills says that there has been a definite swing away from the ranch house and the split level house and recent polls taken by the largest consumer magazines indicate a decided preference for the Colonial.

#### MODERNFOLD

New Castle Products, Inc., manufacturers of MODERNFOLD folding partitions, has announced the formation of THE MODERNFOLD COMPANY in Wellesley Hills.

Principals of the new firm are Joseph Lovegren, Jr. and Donald E. Stelle, Jr., and they will sell and service Modernfold on the commercial, architectural and institutional levels in Greater Boston and eastern Massachusetts.

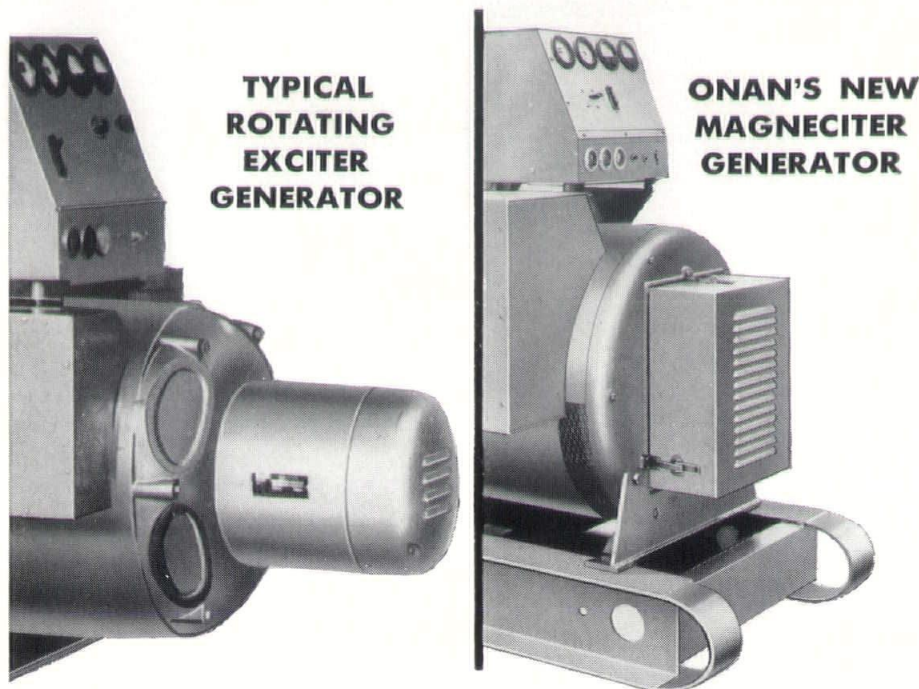
#### VERMONT STEEL CORPORATION

Heavy steel framework has been rising at the plant of the Vermont Structural Steel Corporation in Burlington to provide better and larger facilities for the fabrication of heavy bridge beams, and to meet the need of the expanding interstate highway system. Completion is expected this month. The building will permit the firm to work under cover on jobs that were formerly done outdoors, resulting in more efficient, uninterrupted production.

#### LIFE INSURANCE COMPANY

The new Berkshire Life Insurance Co. building at Pittsfield, Mass. is reported to be coming along on schedule. Official opening ceremonies will be held this coming Fall. Construction is by the Gilbane Building Company of Pittsfield.

## THE "NEW LOOK" IN GENERATOR DESIGN *on large Onan gasoline and diesel plants*



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New Magneciter generators are now standard equipment on all Onan Electric Plants of 100, 125, 150, 175 and 200KW, as well as on many smaller sizes. A choice of Diesel or gasoline engine power is available on most Magneciter-equipped models. Complete specifications on any or all Onan units will be sent on request.

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EWEN-KNIGHT Company, Laboratory Building, East Natick Industrial Park  
**ARCHITECTS**, Samuel Glaser Associates, Boston, Mass.

**DEVELOPERS**, Cerel-Perini Associates Inc., Framingham, Mass.

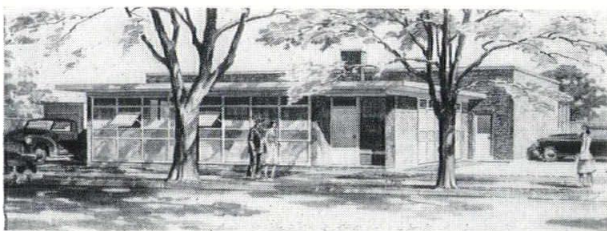
**ELECTRICAL ENGINEERS**, Greenleaf & Wong, Cambridge, Mass.

**ELECTRICAL CONTRACTORS**, Ostrow Electric Company, Worcester, Mass.



Shown above is the new Laboratory Building erected at East Natick Industrial Park, Natick, Mass. for the fast growing Ewen-Knight Company of Boston. Electrical work for this intricate laboratory called for carefully planned programming.

*Entire Electrical Installation by Ostrow Electric Company*



## OSTROW ELECTRIC COMPANY

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### YORK DIVISION OF BORG-WARNER — STATLER INSTALLATION

BOSTON — The first installation of the revolutionary new Three Pipe Hi-I air conditioning and heating system developed by the York Division of Borg-Warner Corporation will be in the Statler-Hilton Hotel in Boston.

The new system was first introduced to the industry at the International Heating and Air Conditioning Exposition in Philadelphia in January and has since attracted considerable interest from architects and engineers as it toured the country with the York Cavalcade of Products.

Hilton and York executives staged a joint announcement and demonstration party at the hotel for representatives of the press and other special guests in honor of this "first" for the two organizations.

Donald B. Stanbro, General Manager of the Statler-Hilton, acted as host and told the group that the new system will continue the long list of services that has kept his hotel in the forefront of America's modern

(Continued on next page)



*INSTRUCTING THE DEAN — Henry M. Haase, President, and J. J. Floreth, Vice-President and Director of Services, York Division of Borg-Warner Corporation, show William T. Alexander, Dean of the Undergraduate School of Engineering, Harvard University (l. to r.), the operation of York's new Three-Pipe Hi-I heating and cooling unit. The scene took place in Boston during the announcement that the new system will be installed in the 1,400 room Statler-Hilton Hotel there.*



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first-class hotels. He recalled that the Statler-Hilton was the first hotel of any size to provide a radio in each room and one of the first to install television in each room.

"You can, therefore, see how natural it was for us to train our sights on air conditioning for each room. We all know that hotel air conditioning is no longer new. All first-class hotels have had it, in varying degrees, over the past few years and no one would think of building a new hotel without it, but it takes a bit of doing to put it into a large hotel already built.

"However, the outstanding feature of our York installation does constitute a 'first' of some magnitude — it is the first installation in a hotel and, I believe, in a multiple-story building, of the new Hi-I System, just perfected by York, which gives the guest *complete* control of the temperature in his room, simply by a flick of a dial," Stanbro said.

Henry M. Haase, York President, told the group that the old Mark Twain saying "Everyone talks about the weather, but no one does anything about it", was no longer true. "We believe there is a way to

do something about it, and so do the Hilton people", he said.

J. J. Floreth, Vice-President and Director of Services for York, said that: "The single most important feature of this installation is that it eliminates complaints. Some like it hot, some like it cold. Guests want just exactly what they want. Through York and Borg-Warner research, we have brought out a system that will pinpoint the individual guest-room requirements. One guest can have it hot; the next-door guest can have it cold; or they can have any shade in between."

Floreth said that the system derives its name from the three pipes — hot water, cold water and return — that connect to a high-pressure induction unit in each room. Each room unit has instant access to the temperature water demanded by the thermostat 12 months a year and each is supplied with 100 per cent fresh air from the outside.

After being filtered, this fresh air is either humidified or dehumidified and warmed or cooled as needed. In addition to its complete flexibility, the Three Pipe Hi-I system "represents a 15 to 20 per cent reduction over comparable operating costs", Floreth said.

Joseph P. Binns, Vice-President in charge of the Eastern Division of Hilton Hotels Corporation and President of the Waldorf-Astoria Corporation, told the guests that this is the fifth installation York has made for Hilton hotels.

"I think it is of particular interest to know that from our past experience we have discovered that York can and does assemble a great many parts of the system in the basement of the hotel and then quickly installs the equipment in the guest room — thereby minimizing the loss of guest-room revenue by the hotel.

"We have had a great deal of experience with the York people in Chicago and elsewhere. Of great importance to us was the understanding which we know they have of our problems," Binns said.

Among those given credit for playing an important part in the design and installation of the new Hilton air conditioning were Jaros, Baum and Bolles, New York consulting engineers; C. H. Cronin Company, Boston consulting engineers; Harrington Brothers, Medford, Mass., sheet metal construction; insulation by P. S. Thorsen Company, Boston, and controls by Minneapolis Honeywell Corporation.



## WHY TAKE A CHANCE?



### ROOF WITH THE BEST: Koppers Coal-Tar Pitch Built-Up Roofing

**REALLY WATERPROOF . . .** Coal-Tar Pitch is the only roofing material that doesn't soak up water: even on pond roofs!

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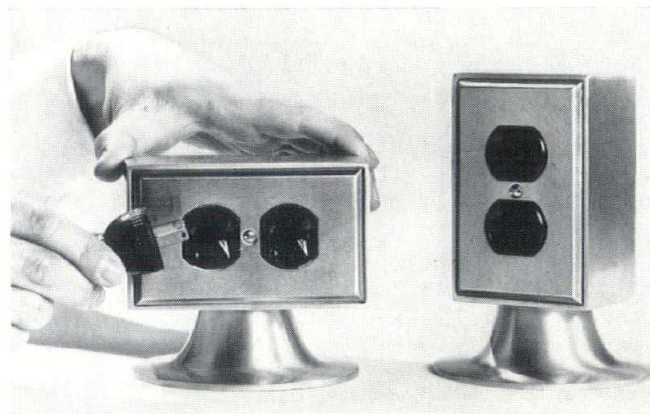
### NEW TURRET RECEPTACLES MADE OF SATIN ALUMINUM

Convenience and appearance are two advantages of the attractive new turret receptacle for laboratory, office or plant, just added to the line of specialized lighting equipment available from The Simes Company, Inc., of College Point, N. Y.

Cast of satin-finished aluminum, the new device is available in a horizontal design four and three-quarters inches tall and a vertical design six and a half inches tall. Bases for both models measure four and three-quarters inches in diameter.

The turret can be mounted on floors, tables, desks, or wherever a convenient receptacle is needed. It is attached by threads in the base to three-quarters or one-half inch conduit, or fastened with screws.

The turret is supplied with or without three-wire grounding duplex receptacles, 15A, 125V, on one or both faces. When only one face of the turret is used, the back face is covered with a matching aluminum plate.



Instead of receptacles, standard switches can also be mounted in the box and switch plates used for its face. Any standard wiring device that fits in a conventional box can also be mounted in the turret.

Sturdy enough for hard use, the turret is styled to match the design of appliances, major equipment and furnishings in all types of electrical installations.

*Immediate delivery is available on small quantities; larger orders can be filled in a reasonable time. For additional information and prices, please contact The Simes Company, Inc., Dept. 23, 114-15 15th Avenue, College Point 56, N. Y.*

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Lightweight SONOTUBE has been widely used in projects involving concrete columns, piers, piles, etc., and meets all engineering standards. Can be sawed to exact lengths on job. Requires minimum bracing. Complete technical data available.

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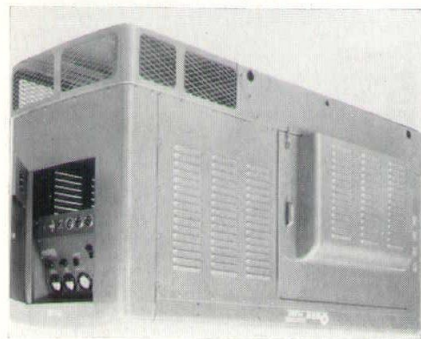
**1" UP TO 48" I.D.**

YARDS AND WAREHOUSES  
35 HARRISON ST., ROSLINDALE, MASS.  
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*For*  
**ROUND  
COLUMNS  
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CONCRETE**  
**at lower cost!**



**NEW 50,000-WATT ONAN  
ELECTRIC PLANT FEATURES  
MAGNECITER GENERATOR**



A completely new series of 50,000-watt, gasoline-driven, emergency electric generating plants, each equipped with the new Onan-developed "Magneciter" generator, is announced by D. W. Onan & Sons Inc., Minneapolis, Minnesota.

Claimed to be over \$300.00 lower in price than previous 50KW models, this new Onan Series KB will provide exceptionally fast motor starting and full-rated electric power for all types of standby emergency applications in hospitals, theatres, institutions, radio stations, banks, department stores, motels . . . wherever the need exists for dependable, quick-starting auxiliary power in this capacity.

The attractive low price and new all-weather metal housings, available for the first time as standard items, make this new KB Series economical and practical for primary power applications such as floodlighting, etc., in the construction field where rugged day-in, day-out operation is essential.

Onan's new "Magneciter" generator is said to provide stepped-up performance in both primary and emergency standby applications by:

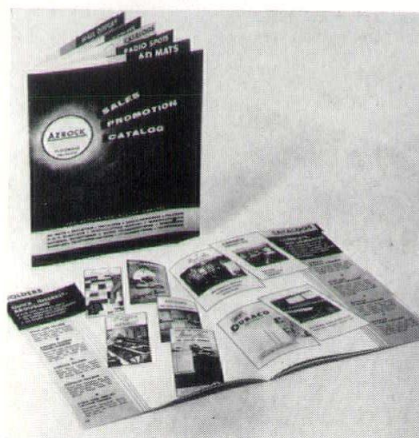
1. Faster voltage recovery . . . up to *five times faster* than a rotating exciter.
2. Less voltage fluctuation . . . fluctuation with load changes is *less than half* that of standard-type generators.
3. Greater reliability . . . *all moving parts in the exciter and voltage regulator are eliminated!*
4. Fewer adjustments and easier servicing as a result.

Series 50KB units are *complete* electric generating plants . . . with the International Harvester UV-401, V-8 engine, Onan "Magneciter"

generator and control panel assembled into one compact unit. This gasoline engine-driven generator set is rated 50KW, 62.5KVA at 0.8 Power Factor and is available in all standard voltages to 600 volts.

For further information on Series KB Electric Plants, write the manufacturer, D. W. Onan & Sons Inc., 2515 University Avenue S. E., Minneapolis 14, Minnesota.

**AZROCK SALES CATALOG**



A new Sales Promotion Catalog for Azrock Floor Products is now available to authorized Azrock wholesalers and dealers.

This colorful 24-page catalog gives information on the entire line of Azrock sales promotion and advertising aids for dealers. Details on how to order and use these materials is included.

The catalog covers such items as advertising mats, point-of-sale displays, radio and television advertising, catalogs and folders, merchandiser, streamers and samples.

*Every item illustrated in the catalog is currently available. The catalog may be ordered from Azrock wholesale distributors or from Azrock Floor Products, Box 531, San Antonio 6, Texas.*

**SPENCER ISSUES NEW CATALOG**

The Spencer Turbine Company, Hartford, Conn., has issued a new 8-page brochure, catalog No. 160, on Installed Vacuum Cleaning Systems for use in schools, office buildings, hotels, motels, hospitals, restaurants and other institutional, civic and municipal buildings. Included in the catalog are details of the system and its many uses, illustrations and information on installations and descriptive diagrams of the system.

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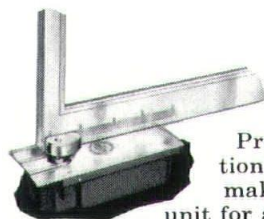
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## Traffic Movement in Busy Areas



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INVISIBLE DOR-MAN Automatic Door Operators improve the character of all busy buildings. Free and easy movement through doorways promotes efficiency and better employee and public relations. The INVISIBLE DOR-MAN is a sturdy, reliable unit designed to withstand constant hard use. It is versatile in application—can be provided with carpet, with door handle or wall switch type controls. Gives years of safe, dependable operation with new or existing doors.



### DOR-O-MATIC

Manual Door Controls  
Proven "in operation" dependability makes this an ideal unit for all institutional, commercial or office structures.



The INVISIBLE DOR-MAN frees needed hands to do other work in busy kitchens, dining halls and labs.



Movement of patients is expedited in and out of operation and recovery rooms. Convenient for both patient and employee.

Sales and Service in New England by

## DOOR CONTROLS, INC.

Subsidiary of DOR-O-MATIC division of Republic Industries, Inc.

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### DAY-BRITE LIGHTING

A new 16-page booklet on industrial lighting is available from Day-Brite Lighting Incorporated. Fixture cost comparisons, cost of lighting per square foot, and numerous installation photos are illustrated. Copies are available from Day-Brite Lighting, Inc., 6260 North Broadway, St. Louis 15, Mo.

### NEW DURCON LABORATORY SINKS

The Durcon Company, Inc., Dayton, Ohio has announced the addition of Durcon Laboratory Sinks to their line of corrosion-resistant equipment. Durcon formulations are modified epoxy resins. The Durcon Company modifications have produced startling improvements in the previously fine resistance of the epoxy to the wide variety of corrosive chemicals normally encountered as laboratory reagents. These modifications also result in excellent mechanical properties for the material.



Durcon sinks exhibit excellent resistance to corrosion, abrasion, and heat. They are approximately 60% lighter in weight than competitive materials. This provides not only savings in shipping costs, but also installation costs. The purchase price is usually considerably less than competitive materials.

Durcon sinks are impermeable to liquids. The percentage of moisture absorption in a 48-hour period is a maximum of 0.06%. This prevents the possibility of permanent staining by even the most penetrative dyes. The sinks will remain dimensionally stable through years of service.

Cast Durcon sinks are available from stock in twelve standard sizes. Special sizes of Durcon sinks can be fabricated on order to meet virtually any requirements.

Bulletin PF/5 contains a corrosion resistance chart, a dimension table, procedures for installation, and complete information on Durcon sinks. Write The Durcon Company, Inc., Dayton, Ohio.



**NEW MODERNFOLD  
SOUND INSULATED PARTITIONS**

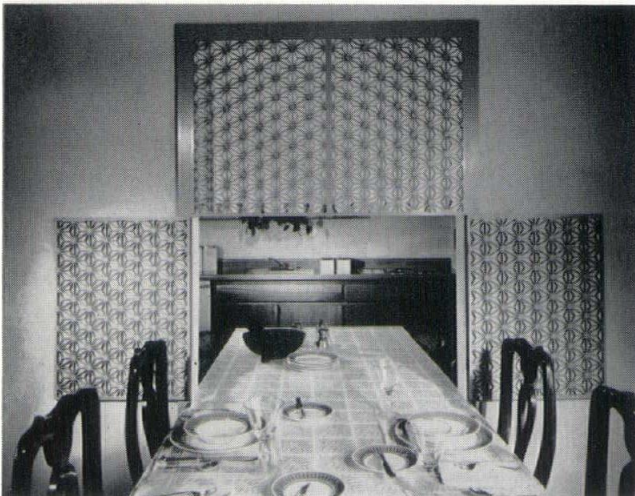


New Castle Products, Inc. has announced the new Modernfold "Spanmaster" and "Soundmaster" series of sound insulated folding partitions for institutional and commercial applications where space flexibility and maximum sound reduction are basic requirements.

Over the frequency range of 350 to 4000 cycles per second the "Spanmaster" will produce an average decibel reduction of 37.5, and the "Soundmaster" a reduction of 34.6. This improved performance is made possible through the use of engineered sealing agents on all four edges, and of improved sound liners. Dual "Spanmasters" can produce a reduction of 49 decibels.

In cases where specifications and details have not yet been received, architects and engineers are invited to consult their local Modernfold distributor, or The Modernfold Company, 19 Washington Street, Wellesley Hills 81, Massachusetts.

**MOSAIC TILE**



An interesting feature for the contemporary home is this Mosaic ceramic tile table extending from the dining room into the kitchen. The table, which can seat as many as twelve people, is surfaced with The Mosaic Tile Company's Decotile, decorated glazed ceramic tile, in a delicate leaf pattern. The tile, of course, makes the table top stainproof, burnproof and easy to wipe clean. The "shoji" screens, lacquered in tomato-orange, can close off the kitchen from the dining area for more formal occasions. Mrs. Anne Winkler of William Pahlmann Associates designed this for one of the homes in the Cantor and Goldman development in Madison Township, N. J.



**Got a floor  
surfacing  
problem?**

*solve it with*  
**H-F EPOXY-CRETE**

Forms an amazingly durable surface with twice the tensile strength of concrete. Resists heavy impact, abrasion, chemical action. Adheres permanently to old or new cement, concrete or wood. Ideal for patching or re-surfacing "trouble spots" where ordinary materials fail.

**H-F EPOXY-TRED**

Self-sharpening abrasive forms a permanently non-skid surface, turns wet danger spots into safety zones. Can be applied over original ramps, stairways, floors. Survives heaviest traffic, protects employees and the public on accident-prone areas, reduces lawsuit risk.

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### ASPHALT AND VINYL-ASBESTOS TILE

This actual unretouched photograph of Matico Tweed Tile and a swatch of expensive carpeting shows how successfully Tweed duplicates the beauty and desirable textured look of carpeting in low-cost Asphalt and Vinyl-Asbestos Tile.

Matico Tweed is long-wearing, easy and economical to maintain and can be installed on suspended double wood floors, suspended concrete floors and concrete floors on and below grade. Consider Tweed for your next project.

For a complete set of free color samples, write

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Asphalt Tile  
Vinyl-Asbestos Tile  
Plastic Wall Tile

Specification Data:  
Size: 9" x 9"  
Thicknesses:  
Asphalt-1/8";  
Vinyl-Asbestos—  
Std. Gauge & 1/8"  
Colors: 9



## ARCHITECTURAL TRENDS II

(Continued from page 36)

the worker acts in a supervisory capacity. As in the auto industry today, automation is to become the keyword in the house building industry of tomorrow. It seems within the realm of possibility that the vast majority of future US homes will no longer be built on the site, as they have always been, but in huge plants where the mechanized production can proceed independent of the weather. Such prospects are of particular importance for four-season regions where building activities traditionally oscillate between busy and slow cycles.

The spectacular rise of house prefabrication in the US during the past ten years leaves little doubt that it is here to stay. In fact, seasoned observers believe that it will eventually dominate, if not take over, the housing markets in major metropolitan areas.

The advantages of prefab homes are many. To the builder a manufactured house means: (1) Reduction of his office and labor payroll, and of his investment and maintenance of equipment because in the "pre-fab

way" he can put up more houses with fewer people and less machinery. (2) He saves a great deal of time because the manufacturer's truck unloads the house components (neatly numbered for quick assembly) right on the site for the builder's crew to assemble into houses in a matter of a day or two. (3) Since the builder buys a finished product, his warehousing costs are cut to nearly zero. (4) He has effective control of costs and materials since he knows the basic price ahead of time and since there is little or no overtime due to bad weather, holidays, etc. (Incidentally, theft—a hazard during the month-long building period—is almost eliminated.) (5) He has fewer headaches with inspectors and regulations since homes are factory-engineered to meet many codes. (6) His manufacturer takes care of national advertising and local promotion in order to "orient" the home-buying public toward prefabricating. (7) Last but not least, savings in interest payments on construction loans are reduced—an item of particular importance to large-scale operators.

Three limitations of manufactured homes should be mentioned: (1) Transportation costs may become

excessive if the distance from the plant is too great. (2) Prefabrication has little appeal in areas where concrete blocks are the primary building material. (3) Mechanization and automation tend to increase unemployment among construction labor. Unemployment in general, however, is a part of the social and economic transition from a partially industrialized to a totally mechanized mode of production, something which has to be solved on a national level and is obviously beyond the scope of this study.

With the increased output of prefabs will come the emergence of a new type of builder-developer. If in the past the 100-house-a-year merchant builder ranked among the nation's largest builders, tomorrow he will be dwarfed by the new type of developer who will plan, finance, and build communities, complete with schools, hospitals, city halls, parks and roads. A few such developers are at work already, and Florida, together with New York and California, leads the way.

These developers could offer the prospective home buyer benefits and attractions which today's merchant

(Continued on page 51)



(Continued from page 50)

builder could not match. For instance, the new communities could be planned by professional city planners who understand the proper use of land. Parks, roads, streets and parking and public areas could stand in proper relationship to homes, schools, shopping centers and the like. Up-to-date city planning theories, together with architectural and landscape designs, could be applied in the plans of these new communities. The large-scale developer and the prefabricator could easily afford the talents of top-flight architects, planners, decorators and landscapers — something that an average merchant builder simply cannot duplicate. Finally, the buying power coupled with the merchandizing techniques of large-scale developers is likely to out-compete the average merchant builder in the major metropolitan markets.

But of course not everyone is going to want to live in prefab homes. Custom designed and custom built homes will always keep a certain number of architects and builders busy. And in and around small cities, on hard to reach terrain, and in undeveloped areas where the transportation costs will make prefab homes impractical, the merchant builder and the small developer will always dominate the housing market. There is little doubt, however, that the future mass-produced and mass-distributed factory home will be a potent force pressing upon the efforts of smaller builders and making them look for more attractive designs and new ways of streamlining their production in order to stay in business.

In summing up these sociological and technical trends, we would say that the culmination of centuries of

technical development leads us away from the concept of the house as a bulky, massive structure toward a concept of a rather light-weight, factory assembled, fireproof shelter, attractively designed to satisfy the artistic and functional needs of the XXth century way of living.

\* \* \*

#### PROMOTION

Ralph T. Rowland, Architect, of 5 Ives Street, Hamden, Conn. has announced the promotion of Mr. William S. Valus, Jr., of 25 Reitter Street, Stratford, Conn. to the position of Associate.

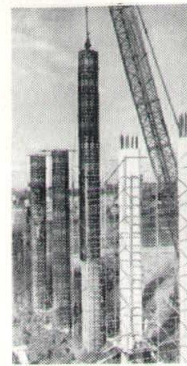
Mr. Valus is a graduate of Fairfield College Preparatory School and the University of Notre Dame, from which he was awarded the degree of Bachelor of Architecture, *Cum Laude*, in 1955. He is a registered architect in Connecticut.

From 1955 to 1957 Mr. Valus was employed by Fletcher-Thompson, Inc., architects and engineers of Bridgeport, where he was engaged in the design of various buildings, including the State Highway Department's maintenance facilities on the Connecticut Turnpike. Following this, he was employed by Leo A. Daly & Associates, San Francisco, Calif., in the design of the Sisters of Humility Junior College at Ottumwa, Iowa, and as Assistant Project Manager for the Master Plan of Hill Air Force Base at Ogden, Utah.

Mr. Valus became a member of Mr. Rowland's office in October, 1958, as Director of Design, and has been responsible for basic design and coordination of the work of this office, which is engaged in architectural services for residential, commercial and governmental build-

## NEW! EFCO BRIDGE COLUMN FORMS

EFCO Bridge Column Forms used on New Orleans overpass save time and labor. Precision construction permits quick, easy stripping as shown. Adaptable to a wide range of uses. Ideal for forming pier nosings when combined with regular EFCO Forms.



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Box 128-AH  
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Des Moines, Iowa

Please send information on EFCO Bridge Column Forms, and address of nearest sales office.

Name.....

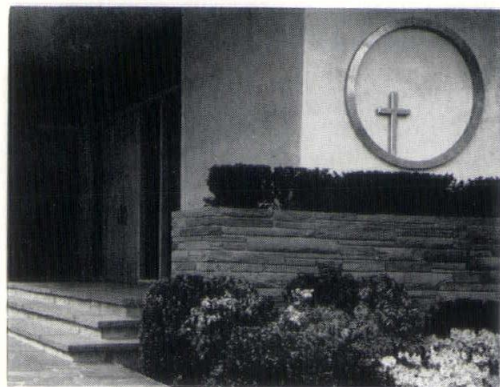
Firm name.....

Address.....

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

ing projects in this area, including the recently completed Gambardella's Oyster House Restaurant in North Haven, Valley Brook Homes in North Haven, and is currently engaged in planning an addition to the Subsistence Building at the New London Submarine Base.

Mr. Valus is the son of Mr. and Mrs. William S. Valus, Sr., of 25 Reitter Street, Stratford. He is Secretary of the Notre Dame Alumni Club of Bridgeport, and is a member of the Knights of Columbus, Catholic Graduates' Organization and the San Francisco Architectural Club.



HAROLD M. TURIELLO, Architect

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Weymouth Seamface and Splitface Granite  
Crab Orchard • Craigmar-Tennessee Marble  
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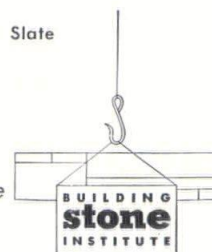
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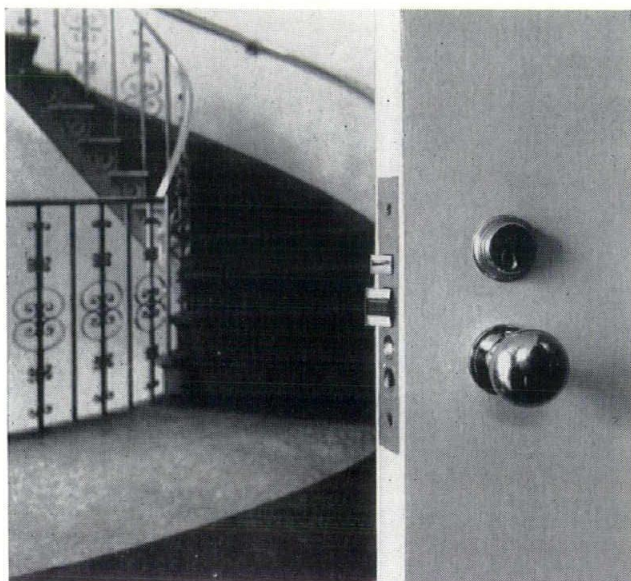


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Radcliffe Graduate Living Centre  
Architects: Perry, Shaw, Hepburn  
and Dean.

Boston, Mass.

Contractor: The McCutcheon Co.

Boston, Mass.

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Ralph E. Rodin

**YALE** heavy mortise  
locks with cast brass knobs  
and screwless roses in polished  
brass finish were used  
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## ARCHITECTURAL TOUR OF EUROPE VIA AIR FRANCE

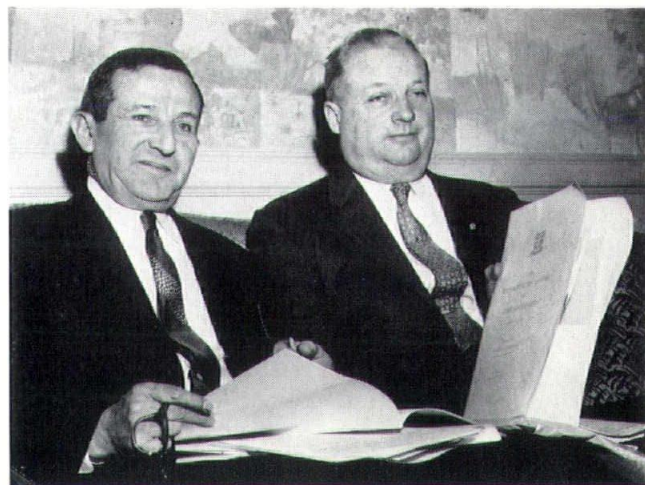
Several outstanding examples of contemporary Western European Architecture will be visited this Fall by a group of American architects on a professional tour sponsored by the French branch of the International Union of Architects, in association with Air France and McGinniss Travel Service, Inc., of New York.

The establishment of the necessary professional contacts have made it possible for American architects to see and discuss architectural accomplishments which have had a profound effect on American design in recent years.

Not only will individual architectural achievements be visited in Paris, Marseilles, Milan, Rome, Zurich, Basle, Cologne, Berlin, Copenhagen, and Rotterdam, but meetings have been arranged in those cities so that United States and European architects can discuss subjects of mutual interest, such as trends in design, methods of architectural practice, and other professional problems. The itinerary also includes stops in Le Havre, Nice, Venice, Vallauris, Ronchamps, Duren, Dusseldorf, and Brussels.

The group will depart from New York via Air France Super Starliner on October 17. The cost of the 30-day tour, including economy-class transatlantic air service, and first-class hotel, rail and motorcoach transportation, is \$1,730.00 per person. For those choosing first-class Air France service from New York to Paris and return, the over-all charge is \$2,100.00. A saving of \$300.00 on first-class transatlantic air fare, or \$150.00 on economy service is effected if the wife or dependent children under 21 years of age accompany the architect. *Additional information regarding the tour may be obtained from the McGinniss Travel Service, Inc., 160 Central Park South, New York City, or from any Air France office.*

## A.G.C.



REPRESENTING the Associated General Contractors of Massachusetts at the recent Massachusetts Assembly on State Government at Tufts University were (left) Samuel Suskin of Brookline, president of the AGC and vice-president of Hew Construction; and (right) Richard White of Newton, vice-president of Richard White Sons, Inc. The two Greater Boston construction executives were among the Commonwealth's top industrial, government, educational, civic and economic leaders who participated in the three-day investigation of Massachusetts state programming and needs.



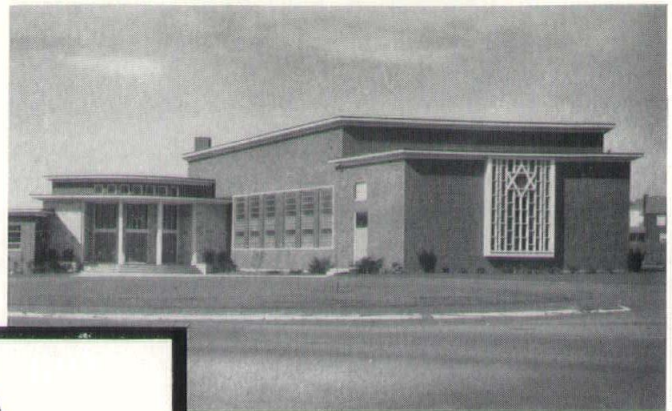
# The DEPTH of a TRADEMARK!



RABB GRADUATE CENTER  
BRANDEIS UNIVERSITY  
WALTHAM, MASS.

**Architects:**

HARRISON & ABRAMOVITZ



TEMPLE BETH EL  
BELMONT, MASS.

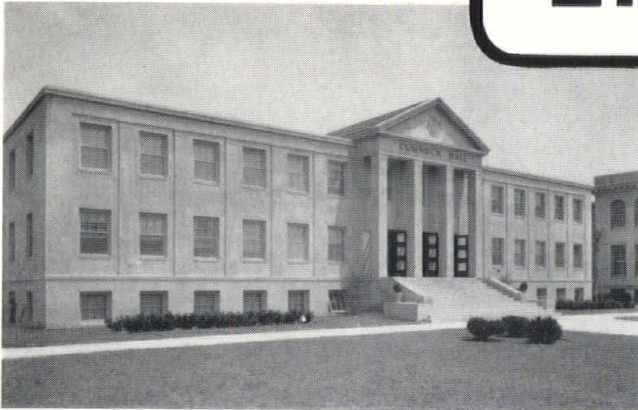
**Architects:**

DAVID J. ABRAHAMS & ASSOCIATES

CUMNOCK HALL  
LOWELL TECHNOLOGICAL INSTITUTE

**Architects:**

KROKYN & BROWNE



RECUPERATIVE HOME  
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**Architects and Engineers:**

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A trademark cannot be two dimensional. It needs more than height and width — it must have *depth*. It requires some valuable intangibles behind it — worthwhile performance, integrity, dependability, experience and the ability to produce. Behind the Lilly trademark there are many tangible accomplishments which attest to that necessary intangible third dimension — *depth*.

Buildings under construction which bear the Lilly sign are a conscientious endeavor to express the fact that Lilly in construction signifies pride in craftsmanship.



PRIDE IN  
CRAFTSMANSHIP

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# Specify **CRANE** PLUMBING & HEATING



Exterior view of Air Conditioning unit and cooling towers at the United Shoe Machinery Corp. garage building on High Street, Boston, Mass. A. Ehrenzeller, Engrs., Boston, Mass.

One of the largest renovations for air conditioning in the world of an existing building in which all work was done during normal working hours without disrupting the tenants in any way. The unit is contained on the roof of the garage building adjacent to the United Shoe Machinery Building, but the entire cooling system is controlled from a central motor system board in the basement at 140 Federal Street. Individual room units in each office are fed with 45 degree water and throughout the building, primary air units feed conditioned outside air to each office.

**CRANE PLUMBING  
& HEATING CO.**  
56 ELM STREET CAMBRIDGE, MASS.

## CONTRACTS

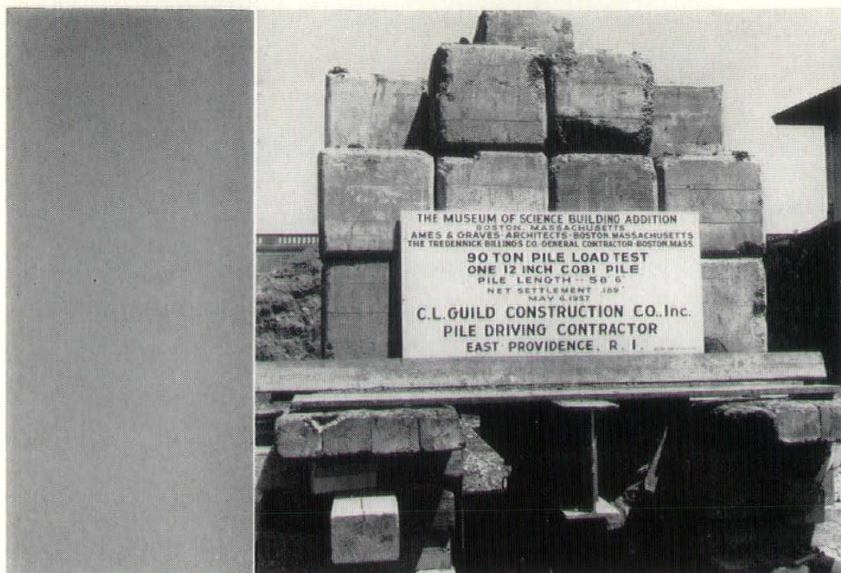
## AWARDED

This resume was compiled with the cooperation of GAINES'S CONSTRUCTION NEWSLETTER of Boston, Mass. and represents a total of \$75,109,868 in building construction contracts awarded during the period MARCH 16, 1959 through APRIL 22, 1959.

### MASSACHUSETTS

<b>ACUSHNET</b>	<b>\$474,323</b>
Jr. High School — Town of Acushnet Arch: Israel T. Almy, Fall River Contr: Olsen & Appleby Inc., New Bedford	
<b>BOSTON</b>	<b>\$29,114,000</b>
Vehecular Tunnel under Boston Harbor Engr: Singstad & Baille, New York City Neg. Contr: Perini Corp., Framingham, Mass.	
<b>BOSTON</b>	<b>\$1,604,000</b>
Library — Simmons College Arch: Campbell & Aldrich, Boston Contr: John A. Volpe Constr. Co., Malden, Mass.	
<b>BOSTON</b>	<b>\$6,000,000</b>
Foundation Work, Prudential Center Arch: Hoyle, Doran & Berry, Boston Contr: George A. Fuller Co., Boston	
<b>CAMBRIDGE</b>	<b>\$1,700,000</b>
Drama Center — Harvard-Radcliffe Arch: Hugh Stubbins & Assoc., Cambridge Contr: (neg.) George A. Fuller Co., Boston	
<b>CAMBRIDGE</b>	<b>\$1,458,326</b>
Hospital Expansion — Mt. Auburn Hospital Arch: Marcus & Nocka, Boston Contr: J. J. Powers Co., Cambridge	
<b>CAMBRIDGE</b>	<b>\$430,000</b>
Refectory — Radcliffe College Arch: Perry Shaw Hepburn & Dean Neg. Contr: McCutcheon Co., Boston	
<b>CHICOPEE</b>	<b>\$352,280</b>
Elem. School Addn.— USA Westover A F B Arch: Henry J. Tessier, Springfield, Mass. Contr: M. J. Walsh & Sons, Inc., Holyoke, Mass.	
<b>EAST LONGMEADOW</b>	<b>\$1,574,800</b>
Sr. High School — East Longmeadow Arch: Alderman & MacNeish, West Springfield Contr: E. J. Pinney Co., Inc., Springfield	
<b>EVERETT</b>	<b>\$1,090,402</b>
Housing for the Elderly — Everett Housing Authority Arch: William W. Drummey, Boston Contr: Grande & Son, Inc., Malden, Mass.	
<b>FALMOUTH</b>	<b>\$396,910</b>
Readiness Crew Bldg.— USA Corps of Engrs. Engr: Alonzo B. Reed, Inc., Boston Contr: L & R Constr. of Medford, Inc., No. Reading, Mass.	
<b>HAVERHILL</b>	<b>\$1,100,000</b>
Bowling Center — H. E. Cline Constr. Co., Newton, Mass. Arch: Private Plans Contr: H. E. Cline Constr. Co., Newton, Mass.	





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Net settlement 0.189 in.

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BOSTON, MASSACHUSETTS

Another COBI Pile foundation for Boston by C. L. Guild.

The Museum of Science addition, now under construction, rests on COBI Cast-in-place Concrete Piles.

COBI PILES are proving sensational for Boston, New England and the Nation.

COBI PILES drive straighter, due to the constant cross section of the heavy mandrel.

COBI PILES are more economical, they are driven in intimate contact with the soil and screw themselves into the ground.

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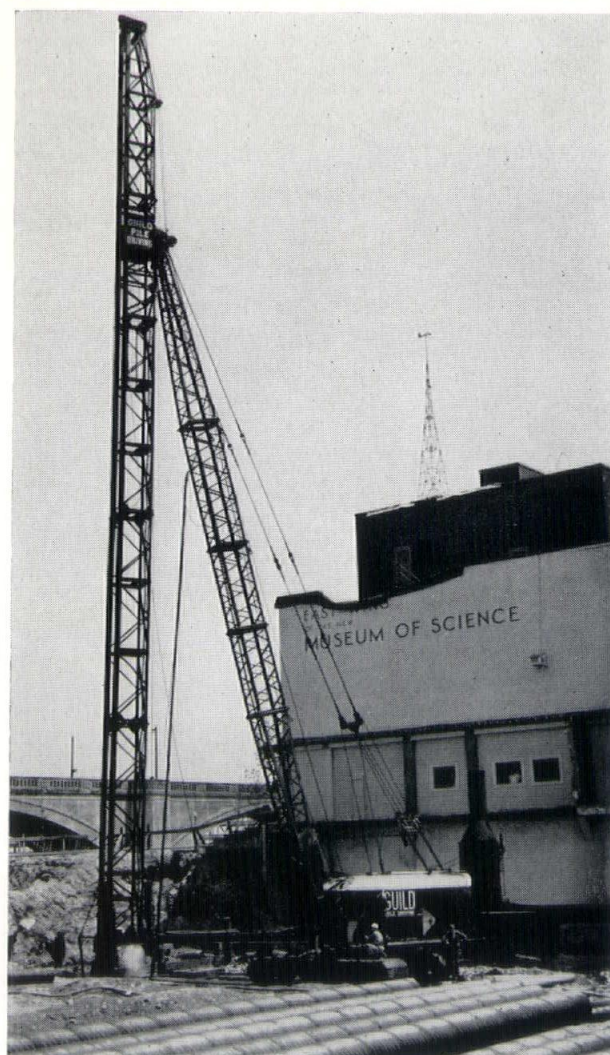
COBI PILES maintain the original shape and form of the shells. They are driven as an integral part of the mandrel.

COBI PILES are largest where the need is greatest, down below.

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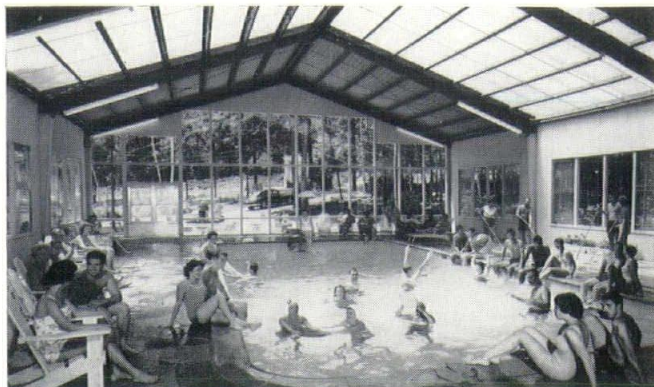


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<b>HAVERHILL</b> Housing for the Elderly Arch't: William W. Drummey, Boston Contr: Roberto Constr. Co., Wakefield, Mass.	<b>\$539,000</b>
<b>HOLYOKE</b> Parochial School, Mater Dolorosa Parish Arch't: Eggers & Higgins, New York City Neg. Contr: Daniel O'Connells Sons, Inc., Holyoke, Mass.	<b>\$500,000</b>
<b>HYDE PARK</b> Hyde Park Convalescent Home Arch't: David M. Crawley, Plymouth, Mass. Contr: R. R. Jacobucci, Inc., Quincy, Mass.	<b>\$298,650</b>
<b>LAWRENCE</b> Elem. School, Hamlet Street Arch't: Warren H. Ashley, West Hartford, Conn. Contr: Vara Constr. Co., Boston	<b>\$593,000</b>
<b>LAWRENCE</b> Osgood St. Elem. School Arch't: Warren H. Ashley, West Hartford, Conn. Contr: Vara Constr. Co., Boston	<b>\$1,198,000</b>
<b>LITTLETON</b> Church and Rectory, St. Annes R. C. Parish Arch't: John Guarino, East Boston, Mass. Contr: Sewell & Smith Constr. Co., Framingham	<b>\$324,374</b>
<b>MALDEN</b> Bowladrome for James DeCotis, Malden, Mass. Arch't: Frank E. Perham, Malden, Mass. Contr: Owner awards separate contracts	<b>\$250,000</b>
<b>MENDON-UPTON</b> Regional High School, Mendon and Upton, Mass. Arch't: S. W. Haynes & Assoc., Inc., Fitchburg Contr: Sewell & Smith Constr. Co., Framingham	<b>\$813,100</b>
<b>NORTH WOBURN</b> Elem. School — City of Woburn Arch't: Edward J. Tedesco, Woburn, Mass. Contr: Martin W. Manzelli, Belmont, Mass.	<b>\$332,518</b>
<b>NEWTONVILLE</b> Warehouse and Offices, G & S Paper Co. Arch't: Architects Collaborative, Cambridge, Mass. Contr: Reznick Constr. Co., Dorchester, Mass.	<b>\$257,703</b>
<b>PALMER</b> Wing Memorial Hospital Addns. Arch't: James H. Ritchie & Assoc., Boston Contr: H. U. Bail & Sons, Inc., Southbridge, Mass.	<b>\$321,365</b>
<b>ROXBURY</b> Roxbury Memorial High School Addns. Arch't: Thomas F. McDonough, Boston Contr: James Constr. Co., Brookline, Mass.	<b>\$1,448,370</b>
<b>SOUTHBRIDGE</b> Armory, Commonwealth of Mass. Arch't: Priestley Assoc., Boston Contr: H. J. Madore, Inc., Southbridge, Mass.	<b>\$223,700</b>
<b>SOMERVILLE</b> Municipal Incinerator Engr: Robert Charles Assoc., Boston Contr: C. J. Maney Co., Inc., Lexington, Mass.	<b>\$1,069,000</b>
<b>SHIRLEY</b> Lura A. White Elem. School Arch't: Stoner Assoc., Boston Contr: H. V. Lindberg, Fitchburg	<b>\$346,702</b>



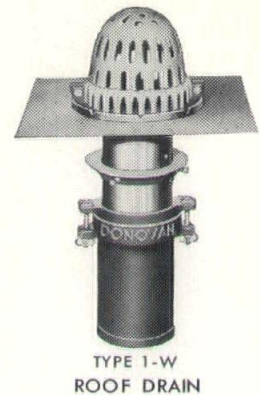
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<b>WAYLAND</b> Senior High School Arch: Architects Collaborative, Cambridge Contr: N D C Constr. Co., Boston, Mass.	\$1,619,699
<b>WELLESLEY</b> Communications Bldg.— USA — US PO and FO for Mass. Arch: Wendell T. Phillips Assoc., Milford Contr: Rocheford Constr. Co., Framingham	\$350,960
<b>WEYMOUTH</b> Trinity Episcopal Church Arch: Gustav A. Hagen, Boston Contr: Mark Brown, Westwood, Mass.	\$100,500
<b>WOODS HOLE</b> Public Aquarium and Maintenance Bldg. Engr: Symmes Maine Hryniewicz, Cambridge Contr: Mishara Constr. Co., Brighton, Mass.	\$388,400

## CONNECTICUT

<b>BRISTOL</b> Mary A. Callen Elem. School Addn. Arch: Harold A. Hayden, Bristol Contr: Bari LaVoie Co., Farmington, Conn.	\$106,312
<b>BRISTOL</b> Clara T. O'Connell Elem. School Addn. Arch: Harold A. Hayden, Bristol Contr: P. Allaire & Sons, Inc., Bristol	\$294,839
<b>EAST HARTFORD</b> George E. Slye School Addn. Arch: Ebbets Frid & Prentice, Hartford Contr: A. F. Peaslee, Inc., Hartford	\$241,186
<b>GROTON</b> Capehart Housing Project, USA 3rd Naval Dist. Arch: Kane & Fairchild, Hartford Contr: D. & L. Constr. Co., No. Hollywood, Calif.	\$7,945,000
<b>GLASTONBURY</b> Town Office Building Arch: Jeter & Cook, Hartford Contr: Wadhams & May Co., Hartford	\$321,081
<b>HARTFORD</b> Albert I. Prince Regional Vocational School Arch: Russell F. Willis, Hartford Contr: Wexler Constr. Co., Newton, Mass.	\$3,078,000
<b>HARTFORD</b> St. Justin's R. C. Church Arch: Bannon & Antinozzi, Stratford, Conn. Contr: Associated Constr. Co., Hartford	\$200,000
<b>KENT</b> Kent School (Girls Div.) Skiff Mountain Arch: Moore & Salisbury, West Hartford Contr: (Neg.) William L. Crow Constr. Co., N. Y. C. and T. D. F. Hobbs, New Canaan, Conn.	\$2,500,000
<b>MADISON</b> Daniel Hand High School Arch: Wilkins & Stecker, Hartford Contr: Wadhams & May Co., Hartford	\$739,410
<b>NEW BRITAIN</b> St. Matthews Lutheran Church Arch: Edward W. Koerber, Cleveland, Ohio Contr: Carlson & Torrell Co., New Britain	\$357,174

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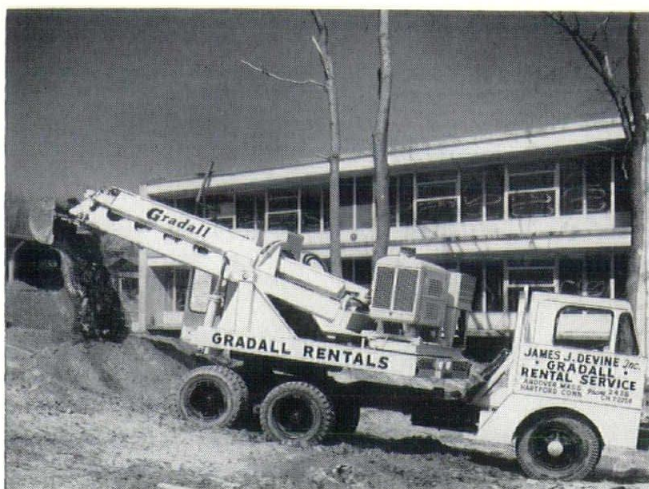
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Arch: Douglas Orr, New Haven

Contr: Fusco Amatruda Co., New Haven

##### STAMFORD

**\$326,186**

Villa Maria Retreat House Addn.

Arch: Sterbach & Rheame, Stamford

Contr: Vuono Constr. Co., Stamford

##### TRUMBULL

**\$2,700,000**

St. Joseph Manor Catholic Home for the Aged

Arch: J. Gerald Phelan, Bridgeport

Contr: E. & F. Constr. Co., Bridgeport

##### WILSON

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Church and Rectory, St. Gertrudes Parish

Arch: J. Gerald Phelan, Bridgeport

Contr: Associated Constr. Co., Hartford

##### WEST HAVEN

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Arch: Harry S. Cannici, West Haven

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Plant Addn.— Kidder Press Co., Inc.  
Arch: Maurice E. Witmer, Portsmouth, N. H.  
Contr: Peirce Constr. Co., Stratham, N. H.

**\$118,409**

**DURHAM**

Hamilton-Smith Lab. Addn.— Univ. of N. H.  
Arch: Koch & Isaak, Manchester, N. H.  
Contr: J. M. Constr. Co., Manchester, N. H.

**\$247,079**

**LISBON**

Elem. School Addn.  
Arch: Alexander H. Majeski, Manchester, N. H.  
Contr: Whitney Weston Corp., Franconia, N. H.

**\$156,999**

**MANCHESTER**

Ferretti's Supermarket  
Arch: Samuel T. Dubitsky, Fall River, Mass.  
Contr: Joseph Maggiore & Sons, Medford, Mass.

**\$499,974**

**MAINE**

**BANGOR**

Officer's Quarters — USA Corps of Engrs.  
Arch: Stevens & Saunders, Portland  
Contr: Edward R. Marden Corp., Brookline, Mass.

**\$174,575**

**KITTERY**

Tri-County Osteopathic Hospital Bldg.  
Arch: Maurice E. Witmer, Portsmouth, N. H.  
Contr: Kibler & Storer, Inc., Yarmouth, Me.

**\$400,870**

**LEWISTON**

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Arch: Alonzo J. Harriman, Inc., Auburn, Me.  
Contr: Paul B. McLellan Co., Portland, Me.

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Nursing Home — St. John's Valley Security Home  
Arch: Bunker & Savage, Augusta, Me.  
Contr: Consolidated Constrs., Inc., Portland, Me.

## PORTLAND

\$185,562

Helen M. King Jr. High School Addn.  
Arch: John Calvin Stevens, Portland, Me.  
Contr: Wiley Constr. Co., Scarborough, Me.

## PRESQUE ISLE

\$506,800

Elementary School  
Arch: Kenneth E. Jackson, Presque Isle, Me.  
Contr: Cote Constr. Co., Caribou, Me.

## PITTSFIELD

\$2,000,000

Shopping Center — J. R. Cianchette & Sons  
Arch: Henneberg & Henneberg, Cambridge, Mass.  
Contr: Owner builds.

## SOUTH PORTLAND

\$515,141

Senior High School Expansion  
Arch: Wilbur R. Ingalls, Jr., Portland, Me.  
Contr: C. Profenno Co., Portland, Me.

## TOGUS

\$169,000

New Chapel Bldg.— USA Vets. Admin.  
Arch: Alonzo J. Harriman, Auburn, Me.  
Contr: F. W. Cunningham & Sons, Portland, Me.

## TOPSHAM

\$287,969

NCO Open Mess and Airmen's Dorm., USA Corps of Engineers  
Arch: Alonzo J. Harriman, Inc., Auburn, Me.  
Contr: The Algo Corp., Wakefield, Mass.

# RHODE ISLAND

## KINGSTON

\$335,456

East Hall Addn.— Univ. of R. I.  
Arch: J. F. Hogan, Providence  
Contr: Edward Vigliotti, Providence

## NEWPORT

\$968,000

Permanent Subsistence Bldg., First Naval Dist.  
Arch: Charles A. Maguire & Assoc., Providence  
Contr: Radice Bros., Newport

## WARWICK

\$380,651

U. S. Army Reserve Training Center  
Arch: Fontaine & Bohl Assoc., Inc., Providence  
Contr: Donatelli Bldg. Co., No. Providence

## WOONSOCKET

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Shopping Center — Walnut Hills Plaza, Inc.  
Arch: Alfred Kozar, Providence  
Assoc. Arch: Charles G. Everett, Pawtucket, R. I.  
Contr: Alphase Ferland & Sons, Inc., Pawtucket, R. I.

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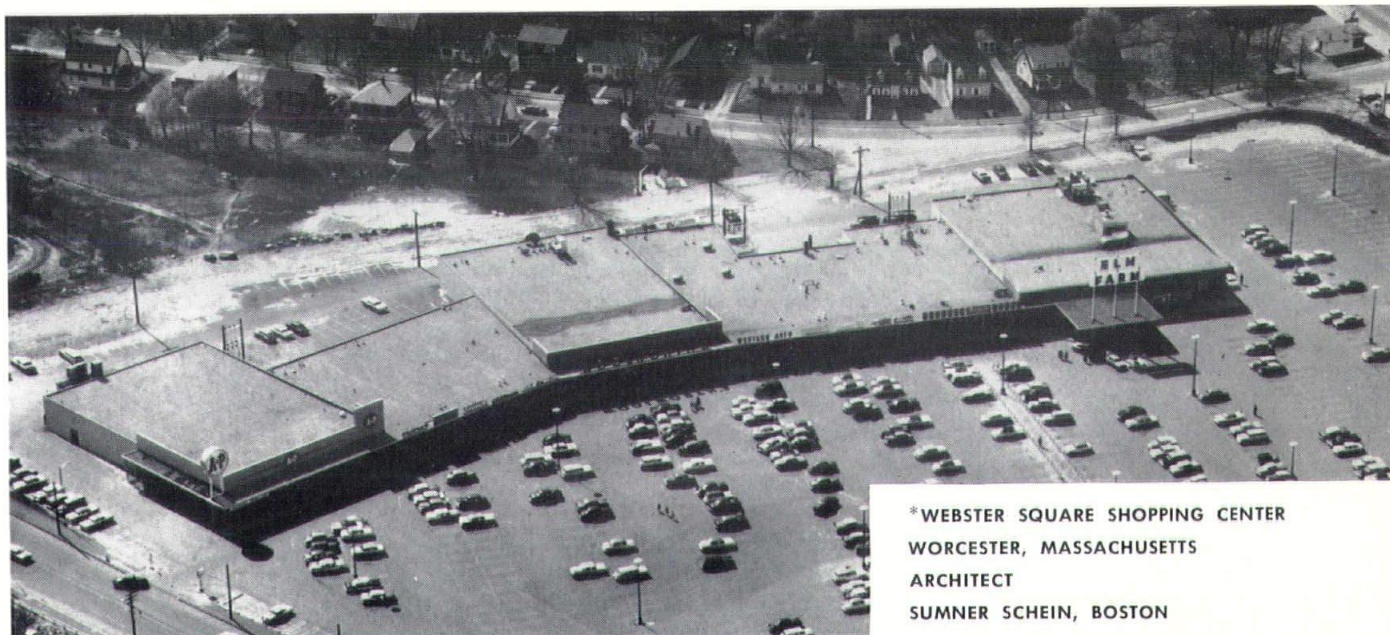
\$153,470

Industrial Bldg.— Edlund Co., Inc., Burlington  
Arch: Benjamin Stein, Burlington  
Contr: Hall Brothers, Randolph, Vt.

## COLCHESTER

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Contr: Reed & Stone, Essex Junction, Vt.



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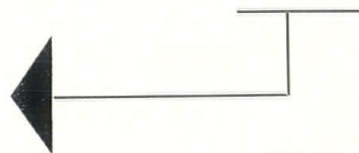
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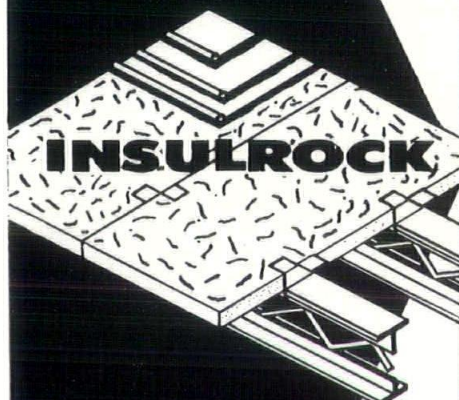


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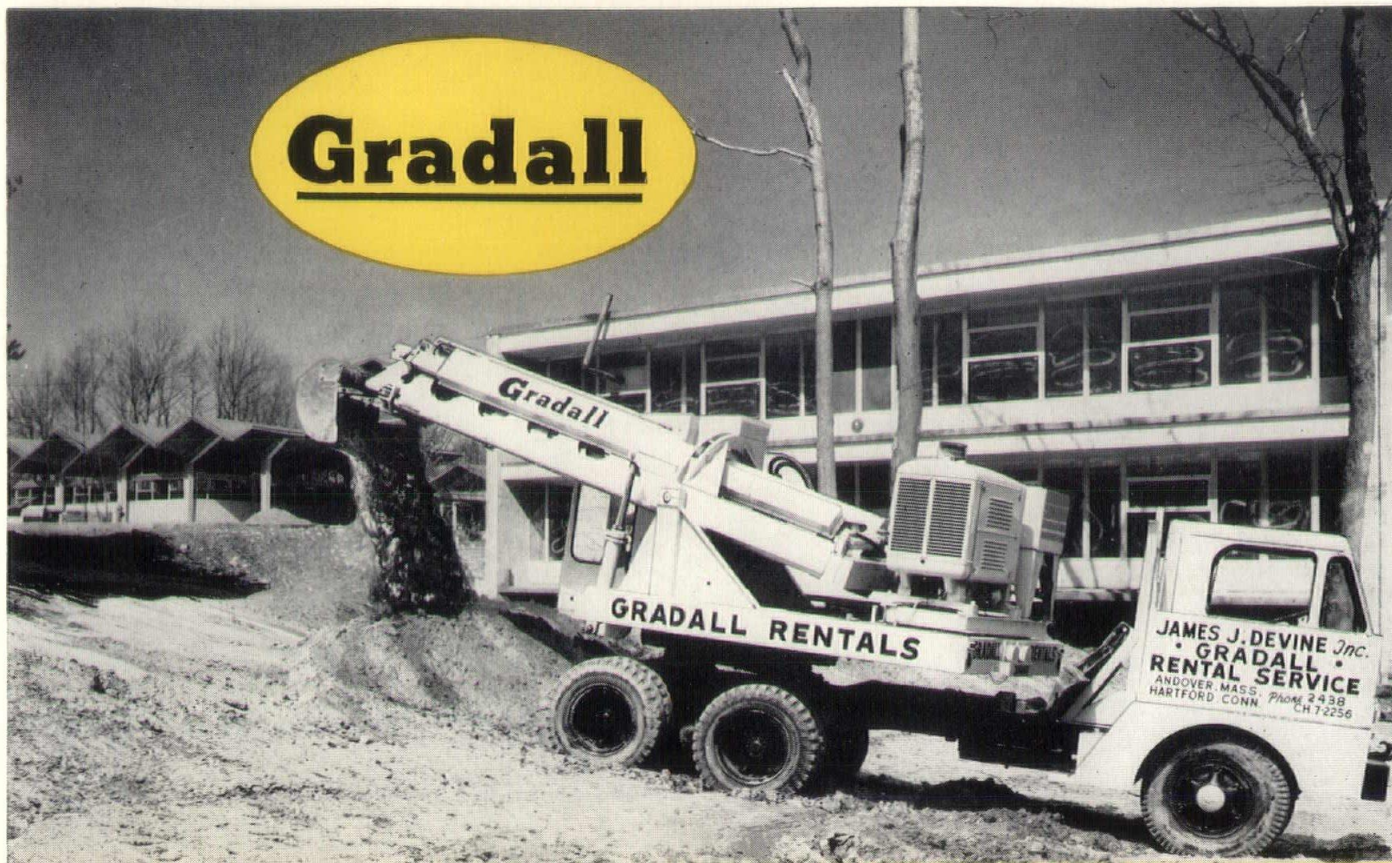
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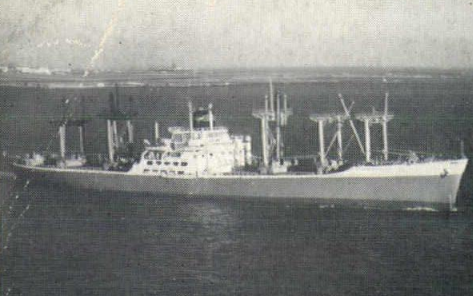
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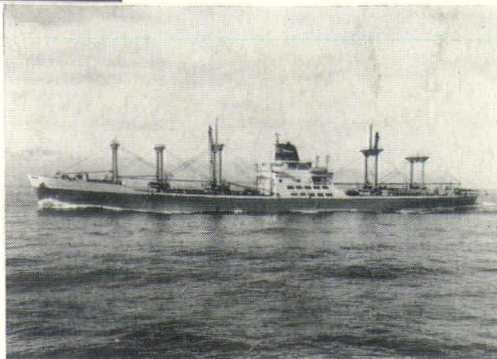
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