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WIND-PROOF AND WARM

A good quality building paper, properly placed makes frame buildings weather-tight and affords efficient heat insulation. This should be nailed over the sheathing just before the facing material is put on, taking special care to cover all joints and angles. Let it also be remembered that where the outside wall is built of wood framing, the timber known as the sill, resting directly on the masonry foundation wall, should be thoroughly bedded in cement mortar. This will stop an otherwise open joint, which would admit cold air.

PRECAUTIONS AS TO PLASTERING AND FLOORING

Plastering often cracks because of uneven setting of the building, due to faulty foundation. Lath must be nailed right to insure a good job of plastering. Besides nailing the right distance apart for proper clinching of the plaster, they must break joints at about every seventh lath. Under-flooring should be dressed on one side to uniform thickness. It should not be laid to run in the same direction as the finished floor. Best of all, let the boards be laid diagonally, as it tends to stiffen the building. Under-floors should be laid close together.

CARE OF INTERIOR WOODWORK

Great care must be taken of interior finish. First of all, let no doors and trim be brought to the premises before the building is thoroughly dry and warm. Immediately upon delivery have the painter apply a coat of filler or stain to all sides of the woodwork—yes, the back of the trim, base and panelling, too. This will protect the wood from the effects of dampness. It must be remembered that even ordinary doors require much precaution and care, though a veneered door with a white pine core will withstand much more than ordinary doors.

The interior finish applied, the floors may be laid. This should be done last to avoid unnecessary damage and wear by workmen. Painting and wood finishing follow, of course. This important branch of the work is thoroughly covered elsewhere in this volume.

WORKING DRAWINGS AND SPECIFICATIONS

Every phase of the new home should be clearly indicated in a complete set of working drawings and specifications. The plans should show all dimensions exactly, include details and design, indicate the kind of material, etc. The specifications should further describe details of construction, the kinds of appliances to be used, as in wiring, heating and plumbing; also, the workmanship required, covering fully every trade to be employed. It is wise to obtain the services of an impartial and practical superintendent in order to make sure that plans and specifications are strictly followed.

Above all, let everything about the building be decided before contracts are let and construction is begun. Later changes prove costly and form the "Extras" so much dreaded by the owner, architect, contractor and material man.

It is well for the prospect builder to familiarize himself with all matters discussed in this article. Within these brief limits they could hardly be more than touched upon. Let the home builder learn all he can along the lines suggested, for he will then be able to co-operate all the more with those who are to make his home a reality.
New Hampshire
ARCHITECT

VOL. 9 DECEMBER, 1957 NO. 5

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COVER PICTURE

Holland Memorial Auditorium, Proctor Academy
All Photos by Eric M. Sanford,
Manchester, N. H.

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PUBLISHER
LAWRENCE J. MOYNIHAN
P. O. Box 291
Concord, N. H.
NEW YORK — Building construction costs in the United States have moved upward another three percent for the 12 months ending in September. The ingredients to build almost anything from a mountain or seaside cottage to a metropolitan skyscraper comes with a price tag approximately 148 percent higher than its 1941 counterpart. According to Myron L. Matthews, Editor, the Dow Service Real Estate Valuation Calculator, one of the services offered by F. W. Dodge Corporation, foremost construction information authority, “This means that today, on the average, $2.48 buys as much ‘building’ as $1.00 bought in 1941. The $8,000 house of 1941, exclusive of land and charges other than labor and materials for actual construction, would come today with a cost-tag of $19,840. This makes the current purchasing power of the 1941 building dollar 40 cents. Inasmuch as this is a nation-wide approximation it should be anticipated that its local application may produce results at variance with the facts.”

New England States

This District reports upon cost-samplings received from 21 places. References to a named place mean that place and its environs.

Merging the separate results of samplings from all places indicates that building material prices are averaging about 1% more than 6 months ago. Since the earlier half of the 12 months ending in September registered a “no change” today’s costs for materials are also 1% above a year ago. Building trades wage rates have averaged a 4% six months increase for the current half year, and 5% for the 12 months ending in September. Combining these, overall general building construction costs are indicated to have gone on up another 3% in the 6 month’s period, and 4% for the year. New England costs are averaging about 153% above 1941, and 8% under costs prevailing in New York City.

Spotlighting “highs” and “lows” directs attention to considerable variation between sampling places.

Building material prices show the most pronounced 6 months rise to be 3% at both Lowell and Augusta. For 12 months the greatest increase is 7% at Lewiston. The largest cumulative increase since 1941 is 151% at Portland. On the “low” side Burlington, Vt., reports a 6 month’s drop in material prices of 3% which when adjusted for the 1% rise there 6 months ago results in a net decrease of 2% for the 12 months ending in September. The smallest post-1941 price gain is 84% at Springfield. Generally, material prices are 11% under New York City at Augusta Maine.

The 9 skilled labor trades and laborers are up most for the 6 month period at Lowell, 7%. Lewiston, Me., is up 11% for the 12 months ending in September. Since 1941 wage rates have gone up 190% at both Fall River and New Bedford. Coming nearest to equalling New York City wage rates is Bridgeport where they are 7% under New York. On the side of the least rise are Augusta, Lewiston and Pawtucket, each with a 1% six month increase. The greatest weakness is shown for Augusta where reported wage rates are 5% lower than a year ago, reflecting a union and non-union local condition. The lowest 16-year cumulative gain in wages is 109% at Pawtucket. The widest gap under New York City’s wage rates is found at Augusta where the building craftsmen average 36% less.

Combining the changes in building material prices and hourly wage rates the most marked 6 month overall increase in building construction costs has occurred at Bridgeport and New Britain, each with 5%. For the 12 months period Lewiston costs are shown to have increased 13%.

(Continued on Page 8)
PROF. THOMAS ENTERTAINS
N. H. CHAPTER MEMBERS

Colored slides and a talk on European architecture, old and new, featured the fall meeting of New Hampshire Chapter, A.I.A., held November 21 at the Exeter Inn at Exeter. Prof. George R. Thomas, A.I.A., who recently returned from a tour of Europe, discussed his trip and explained the slides to the architects, their wives and special guests.

A cocktail hour and board of directors meeting was held prior to the dinner, attended by 60 members and guests.

Several architects and their wives took advantage of a visit to the new art gallery at Exeter Academy, where they witnessed an interesting show of contemporary Canadian painting.

Abbott R. Jones of Rochester was advanced from junior associate member to a junior member and Arthur Eldredge of Peterboro was admitted as a junior associate member.

Announcement was made that the first meeting in 1958 will take place at Concord on February 20, with Eugene Magenau in charge of the program.

President John D. Betley presided.

1ST STEP TO SOUND, SUCCESSFUL BUILDING
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DURACRETE
(Continued from Page 6)

Costs are running about 203% above 1941 in Burlington, Vt. Cost to build in Bridgeport and Hartford is about 1% above New York City. On the "low" side of changes Burlington is down 1% for the 6 months ending in September. New Haven registers a 1% decrease for the 12 months. The smallest gain over 1941 is shown for Pawtucket, up 111%. Augusta costs are averaging about 26% under New York City.

CITY-BY-CITY RESULTS FOR DISTRICT NO. 2 ARE SHOWN IN THE FOLLOWING TABULATION:

<table>
<thead>
<tr>
<th>CITY</th>
<th>March '57 to Sept. '57</th>
<th>Sept. '56 to Sept. '57</th>
<th>1941 to Sept. '57</th>
</tr>
</thead>
<tbody>
<tr>
<td>Augusta, Maine</td>
<td>+4</td>
<td>0</td>
<td>+203%</td>
</tr>
<tr>
<td>Bangor, Maine</td>
<td>+4</td>
<td>+6</td>
<td>+203%</td>
</tr>
<tr>
<td>Boston, Mass.</td>
<td>+3</td>
<td>+5</td>
<td>+156%</td>
</tr>
<tr>
<td>Bridgeport, Conn.</td>
<td>+5</td>
<td>+5</td>
<td>+142%</td>
</tr>
<tr>
<td>Burlington, Vt.</td>
<td>-1</td>
<td>+3</td>
<td>+126%</td>
</tr>
<tr>
<td>Fall River, Mass.</td>
<td>+3</td>
<td>+3</td>
<td>+116%</td>
</tr>
<tr>
<td>Hartford, Conn.</td>
<td>+3</td>
<td>+3</td>
<td>+109%</td>
</tr>
<tr>
<td>Lawrence, Mass.</td>
<td>+7</td>
<td>+7</td>
<td>+183%</td>
</tr>
<tr>
<td>Lewiston, Maine</td>
<td>+3</td>
<td>+13</td>
<td>+179%</td>
</tr>
<tr>
<td>Lowell, Mass.</td>
<td>+4</td>
<td>+7</td>
<td>+170%</td>
</tr>
<tr>
<td>Manchester, N. H.</td>
<td>+3</td>
<td>+3</td>
<td>+165%</td>
</tr>
<tr>
<td>New Bedford, Mass.</td>
<td>+5</td>
<td>+5</td>
<td>+141%</td>
</tr>
<tr>
<td>New Britain, Conn.</td>
<td>+2</td>
<td>-1</td>
<td>+126%</td>
</tr>
<tr>
<td>New Haven, Conn.</td>
<td>+1</td>
<td>+3</td>
<td>+116%</td>
</tr>
<tr>
<td>New London, Conn.</td>
<td>+4</td>
<td>+4</td>
<td>+109%</td>
</tr>
<tr>
<td>Pawtucket, R. I.</td>
<td>+3</td>
<td>+3</td>
<td>+109%</td>
</tr>
<tr>
<td>Providence, R. I.</td>
<td>+3</td>
<td>+3</td>
<td>+109%</td>
</tr>
<tr>
<td>Springfield, Mass.</td>
<td>+4</td>
<td>+3</td>
<td>+109%</td>
</tr>
<tr>
<td>Waterbury, Conn.</td>
<td>+3</td>
<td>+3</td>
<td>+109%</td>
</tr>
<tr>
<td>Worcester, Mass.</td>
<td>+2</td>
<td>+3</td>
<td>+109%</td>
</tr>
</tbody>
</table>

GRANGER ELECTED CHAIRMAN OF BOARD

At a recent meeting held in Concord, Alfred T. Granger of the firm of Alfred T. Granger Associates of Hanover, was elected chairman of the New Hampshire State Board of Registration for Architects.

Mr. Granger has practiced his profession in Hanover for many years and is a member of New Hampshire Chapter, A.I.A.

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SEPTEMBER 1949 ISSUE WANTED

Two well read and alert members of New Hampshire Chapter, A.I.A., submitted the following for attention of the publisher of New Hampshire Architect:

"Another short file nearly completed is the New Hampshire Architect 1949 date, which lacks only Vol. 1, No. 2 September 1949" — A.I.A. Journal, October 1957.

The two architects submitting the file above were Horace G. Bradt of Exeter and Eugene F. Magenau of Concord.

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It is said that this is an age of specialization. The art of living has become so complex that no one can master more than a single subdivision of human knowledge and skills. Therefore if a community, or an individual, develops a need for Activity G, then G-Specialists are sought out to fill the need. There is no longer anything for the General Practitioner to do. He knows a little about a lot and a lot about very little. He has outlived his usefulness to society and must either retire gracefully, enter another field, or must himself become a specialist in order to get ahead.

However there are many architects, doctors, lawyers and others, who do not want to specialize. In order to satisfy their desire to be General Practitioners, must they accept the bleak outlook for a constantly diminishing practice, working on projects of decreasing size and importance, until they just fade away?

Most, if not all, of the reasons for wanting to be a General Practitioner, are good ones — the desire to serve one's fellows as persons rather than as people; the desire to serve where such service has not been offered before; the desire for variety; the desire for active participation in community life; the desire to avoid certain unacceptable features of metropolitan living.

The General Practitioner performs an important function, yes, an indispensable one, in an age of specialization. Who else could do the type of work that embraces a member of specialized problems, no one of which is large or important enough to justify or attract the services of the specialist? Or who else would do the "bread and butter" type of work, which, although specialized, is too remote or inexpensive on too small a budget.

The architectural general practitioner becomes in fact a specialist for each project. If he is conscientious, his research will be basic and thorough. If he is competent, he will recognize the need for specialists when it occurs and will use their services where they will do the most good, as he customarily does for ordinary engineering assistance.

One of the greatest difficulties faced by the General Practitioner is that of getting opportunities to do important projects or something more than a minimum budget. He does a creditable job on the small, low budget projects — the most difficult of all. Few masterpieces were ever created on a tight budget, but the local practitioners efforts to do so deserve recognition.

The buildings in this issue by Lyford Magenau illustrate one of the rewarding features characteristic of the general practitioner's work — its variety. Educational, industrial, commercial, semi-public and residential categories are included. They were all interesting to design and build. None were easy. They are uneven in quality of design. They all reflect the orderly use of materials and color in functional arrangements of space to house human activity; and where the element of beauty is present, they also represent good architecture.
Proctor Academy
Stage end of Auditorum

Classroom Wing

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CONSTRUCTION AT PROCTOR ACADEMY
POSED SEVERAL PROBLEMS

by Earle C. Batchelder, Public Relations Director, Proctor Academy

How to blend a modern addition of five classrooms and an auditorium with a Georgian Colonial structure built in 1931 was the problem facing architect Eugene Magenau in his contract with Proctor Academy of Andover, N. H. Proctor's original classroom and administrative building was destroyed by fire in 1931. In its place the school's administration erected a brick Georgian Colonial building in keeping with the traditional architecture of the time. Money was scarce in those days, and the back wall was never bricked up. For years it showed nothing but a tar paper exposure to remind everyone that Proctor's intentions were to build more classrooms and an auditorium.

It was not until 1947 that the school felt ready to make definite plans for completing the 16 year old structure. A plea for funds was sent out, and the original drawings for the addition were made. It was at this point that the architects ran into their first difficulties. Proctor officials wanted the new classrooms to be in keeping with the best of classrooms possible. As one of the parents put it—if you cross a thoroughbred collie with a thoroughbred great dane, you will still get a mongrel. It was this mongrel construction the architects were trying to avoid.

On October 6, 1957 Proctor dedicated the new addition. All parties have agreed that it is definitely not a mongrel. It is of a contemporary design which has been modified to harmonize with the Georgian Colonial on the exterior. The interior is very much of modern styling. Each classroom has a large expanse of windows and each a soundproof ceiling. Green chalkboards replace the traditional blackboard.

(Continued on Page 16)
PROCTOR ACADEMY — The other two walls of this classroom are removable door panels fitted with glass chalkboards and bulletin boards. The panels may be completely removed to make a large area for occasional social functions. Classrooms have acoustical tile ceilings, fluorescent lighting, painted concrete block walls, unit ventilators with "Sill-Line" hot water radiation, asphalt tile floors, and public address system. Draw curtains are fire resistant.

PROCTOR ACADEMY — View of Lobby from entrance to Auditorium. Corridor to left ramps up to join the end of existing Administration building. Corridor to right leads to new toilets and classrooms, one of which is seen through the open door. Lobby has acoustical tile ceilings, cove lighting, ceramic tile walls, walnut trophy case, vinyl asbestos tile floor.
of years past. Three of the rooms are equipped with removable walls which can be dismantled within a couple of hours so that one large room will be available for social functions. A coffee bar has been provided to furnish refreshments for any such social function, and the modern memorial lobby permits the display of the Proctor trophies while at the same time providing a comfortable lounge for guests and visitors.

The auditorium seats 235. Proctor’s Headmaster, Lyle H. Farrell, wanted an auditorium which would afford ideal conditions for the presentation of lectures, dramas and movies, and ideal seeing and hearing conditions while students or guests could sit in comfort. The chairs are permanently attached to the sloping floor. There are no windows in the auditorium so as to ensure better acoustics. All ventilation and lighting is controlled artificially. Every other chair has an arm tablet so that the whole school may be tested en masse.

The stage has completely built in wiring extending to the projection booth for the showing of motion pictures, and is connected to speakers for amplification of lectures and concerts. The total cost of the building was $207,000.

Proctor Academy

Sub-Contractors and Material Suppliers

Plumbing — A. W. Sargent & Son, Inc., Concord.
Electrical—Superior Electric Co., Concord.
Steel Erection—J. Scanlon Co., Inc., Manchester.
Millwork—John F. Chick & Son, Silver Lake.
Glass and Glazing—Pittsburgh Plate Glass Co., Manchester.
Flagstone—Vermont Structural Slate Co., Fair Haven, Vt.

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PLANNING FOR SOUND AT PROCTOR ACADEMY

Incorporated in the basic planning of this school addition was that of sound programming both for auditorium usage and programming of voice and music studies into the classrooms.

Using the basic type of sound engineering a public address system was installed for speaking from the stage to an audience within the auditorium by means of flush mounted reproducers located on the splayed walls to the left and right of the stage.

Further, flush-mounted reproducers were located in each classroom which allow a program from the stage to be broadcasted into these rooms, or during testing periods to allow master instruction control from the control center to the classrooms as a whole or to certain rooms.

This system is designed to give music reproduction well within the hi-fidelity range which in turn may be broadcast into the classrooms.

The ability to speak or broadcast into these additional rooms not only serves as an excellent means of teaching but enlarges the audience that may be reached when an important program is being held in the auditorium.

Another part of the sound system is a privacy intercommunication system between the projection booth and the stage. This system gives immediate, quiet voice communication between these two areas so that during a program slides or motion-picture timing may be most accurate. The system announces calls by visual signals rather than audible bells or voices, which could be disturbing.

Exec-U-Phone Systems, Inc. (Executone) were the suppliers of this system of teaching and communication.
PROCTOR ACADEMY — View of Auditorium from edge of campus. Glass wall and entrance to Lobby to the left. Terrace, platform and steps are paved with slate flagging in full range of colors.

PROCTOR ACADEMY — General view of existing Administration Building (left) still dominating the whole composition in spite of size of the new addition. Portico of the Auditorium is visible through the trees.
View of entrance front from visitors' parking space. The driveway (not shown) goes completely around building, with parking space for 70 cars plus loading and unloading areas. Stainless steel sign letters are floodlighted from lights concealed by shrubbery. Windows are aluminum, glazed with insulating glass, one layer of which is heat-absorbing and glare reducing on east, south and west sides.
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Beede Electrical Instrument Co., Inc.—View of Machine Shop. The curtain wall at left is glazed with glare reducing glass and porcelain enameled panels in aluminum frames and can be easily relocated when the plant is expanded. Structural, insulating and acoustical properties are combined in the structural insulation roof deck which is left exposed.

Beede Electrical Instrument Co., Inc.—View of General Office, Treasurer's Office and Production Manager's Office. Fire-resistant acoustical tile ceiling, flush sprinkler heads, painted block walls and partitions, asphalt tile floor, fluorescent lighting.

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Steel Joists—Fabricated Steel Products Co., Inc., Wollaston, Mass.
Glass and Glazing—Trudel Glass Co., Manchester.
Painting—MacArthur & Sons, Penacook.
Metal Door Frames—George J. Kehas, Manchester.
Beede Electrical Instrument Co., Inc. — View of Assembly Room where nearly ideal conditions are provided by acoustical tile ceiling, lighting intensity of 100 foot candles at working level, filtered air with provision for future cooling, and colors which give maximum visual comfort. Fire resistant construction plus automatic sprinklers will minimize maintenance and insurance costs.

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The gift of Nahum J. Bacheider, Governor of New Hampshire from 1903 to 1905, in honor of his father William Adams Bacheider. The will provided $40,000 for construction, equipment and fees, and $60,000 for a maintenance and book fund. The Superior Court permitted several alterations to provisions of the will which was executed in 1927, including a different site just off the main highway through the town. Some of the landscaping and paving has been completed since the photograph was taken, but it was necessary to omit the retaining walls which would greatly improved the setting on the sharply sloping ground. The warm buff brick, large glass areas and open portico with white painted trim give an inviting aspect to the clean lines of this unpretentious little building.

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Portraits of the donors will occupy the space over fireplace mantel. The brick casework accommodates 2400 volumes but can be expanded to 10,000 volumes. The double-pitched roof beams and purlins are laminated fir. Ceilings are acoustical tile, walls are birch plywood or painted cinder block, floors are cork tile.
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Joseph F. Lampron, Secretary of New Hampshire Chapter, A.I.A., announces the election of the following Chapter Committees for 1957-1958:

CHAPTER ACTIVITIES
Chapter Affairs, Membership, Centennial, Observance, Education, Office Practice, Awards and Scholarship:

PUBLIC RELATIONS
Public Relations, Government Relations, H. Architect, Home Building and Construction Industries, Collaboration with Design Professions:
Richard Koehler, Chairman, Alexander Majeski, Shepard Vogelgesang, Alexander R. James, Carl E. Peterson.

COMMUNITY DEVELOPMENT
Community Development, Preservation Historic Buildings, Research, School buildings, Hospitals and Health:

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