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That the present generations can take the State of New Hampshire's pleasant environment with them — leaving posterity a state of wasteland — is well expressed by the Legislature's attitude toward paying for preservation and orderly change. To date, it won't pay.

The signals are flying everywhere: 'Time Is Running Out.' The clock hands are turning faster and faster against protecting what we have: Not long ago, for example, it took two weeks to dig a house cellar, but with modern equipment it takes less than an afternoon. Seven miles of six-lane, divided interstate highway covering thousands of acres in the White Mountains can be built in under twenty-four months. A hamburger stand complete with parking and leaping neon, can be opened in four months. An apartment building can be constructed in 13 weeks. A wood can be 'dozed flat in a week. A seasonal cottage can be raised in five days. As the design professions well know, sufficient men, materials and equipment could make the state into a continuous city by the time the 1973 Legislature meets.

Chairman Richard Upton of the Governor's Environmental Council, one of the least flappable people in public life, said New Hampshire is at least "two years behind Maine and Vermont" in regulating the environment. Another man of the same stripe, Highway Commissioner Robert Whitaker, said at the land developers' bill hearing that "common sense environmental control . . . is long overdue."

More than 20 bills have flowed from the Council's extensive surveys and reports — most are jammed in the bottleneck created by the Legislative refusal to raise enough money. The pivotal bill (SB 244) regulating land developers is so trapped — it is the irony of the day that proper development of second homes, of outdoor recreation and of tourism are the best hope for raising the standard of living in the North Country. The outlook now is for uncontrolled, haphazard development and potential tourist slums — is the best our generations can do?
GRANITE STATE ARCHITECT

Volume VIII Number 2

MAY, 1971

Notes and Comments .................................................. 6
Central Fire Station, Manchester .................................... 8
Library Addition, Keene State College .............................. 14
Planning for a Model Vacation Trailer Park and Campground ... 22
U.N.H. Dormitory Wins AIA Honors Award ......................... 26
Index of Advertisers .................................................. 32

Cover: Sliding down a pole — still the quickest means of descent — at the Central Fire Station, Manchester. The leaves at the top of the picture fold closed to keep out fumes, noise and insects. Part of an aerial tower truck is at left. Designed by Koehler & Isaak. Photo by John Clemons.

Photo Credits: Pages 8-13, John Clemons; 14-19, Scotty's Studio. 23, John Hyde; 26-27, Courtesy Concord Monitor.

GRANITE STATE ARCHITECT is published bi-monthly under the direction of the president and board of directors of the New Hampshire Chapter, American Institute of Architects, and is the official publication of that chapter. Advertising rates furnished on request. Controlled circulation postage paid at Concord, N.H. 03301. Postmaster: Please send Form 3579 to P.O. Box 108, Concord, N.H.

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Notes And Comments

N.H. Resources Inventory
A comprehensive inventory of natural, scenic and historic areas in New Hampshire was announced this month as a means of developing sound programs for use of these spots and for protecting them. The survey is funded by the New England Regional Commission of the Federal Government through the N.E. Natural Resources Center; Society for Protection of N.H. Forests is the coordinating agency. Forests, wildlife, wetlands, natural wonders, archaeology, wild flowers, river systems, and scenic areas and vistas are among the fields to be covered; a 16-man advisory committee comprising many of the state's leading environmental specialists has been appointed.

The Building Team
A two-day conference discussing the role of "The Building Team," notably, the owners, architects, engineers, contractors and construction materials' manufacturers working in close, deliberate cooperation on a job, will be held as part of the American Institute of Architects 103d National Convention in Detroit June 20-24.

The team concept was articulated recently by Robert F. Hastings, FAIA, president of the AIA, in a speech saying, "The architect five to ten years from now will not be turning out working drawings and specifications, but will be conceptualizing design packages and performance specs so manufacturers can produce systems and sub-systems according to specific needs.

"The manufacturer will design, manufacture, deliver and install systems. The construction manager will see to it that everything will come together properly."
Continued to page 20
There's more to architecture than design, form and floor plans. There's the architect's concern about the liveability of his building and the long term operating costs of the structure.

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Central Fire Station
Manchester

Fire stations are governed by a utilitarian aesthetic: what is beautiful is what works. The new Central Fire Station in Manchester, with a neat though not compelling exterior, is, practically speaking, a work of art.

The building houses five firefighting companies and doubles as the administration and communications center of a 228-man department. It opened early this year and already has been admired by thousands of visitors, including delegations from other cities planning similar projects.

Nicholas Isaak, AIA, of Manchester, was the architect, and he worked closely with Fire Department officials. His associate Richard Dudley, AIA, jokes, "You might not know it, it's designed by firemen." Every area of the three floors shows careful planning, attention to detail, and concern with safety and efficiency.

Everyone Works
Our tour, conducted by Battalion Chief Joseph Griffin, began on the top floor in Department offices. The interior is beige concrete block in the reception area, while some of the offices boast panelling, recessed fluorescent lighting, and suspended acoustic ceilings. These do not, however, house bureaucrats—dressing and shower rooms remind the visitor that administrators often personally oversee firefighting and are as likely to be at the blaze as at their desks.

Perhaps the most important part of the building is the communications center on this second story. In a fire alarm room consoles are manned day and night. Any fire in the city is reported here first by pull-box, radio, or telephone, trucks are instantly dispatched from either the central station or the eight substations around Manchester. As New Hampshire's largest city grows, unused circuits can accommodate expanded equipment and service. In the near-by blueprint and file room important cable diagrams and other records are kept for reference.

For the comfort of the office staff and moreover for the maintenance of this nerve center, the second floor only is air-conditioned.

"Firehouse" Elements
A two-corridor system with color-coded doors leads to the "firehouse" part of the structure. On one side a large classroom with tinted windows serves as a training room. Eventually a library may be established.

Off the parallel corridor lie the barracks. Chief Griffin emphasized that the men are allowed in these quarters only after 10 p.m. and are on alert until an "all-clear" when there is a fire anywhere in the city. Each company has its own
Koehler & Isaak, Architects

Davison Construction Co., General Contractor

May, 1971
Above, first or ground floor of the building, which measures 171 by 92 feet. There is space for 7 vehicles; the Fire Prevention Bureau and public entrance are on right; lockers and lounges in the rear; fuel pumps are outside behind the building. This reproduction is to the same scale as the second floor plan on opposite page. The cellar plan, below is scaled here at 62 1/2% of the size of the other floors as reproduced. The hose tower running up through the structure starts here, amid utilities and storage spaces.

**FIRST FLOOR PLAN**

area, in which the four men on duty have individual sleeping alcoves. Intercom speakers summon them to their trucks. When called they slip into their gear and speed from these prefabricated metal cubicles to one of the three poles, which are accessible from either corridor. Pressure on the pole automatically opens hatches (to keep out fumes from below), and the men slide directly down to the apparatus.

Griffin proudly says: "At night 22 seconds after they receive the alarm their wheels will be hitting that threshold."

**Unique Garage**

This reporter took the stairs. The ground level looks like a highly sophisticated garage. The shiny red trucks are always ready. Battery rectifiers guarantee a quick start. Each company has a bay equipped with water and air faucets, an exhaust system, and a small office, as well as a lounge with kitchen facilities.

The trucks pass through doors with a magic eye, down the gently sloped ramp and on to Merrimack Street. The ramp is heated for winter driving conditions.
while steel plates on the garage floor protect it from the engine and ladder trucks' chains. The roar of the trucks is subdued by acoustic buffering in the grey block walls.

The street level also houses Manchester's Fire Prevention Bureau, which oversees public information and licensing. The fire safety features of the whole building deserve mention. Pullboxes and extinguishers are everywhere, and fire curtains can drop to contain damage in the unlikely event of a fire.

The basement level of the Central Fire Station is its emptiest. It includes storage rooms and gas and natural gas auxiliary power systems, to be activated if the electricity fails. A large trough is used to wash the hoses. The hose tower, a narrow enclosure 65 feet high, also begins in the basement.

Each truck needs 48 50-foot lengths of hose, each of which is worth about $115. Naturally the Department maintains them carefully. The floor of the 65-foot tower is 162 square feet, and just above it are planks on the tower walls to protect the expensive hose couplings. A ladder rises up the sheer wall. Firemen climb it to hang the hoses for drying, an exercise that is an important part of their training.

May, 1971
The raincoats were hung by the helmets with care, in a shot near the living spaces bringing out old firefighting tradition. Below, each company has its own kitchen and dining area.
The Central Fire Station took two years to complete and cost $1.6 million. The structure is concrete-covered steel frame, with brick and mortar infilling. The building, in Manchester's Urban Renewal area, is located next to city police headquarters and near the Hillsborough County Courthouse in what is called the Civic Center Project.

**Touches of History**

Structures like this one often replace the nineteenth-century fire stations that form an appealing part of the Granite State's architectural heritage. On a sunny spring afternoon I saw fireman George Bouchard standing in front of one of these red brick stations, the home of Engine-Ladder Company 5. He showed me around his Webster Street station.

Continued to page 29
That an institutional library may feature color, light and space as well as making Queen Nefertiti comfortable amid the books is well brought out by the facility recently modified and enlarged at Keene State College. One might ask, why the too-doo over an addition to a library, but this project obviously multiplied the value and appeal of this structure on the growing, lively campus in Keene.

Interiors have been made more inviting so that Christopher Barnes, Librarian, reported that the building enjoys a great deal more academic and less social use than in the past. A sense of openness and variety has been imparted to this necessarily modest-sized contemporary building serving 2,000 students and faculty.

**Color and Light**

Furniture, especially the chairs, features high colors (most chairs are red or yellow; even the book stack shelves add interest, with light yellows and light greens). There is ample glass in walls and doors, wall-to-wall carpeting, and dozens of movable carrels (portable desk nooks) afford privacy to students.

Deep brown wooden panels here and there, on walls, at corners and for some doors contrast with an off-white interior color generally in use. New lighting, replacing exposed tubular fluorescent
An exterior view on Appian Way shows most of the L-shaped addition to the second floor, identified by slightly lighter brick. Thorne Art Gallery with its exterior mobile is on left; main entrance is just left of the bank of windows. The L's long limb is horizontal, as the plan shows; all the space for periodicals is new.
The Periodical Index Room, which is opened out by employing glass. Carpeting is wall-to-wall; chairs are red or yellow. Leading from this space are periodical stacks, microfilm and reading room.

May, 1971
Much of the addition comprises stacks and, wherever there's a bit of space, portable carrels for study. Below, Periodical Reading Room, with carrels as well as conventional furniture.
lamps with new fluroescents recessed in the ceilings, doubled light intensity throughout the library and improved spaces' visual impact.

Essentially, the addition to the building, the Maher Library opened in 1963, added considerable space to the second or top floor, changed the lighting, changed color schemes and added practical touches to both floors. The building is entirely air-conditioned and a small wing contains the Thorne Art Gallery. The recent work carried on the original steel frame construction; the birch exterior is set off by limited white trim, and lightweight concrete blocks are employed inside. The impact of the work, as Mr. Barnes emphasized, has improved and enlarged the library's scope far beyond the square footage involved.

New Facilities

New space on the upper floor totals 9,195 square feet; total cost of the addition and related work was $234,223. Besides new book stacks and study space (as well as windowless cubicles where faculty members may isolate themselves to conduct research or correct exams), the library has added a Microfilm Room; Periodical Reading Room; Periodical Index Room; stacks for periodicals; and space for an IRS Room.

The latter, Mr. Barnes said, along with the microfilm space, are among the leading developments in improved library service anywhere. Here, the IRS, instead of representing the initials of the tax collector, stands for Information Retrieval Systems.

The IRS Room will contain banks of films, film clips and video and audio tapes as well as players and projectors for them. Students and faculty may quickly obtain information desired from these sources. Eventually, they may dial IRS programs wanted from remote units to be installed elsewhere in the library and in classrooms and dormitories around the campus. Like the microfilms, one advantage of IRS is that, like it or not, film and tape need less space than books.

Modifications on the first floor included convenience changes to offices for the staff of six librarians and six clerical employees. Minor alterations were made in the art gallery, whose distinctive mobile occupies an outside wall. Within, a large-size but not ungracious replica of the sculptured head of Queen Nefertiti observes the rows of books and the parades of students in the big first floor reading room, adding to its flavor with her distinctive smile.

May, 1971

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NOTES continued from page 6
to serve the needs of the people who will use that building."

Among subjects to be covered at the team conference June 21-22 are: a) 'Federal Construction — It's A New Ball Game,' b) 'Building Team Management and the Changing Roles of Traditional Disciplines;' c) 'Critical Factors Affecting the Team's Performance' (including, finance, codes, labor and the environment); d) Small Firms ... Growth Through Systems-Oriented Management Techniques;' and e) "The Construction Manager ... What Is His Function?"
The sessions are sponsored jointly by the AIA and the Producers' Council, Washington, D.C., "as a positive move to accommodate the changes" rapidly unfolding in construction and design processes.
The AIA convention includes considerable coverage of problems of the environment. Three panels are 'Should There Be New Patterns Of Human Settlement?' 'How Do We Best Use Our Resources To Meet Basic Human Needs Now?' and 'What Do We Have To Give Up To Create A Living Environment?'

In the Legislature
Most major environmental legislation before the New Hampshire Legislature will have to wait upon availability or not
Continued to page 28
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May, 1971
In the spring when the good days come and the land dries men like to get on their old clothes and heavy shoes and tramp around in the woods, a perfect antidote for Winter's state of cabin fever and a welcome exposure to the promises of Summer. Such an expedition took place recently near Campton on the site of a vacation travel trailer park, tent campground and recreation area which has set out to pioneer new approaches for this kind of facility in New Hampshire.

The rocketing growth of tent camping in the state and much of North America is well accepted; not so well known is the parallel explosion in use of travel trailers for vacations. These bulky, blocky contraptions — a dwelling on a light truck — are familiar ornaments on New Hampshire roads, handy substitutes for land and cottages which are beyond the financial reach of many — or best suit many families' penchant for wandering.

(Ramada Inns, a large chain of motor inns and restaurants with reasonably posh appointments is building 'camp inns' to accommodate these trailers. Its recent survey estimated there will be 7.5 million of these vehicles in use after 1975. The first two are planned for Orlando, Fla., near the new Disney World amusement park.)

Branch Brook

In Campton, the place is called Branch Brook, a 200-acre tract where work is underway by a New Hampshire corporation largely backed by Concord men to build initially a travel trailer park of 150 sites and 50 tent sites. Though most of the 170-odd campgrounds in the state emphasize tent camping after the established fashion Branch Brook believes the greatest growth potential is in the trailers (it will not cater to the long residential trailers).

John Hyde, Concord engineer and president of the Phidaux Corp., Concord, explained that the trailers have a much greater potential since many may be used the year 'round. The park intends to stay open all year being located at the edge of the White Mountain National Forest as well as a cluster of prime ski areas.

"Emphasis has been put on low density sites, offering full facilities and full privacy," Mr. Hyde said, while reconciling development with the best in land use and conservation practices. Founders of the company also include a number of men identified with conservation and

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other public service activities, including Robert Reno and Charles Leahy, Concord lawyers; John Hardie, Concord banker; William F. Jordan, Concord machinery firm head; and Frederick S. Geller, Keene. To carry out the objectives Sasaki, Dawson & Demay, Watertown, Mass., was retained as landscape architect to design the area; appropriate engineering services were provided and all in all a deliberate effort to create a top-drawer recreation facility was set in motion.

The land once included the old Stephan’s Motel (units were built in a barn) and lies between the Pemigewasset River and U.S. Route 3. Interstate 93 runs north-south just across the river; Exit 28 is about a half mile away. A covered bridge on the tract belonging to the town of Campton crosses the West Branch of the Pemigewasset, the two streams meeting near the property’s southwest corner.

A Far Cry

A pond created by the motel on the branch is to be enlarged and improved for swimming; a smaller wading area for tots is planned upstream (the branch is rated suitable for swimming). Long range plans call for a swimming pool, bath-

house and saunas, all a large and far cry from the familiar, old-time tenting grounds with a brook but with scarcely anything else where the state’s camping industry started (it now caters to well over half a million people yearly).
The pond will be tripled eventually to accommodate canoes as well. The motel-barn is to be converted to an adult social center, with TV, lounges, game rooms and fireplace; a recreation center for teens would be established in a new separate building. The covered bridge is to be set aside for pedestrians only, a new bridge over the branch to handle vehicles. A Baseball diamond and tennis and badminton courts are also planned, as well as play sites for small children.

Wheeled Resort

The core area at the covered bridge and existing barn-motel site would also contain park offices and utilities. Roads from there lead to clusters of trailer sites; each cluster, of roughly wheel shape, will hold eight trailer sites. This comes to six sites per acre, which Mr. Hyde said is well below the average in the state. Space and vegetation will afford privacy, he said, and the sites will be above the floodplain level.

These sites are west of the pond and core area; the tent and tent trailer sites are being set up on lower land in the woods bordering the river. In all, eventual plans call for a total of 400 sites. Design provides for easy conversion to more intensive residential or commercial uses. Tests reported show optimum conditions for septic systems; an artesian well provides over 200 gallons per minute.

The park will open with 100 sites on limited operations this August. Branch Brook is all in all an example of a growing fashion — the old New England complete resort with facilities for sports and socializing on the grounds — and guests who bring their own accommodations. In short, a wheeled resort. Other campgrounds in the state are moving in this direction, offering improved facilities for trailers or tents as well as a variety of activities on their premises.

The Pemi River borders Branch Brook for 6,000 feet. On the day of our tramp it moved like an immense, deliberate living thing and since the tragic closing of Lincoln's paper mill it was cleaner and more inviting than it has been for nearly 50 years. - S.W.
Hot water heat without plumbing is embodied in a new type of baseboard heating system which combines the best advantages of hydronic heat and electric heat while minimizing the disadvantages of both.

It's called electro-hydronic heating. Each of the baseboard heaters is a self-contained unit. An electrical element in each unit is immersed in water which is sealed in a copper tube. As the element heats the water, it causes it to circulate through a finned part of copper tube and back over the element.

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The electro-hydronic baseboard heaters are 9½ inches high and from 20 inches to 9 feet in length.
Christensen Hall, above, at the University of New Hampshire, Durham, winner of one of ten National Honor Awards for architectural excellence made this month by the American Institute of Architects following judging of 550 entries. The building was designed by Ulrich Franzen, AIA, New York City, and provides dormitory lodging for 450 men and women. Harvey Construction Co., Manchester, was the general contractor. The jury noted the job was a low-budget project adding, "A clean-cut structure, well-sited, well-functioning . . . an intimate scale in dining, social areas, corridors and activity spaces . . . results in a very human quality."

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Crow Island School, Winnetka, Ill., a radical design when commissioned in 1940, received the AIA 25 Year Award. Three other New England buildings were among the ten Honor Award 1971 winners: Children's Hospital Medical Center, Boston; Avco Research Lab, Everett; Design Research Building, Cambridge, all Massachusetts.

Building Wage Levels Eased
The state law requiring that the highest wages in the appropriate area be paid on jobs involving state money was repealed for projects costing under $500,000; wages will float and may be negotiated on these jobs. On work above that figure the highest prevailing wages in the area where the job is underway will continue to apply. Rep. C. Robertson Trowbridge, R-Dublin, sponsor, had offered a bill floating all state-project wage payments; he called the compromise a step in the right direction, with savings of up to 10 per cent possible for schools, libraries and other public facilities.

2d Home Buyers Guide Issued
The Land Use Foundation of New Hampshire, Concord, has issued its "Guidelines for Vacation Home Buyers," detailed information and do's and don'ts based on data developed by a 100-member professional land developer advisory & review board. Copies $1 plus 25¢ postage at LUF at 7 South State St., Concord.

May, 1971
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NOTES continued from page 20

of moneys to pay for proposed new agencies, regulations in new fields needing attention and tightened enforcement. Defeat of a broad-based tax bill was seen as putting the State in an unprecedented pinch.

The bill establishing an Environmental Protection Department (SB 244) is the largest piece of legislation to come from Gov. Walter Peterson's Environmental Council's extensive surveys. The council's recommendation for a large, umbrella-type department covering regulation of major sources of pollution, as well as an agency for regulating land developers, has to date been broken into two parts (the legislation finally surfaced after weeks of drafting, redrafting and negotiations with affected groups).

SB 244 would regulate developers but there is a glaring question as this is written on how to provide the $422,000 needed to fund it for the coming biennium. "This bill would have passed easily two years ago, when there wasn't such a crunch about money," said one conservation leader in Concord. The Environmental Council, of which Richard F. Upton, Concord, is chairman, and the Society for Protection of N.H. Forests, Concord, have led a campaign seeking enactment.

The bill also regulates drilling, mining and excavation; buildings for electrical utilities; any structures covering a ground area of 60,000 square feet or more; floodway or floodplain land; and high elevation land. Another Senate measure (LSR 1867) sets up the Water Quality Department, combining the Water Supply & Pollution Control Commission and the Water Resources Board.

Another Council recommendation is covered in Senate LSR 1866, with the new Water Quality Dept. to plan, build and operate all municipal sewage and waste treatment facilities. There are many, many other bills pending; the

Continued to page 29
NOTES continued from page 28

best summary available (apart from obtaining copies and interpretations of all bills) is offered by the Society for Protection of N.H. Forests, 5 South State St., Concord.

Bottles and Pests
Two environmental bills have been signed by the Governor, the first giving the Pesticides Control Board authority to prohibit or restrict sale and use of certain pesticides. Another act establishes an interim study of problems of bottles and can disposition, mostly whether or not to return to returnable containers; report to be made at 1973 Legislative session. (The AAA reported in May that, nationally, Americans throw away 28 billion bottles yearly, 48 million cans, 20 million tons of paper, as well as 100 million tires and 7 million autos.)

Gas for Gas Buggies
Connecticut Department of Transportation is testing natural gas as a low-pollution fuel for autos, using a test car with two 400 cubic foot tanks in the trunk (equivalent of 8 gallons of gas). Mileage was found to be the same in a year's testing, and natural gas would cost less once a network of such service stations was established. Polluting emissions would be cut up to 90 per cent by natural gas, the department reported.

FIRE STATION continued from page 13
which is a mile or two from the Central Station.
It dates back to 1887 and is obviously what Bouchard calls it, "a regular old firetrap." However, the building has no posts to impede traffic and contains all the fundamentals of the modern firehouse: bright pole, barracks area, even card tables. All, of course, are less elaborate than on Merrimack Street. Because the station was built for horses, ventilation is so poor that a stench seems almost to linger after half a century.
One hopes that for the safety of their citizens New Hampshire towns will replace ancient firehouses with attractive, effective, safe structures like the new Manchester station.
And one also hopes that old structures can be saved. In East Concord, the old firehouse serves as a community center and a charming link with the steam engine era. - Ken Paul.

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Save the Mills Drive
The Save the Mills Society of Laconia has to late this month received a total of $43,000 toward its goal of $100,000 for rehabilitating the early Belknap and Bushiel buildings; the sum represents grants contingent on the society’s raising a parallel amount.

Plans are moving ahead for a Forestry and Logging Museum to be located on a 100-acre tract between Gorham and the Glen House on Route 16 in the White Mountains. A number of companies and individuals concerned with the forestry industries have been active in planning and fund-raising, for which the Society for Protection of N.H. Forests, Concord, is the coordinating agency.

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ON & OFF DRAWING BOARDS
Design work underway or recently off drawing boards and out to bid or under construction includes efforts for two Laconia State School buildings as well as a plan for Mt. Washington’s Summit.

The Prescription Center, drug store/office building in Concord, was designed by Guy K.C. Wilson, AIA, Concord. He is working on plans for a law firm office building on Park St., Concord, like the center in that city’s Urban Renewal Area.

Ground has been broken for the big Welfare Dept. Building, near the Highway Dept. headquarters, Concord; it was designed by Fleck & Lewis, AIA, Hanover. The Soldiers Home in Tilton, is nearing completion, having been designed by Alexander Majeski, AIA.

Work is underway on the Laconia State School structure replacing the Sanborn Building; Frank Barrett, AIA, Hanover, designed it. Another building proposed for that school is being designed by Stephen P. Tracy, Durham.

John Benson, AIA, Manchester, has designed the Manchester State Industrial School special infirmary building. In Keene, John R. Holbrook & Associates, AIA, drew the design for altering a large supermarket building to a bank. Along with its design for the proposals to revitalize the Mt. Washington Summit, Koehler & Isaak, AIA, has St. Martin’s Roman Catholic Church, Somersworth; an addition to Pembroke Academy, and the Manchester telephone building on its list.
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