New Hampshire ARCHITECT

OFFICIAL PUBLICATION
New Hampshire Chapter of the American Institute of Architects

JULY 1957

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DURACRETE
It's wise when you're thinking of building or remodeling, to call in an architect at the earliest planning stage."

In every clime, at all times, the innermost heart of man and maid cries out for a home — "the place where we rest."

To most of us at some period in our lives comes the opportunity for planning a Home — the beloved and sacred spot which will be our shelter — and another's — from the cares of the outside world, where we can gain strength and purpose to carry us through our tomorrows.

None of Life's pleasures will bring us purer, simpler joy than this, the task of planning surroundings that will be at once beautiful, simple and convenient; beautiful with grace of style and attractiveness of material; simple with lines that rest and charm the eye; convenient in that they are designed to save effort, strength and labor, by conforming to an ideal of true efficiency.

The first question to be decided is the style of home we prefer. Then the amount we can profitably spend thereon must be definitely fixed. Do we prefer a neat, compact two-story house, or a one-story residence in more rambling style? Does the Dutch type, with mansard roof, appeal to us, or the pure Colonial, with its tall white pillars? Do we prefer a quaint California bungalow, or a villa in composite modern design? The decision is an important one, and the question of suitability to our chosen building site must not be forgotten.

The general plan of our future home once settled, the stability and worth of the framework insured by choice of a competent architect, the construction vouched for by a reliable contractor, and ourselves fully assured of getting just what we specify from a dealer of good reputation whom we know we can trust, most of us will happen on the discovery that successful home building is one of life's most delightful experiences, the enjoyment of which totally obscures the cost, both in anticipation and recollection; but — the default of a few simple precautions may bring lasting disappointment, loss and regret.

Safety in building — the fulfillment of every promise in plans and specifications — is assured by association with concerns of proved integrity and responsibility, and therefore, "it's wise when you're thinking of building or remodeling, to call in an architect at the earliest planning stage."
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COVER PICTURE

Peerless Insurance Company's New Building at Keene.
Stewart A. Lyford, 54, a member of the firm of Lyford and Magenau, died July 11 after a long illness. Mr. Lyford who was a native of Concord was a member of the New Hampshire Chapter of the American Institute of Architects.

He held membership in Alpha Lodge of Perfection, Ariel Council Princess of Jerusalem Acacia Chapter of Rose Croix of Concord, N. H. Consistory, Bektash Shrine, and Blazing Star lodge, F. and A. M. He was a 32nd degree Mason.

He also held membership in the N. H. Yale Alumni association and the University of New Hampshire alumni association. He belonged to the Sons of the American Revolution and St. Paul's Episcopal church and served as clerk of the parish for more than 15 years. He attended Concord High school, University of New Hampshire, and was a graduate of Yale university.

Survivors include his wife, Mrs. Charlene Pettengill Lyford, a daughter, Miss Cynthia Lyford, two sisters, Miss Dorothea Lyford and Mrs. Ruth L. Mansell of Stoddard; six nieces and four nephews and grand nieces and nephews.
FHA REVISING ITS BASIC BUILDING REGULATIONS

Simplified Rules Will Help Reduce Cost, Allow Builders Greater Flexibility

Working for the last 25 months with the aid of an advisory group of the nation's top architects and builders, the Federal Housing Administration has drafted a completely new set of construction standards, or so-called "Minimum Property Standards," for houses to be financed with FHA-insured mortgages, reports (the May) HOUSE & HOME, the professional magazine of the home building industry.

A lot of these impending new FHA standards will reduce construction costs, but some will also increase builder's expenses. Mainly, however, says the magazine, the new standards will give home builders much greater flexibility and "will be the most progressive document issued by FHA since the 1930's."

At present the proposed new rules are being circulated among building material manufacturers and other industry groups, so any "bugs" can be eliminated before they are formally issued.

The current HOUSE & HOME publishes a summary of the main changes of interest to builders. In an editorial, "Let's All Cheer for the New FHA Standards," it also strongly urges the entire industry to back up adoption of the simplified, practical, more economical new rules, and avoid the mistakes of opposing any of the changes that might increase some costs but insure the production of much sounder, better and easier-to-maintain houses for the public. Says this editorial:

"For years architects, builders and enders have been urging FHA to modernize and streamline its 20-year-old minimum property requirements . . . have moaned and groaned against unreasonable and arbitrary local interpretations placed upon the 28 often-conflicting regional versions of the MPRs.

"Now FHA is doing something about the MPRs . . . . In a most constructive and intelligent way to help our industry, Commissioner Norman Mason and Chief Architect Neil A. Connor, of Boston, have named an industry advisory committee of practical experts to help them update the FHA bible.

"This group has decided the old MPRs are not worth rewriting, so it has proposed junking the whole package. To take their place it has written a completely new set of FHA standards — clearer, simpler and fuller, combining the best of the old MPRs with the results of the best new research. It has written these standards as all codes should be written — as performance standards . . . .

Warning Against Short-Sighted Savings

"Some of these new standards will help our industry save millions of dollars worth of waste required by the old MPRs. (For example, the new standards permit 24-inch stud spacing and eliminate the second stud on either side of the window.)

"We can be very sure all these dollar-saving changes will be welcomed by builders. But some of the new standards are higher and cost more money. We devoutly hope the builders will not team up to attack these better standards."

"We devoutly hope the builders will not champion the uninformed home buyer's divine right to buy an inadequately insulated house that will cost too much to heat in winter and too much to cool in summer. We hope the builders will not insist on the buyer's unalienable right to take a hot-water heater too small to do its job, or cheaper hot-water heater that will have to be replaced — at twice the initial cost — within two years.

"The automotive industry learned 30 years ago that it could not build a new car cheap enough to compete in price with the values offered in the used car market. So the automobile industry went after, and opened up, a new mass-market for better cars that is both richer and bigger than the cheap car market the auto industry abandoned in 1927. The auto industry is selling far more new cars today at far higher prices by putting new values into new cars that are impossible to find even in two-year-old models.

(Continued on Page 36)
This is an angry, brilliantly funny but deadly serious report about the housing developments that are blighting the landscape and souls of America's suburbs. The misfortunes of John and Mary Drone, who "bought" a nothing-down, life-time-to-pay box on a slab in Rolling Knolls, are simply extensions of the problems that beset nearly everyone who exists on the fringes of a city. Even if the nearest development seems safely zoned from your front door, you will find the Drones and their neighbors disturbingly like your own.

The new suburban slums, by concentrating young couples of similar background, income bracket, and outlook in rows of inadequate houses, have made a stultifying unnatural community. The frustrated residents, anchored to their tiny yards by their colossal mortgages, seek desperately for some form of self-expression. They try to amuse themselves with the wonderful gadgets of our civilization, but the easy credit is hard to pay and their debt becomes ever more burdensome. Surrounded by friendly neighbors but no true friends, they attempt anything from handicrafts to neighborhood sex to relieve their boredom. But the only way out is to move out and that's economically impossible.

Who is responsible for this situation? The builders, whose most useful tool is the chisel? The bankers, who are getting the frosting from this miracle-mix cake? The federal government, who by guaranteeing veterans' mortgages has put a solid base under the whole shaky construction? The local communities, whose lack of zoning laws has permitted these excrescences? The suckers who have bought the houses?

Keats discusses every aspect of life in a development. His account is supported by solid facts and figures but it is presented in personal terms to show you an existence that combines all of the worst aspects and none of the advantages of suburban living.
Associated General Contractors
Observe Ladies' Day

The Sixth Annual Ladies Day of the Associated General Contractors of New Hampshire and Vermont was held at Mountain View House, Whitefield, New Hampshire, June 22.

Some of the activities Saturday included a golf tournament, putting contest, horseshoe pitching, shuffle board, swimming, etc. A social hour at 6:00 P. M., was followed by a banquet, entertainment and dancing.

Over 110 Members of A. G. C. and their guests were present, making this the best-attended Ladies Day since its inception in 1951. Among the distinguished guests were Charles Whittier, Councilor from District #1, representing Governor Dwinell; H. E. Sargent, Chief Engineer, Vermont Highway Department; John O. Morton, Commissioner, New Hampshire Public Works & Highways Department; and John D. Betley, President, New Hampshire Chapter A. I. A.

N. H. AWARDS SHOW INCREASE OF FIFTY-THREE PERCENT

BOSTON — Contracts for future construction in New Hampshire in May totaled $12,793,000, an increase of 53 percent compared to May 1956, James A. Harding, F. W. Dodge Corporation, district manager, reported.

May contracts by the major construction categories compared to the similar month of a year ago showed: non-residential at $4,545,000, up 41 percent; residential at $4,558,000, up 12 percent; and heavy engineering at $3,690,000, up substantially.

The first five month total of construction contracts compared to the like 1956 period showed: non-residential at $11,740,000, down 18 percent; residential at $13,923,000, up 27 percent; heavy engineering at $8,420,000, down four percent; and total construction at $34,083,000, down less than one percent.
Standard Fence Company Selects Stran-Steel

A fast growing concern has recently completed its new building with office, display room and warehouse, located at 2510 Candia Road, Manchester.

Standard Fence Company, under the ownership and management of Bob Kurlansky, has gone all out to provide everything in fencing requirements, whether for the home owner, builder, contractor or industry.

Offering a wide variety of fencing from Realock chain link fence for protection and security, to Walpole Rustic Cedar fencing for privacy, beauty, play and boundary areas. Included in the Walpole line is famous Rustic Cedar furniture, and prefab tool houses, cottages, etc.

Standard Fence Company offers displayed fencing at the new location, has experienced personnel for construction and erection, and extends a cordial invitation to architects and contractors to contact them on any fencing problem.
The new facilities are housed in a modern Stran-Steel building, selected for its low-cost and adaptability. Morrison Booth of Manchester and Laconia handled the sale and detail for Corriveau-Routhier Company of Manchester, area distributors for Stran-Steel.

“WANNA ROOF?”

For the first time TV is now giving away roofs for free. Result: Postal clerks in East Walpole, Mass., headquarters of Bird & Son, which makes roof products, are jet-like busy and blaming Garry Moore.

On his Channel 2 show at 10:00 A. M., Garry announced that he’d give away ten roofs and have them installed. “Need a new roof?”, Garry asked. “No box tops, no rhymes. Just send your name and address and I’ll pick ten winners.”

Bird & Son expected a handful of “May I have a roof, please?” requests. The first day’s mail contained 25,000 cards. Now the we-want-a-free-roof-contingent numbers more than 100,000 and the incoming mail is still piling up. All because Garry asked “Wanna roof?”

One wonders if Garry’s next giveaway will be Yankee Stadium — WITH an overhanging roof.

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HOW TO INVITE A HEART ATTACK

Frank J. Curtis, Vice President of Monsanto Chemical Company, knows how dangerous it is for men to work as hard as they do in the operation of their business.

By way of urging executives to be sensible and take care of their health he has advised the following ten rules which he says are an invitation for a heart attack:

1. Your job comes first; personal considerations are secondary.
2. Go to the office evenings, Saturdays, Sundays, holidays.
3. Take the briefcase home on evenings you don't go to the office. This way you can review completely all troubles and worries of the day.
4. Never say no to a request, always say yes.
5. Accept all invitations to meetings, banquets, committees, etc.
6. Don't eat a restful relaxing meal — always plan a conference for the meal hour.
7. Regard fishing, hunting, golf, bowling, billiards, cards, gardening, as a waste of time or money.
8. Believe it's poor policy to take all the vacation allowed you.
9. Never delegate responsibility to others, carry the entire load yourself at all times.
10. If your work calls for traveling, work all day and drive all night to keep the next morning's appointment.

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Frame: Structural steel.
Roof: Steel decking, rigid insulation, built-up roofing.
Floors: Concrete, asphalt tile, except ceramic tile in toilets and kitchen.
Ceilings: Suspended acoustical tile.
Windows: Aluminum.
Dadoes: Glazed facing tile in toilets and kitchen; hardwood veneers in Directors' Room and Lobby.
Partitions: Lightweight masonry block and movable office partitions.
Electrical: Fluorescent troffers in most areas.
Heating: Forced hot water boiler; roof units with ducts and ceiling diffusers for distribution.
Air Conditioning: Chilled water circulated through same roof units used for heating.

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Partitions: Masonry block or movable steel.
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Ceilings: Acoustical, suspended.
Dadoes: Glazed facing tile in toilets; wood veneers in Lobby.
Windows: Wood Casement.
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Dadoes: Ceramic tile in Toilet Rooms; glazed facing tile in Kitchen.
Floors: Concrete slabs on steeltex and steel joists.
Floorings: Vinyl flooring.
Roof: Wood rafters, boarding, asphalt shingles, copper flashings.
Windows: Wood double-hung sash.
Ceilings: Acoustical plaster in social rooms; hard plaster elsewhere.
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MARSTON ELEMENTARY SCHOOL - Hampton
Above photos by Douglas Armsden
Kittery Point, Maine

Blanchard Stebbins, Inc.
General Contractor

MARSTON ELEMENTARY SCHOOL
HAMPTON

CONSTRUCTION:

Foundations: Concrete.
Exterior Walls: Brick with cinder block backers.
Dadoes: Glazed facing tile in toilets corridors, kitchen.
Partitions: Cinder block.
Roof: Longspan steel deck, rigid insulation, built-up roofing; Laminated arches with Tectum deck in Assembly Room.
Floors: Concrete slabs with asphalt tile.
Ceilings: Exposed steel deck with strips of insulating board in some panel troughs.
Windows: Aluminum awning type.
Heating: Unit ventilators in Classrooms; fin-tube radiation elsewhere.
Forced hot-water system.
Plumbing—Separate toilet rooms for each pair of Classrooms; sewerage ejector pumps. Cabinet kitchenette in Teachers Room. Gas-fired water heater for summer use.
Electrical: Fluorescent lighting using troughs of roof deck as troffers, plastic louvers.

Features:
Classrooms without Corridors; classrooms varying in size by age groups.
Separate Cafeteria and Assembly areas.
Large covered activities porch.

MARSTON ELEMENTARY SCHOOL
HAMPTON

Sub-Contractors and Material Suppliers
Plumbing and Heating—W. J. Parenteau, Manchester.
Electrical—John J. Reilly, Manchester.
Painting—Paterson & Getchell, Portsmouth.
Glazing—Pittsburgh Plate Glass Co., Manchester.
Cement Floors—Connie’s Cement Floor Co., Suncook.
Barker Steel Company

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by

ECONOMY SYSTEM OF LATHING
Manchester, N. H.
Women's Dormitory
University of New Hampshire

Koehler and Isaack, A.I.A., Architects
Harvey Construction Co., General Contractor

The University presented the architects with a clean-cut program, a difficult but interesting site and the ever-present cost factor.

The basic program required the housing of 119 women-students, the matron and attendant service facilities. In addition to the dormitory rooms, the University wished to provide the student with relaxing areas in the form of lounges on each floor, plus the main lounge for guest entertainment. Attendant to the main lounge is a kitchen for light snacks. Laundry areas on each floor plus the main laundry in the basement will solve the feminine needs.

We of New Hampshire are familiar with the puckish sense of humor with which that giant Nature rolled everything from glaciers to rocks around our now picturesque country side. Having done all the mischief and nonsense it could think of, it then covered the rock with overburden, planted lovely trees and waited patiently for millions of years for the University, the architects and the contractor to build a dormitory. The reinforced concrete columns, grade beams are thoroughly anchored in the rock foundations, and the building areas are planned to the contours; the resultant finished building will provide the students with a wonderful setting.

The structural frame is reinforced concrete columns, floors and attic floors. The roof is wood frame. The exterior walls are 8" concrete blocks, 4" brick veneer. Windows are heavy gauge aluminum, sliding. The interior doors are solid core plywood set in steel frames. Interior partitions are metal studs, wire lath and plaster; the ceiling of the rooms painted concrete, interior face of exterior walls are strapped, lathed and plastered; floors are asphalt tile covered. The corridors are of the same wall finish as rooms but have acoustical plaster ceilings.

The summary of costs based on the contract reveals a cost of construction per student far below the national average which is good news to the taxpayer, University and architect. Further analysis of the conditions of site, and of climatic conditions both requiring high investment in sub-surface stabilization and comfort control make the below average cost that much more satisfying.

UNIVERSITY OF NEW HAMPSHIRE
Women's Dormitory

DATA:
Total Cost .................................. $357,000
Sq. Ft. .................................... 24,000
Cost—sq. ft. ................................ $14.50
Number of Students .......................... 119
Sq. Ft.— student ............................. 208
Cost — per student ........................... $3,006

UNIVERSITY OF NEW HAMPSHIRE
WOMEN'S DORMITORY

Sub-Contractors and Material Suppliers
- Plumbing, Heating and Ventilating — W. J. Parenteau, Manchester.
- Electrical — John J. Reilly, Manchester.
- Painting — B. N. Perry & Son, Manchester.
- Steel — Barker Steel Company, Watertown, Mass.
- Glazing — Pittsburgh Plate Glass Co., Manchester.
- Hollow Metal Door Frames — Maurice Laframboise, Manchester.
Women's Dormitory, University of New Hampshire
"The home building industry can profit richly by the automakers' experience. And until we do, the automakers will continue to sell circles around us in competition for the consumer dollar.

"All the new higher FHA standards cost much less to install in a new house during construction than they would cost to remodel into an existing house. (For example: it costs two-and-a-half times as much to insulate an old house; it costs two or three times as much to provide adequate wiring. It costs twice as much to build appliances into an old kitchen.)

"So all the new higher standards would make it easier to sell more houses in competition with the existing supply.

"Let's not be penny wise and pound foolish. Let's be smart and push for acceptance of all the new FHA standards— the ones that will help us build better along with those that will help us build cheaper."

HIGH TEMPERATURE FORECAST

FORECAST — Excessive high temperatures throughout the summer.

Faced with such conditions, most of us turn our thoughts to ways and means of beating the heat. Little thought is given to our plight about six months hence, when we are troubled with bone-chillingdrafty areas about our home.

It may not be Utopia, because there is expense attached, however, discerning parties are fast becoming acquainted with what is known as Central System Air Conditioning.

This method of heating and cooling in one installation really offers the property owner and builders every advantage on today's market. Affording proper temperature control, the system combines heating with forced hot water, with filtered air circulation. For cooling in summer the same system is used with the application of a chilling unit with filtered air circulation.

One of the better known systems of this type is Borg-Warner's Hydraline, distributed in this area by Colonial Supply Corporation of Manchester.

COBE & FOSTER, INC.,
MOVE TO NEW LOCATION

Cobe & Foster, Inc., registered professional engineers, have moved their location to 566 Willow Street, Manchester. Mr. Cobe explained the new location provide increased floor space, allowing for complete stocks of units, parts, equipment etc., under one roof.

Selling wholesale only as air conditioning, refrigerating, heating supply jobbers the firm will continue to represent Typhoon air conditioning. Recently the have been appointed authorized wholesaler for Bendix-Westinghouse hermetic compressors, condensing units and parts.

SANDWICH PANEL
HAS LIGHT WEIGHT

A new building product development lightweight translucent structural curtain wall panels that provide exceptional design freedom at minimum construction cost, has been introduced by Kalwall Corp of Manchester. The panels are prefabricated self-supporting "sandwiches" of Fiberglas reinforced plastic sheets bonded to an aluminum grid. Completely finished for both exterior and interior wall and roof surfaces, they are available in four modular sizes and six colors.

The sections weigh from 1.42 to 1.6 pounds per square foot, depending on thickness, or about one-seventh the weight of equivalent metal sandwich panels. They can be handled easily on the job by one man. A panel measuring four by eight feet and two and three-quarter inches thick, for example, weighs fifty pounds.

Tested extensively in various types of buildings over the past five years, Kalwall panels have proven useful for institutional, commercial and industrial buildings.

Wisdom is knowing what to do next; Skill is knowing how to do it; and Virtue is doing it.

—David Starr Jordan
### Progress Report

of

Manchester Federal Savings

<table>
<thead>
<tr>
<th>GROWTH SINCE FEDERALIZATION</th>
<th>December 1935</th>
<th>December 1956</th>
<th>Gain</th>
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<tr>
<td>Total Assets</td>
<td>$2,669,834.84</td>
<td>$46,841,968.34</td>
<td>1654%</td>
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<tr>
<td>Mortgage Loans</td>
<td>$2,530,668.24</td>
<td>$41,019,225.97</td>
<td>1521%</td>
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<td>Savings Accounts</td>
<td>$2,204,863.49</td>
<td>$58,605,925.70</td>
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<td>Surplus and Reserves</td>
<td>$255,566.25</td>
<td>$4,329,904.57</td>
<td>1672%</td>
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<tr>
<td>Members</td>
<td>2,737</td>
<td>24,586</td>
<td>798%</td>
</tr>
</tbody>
</table>

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AND LOAN ASSOCIATION

156 HANOVER STREET

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Aerial view of Vermont Structural Steel Corp.

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