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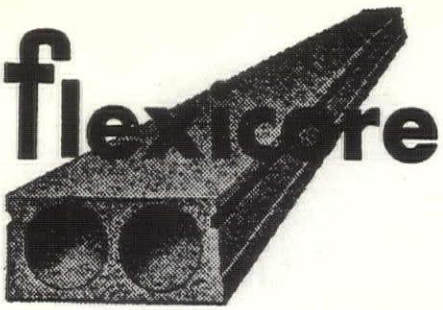

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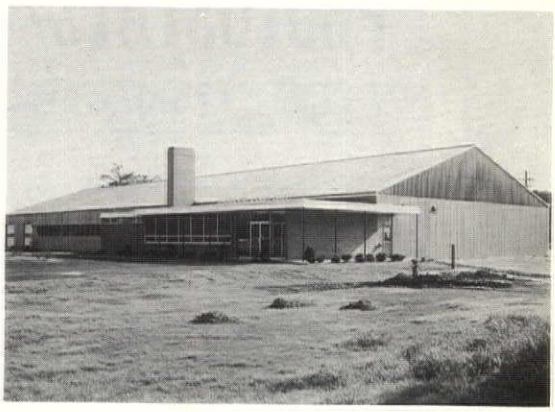

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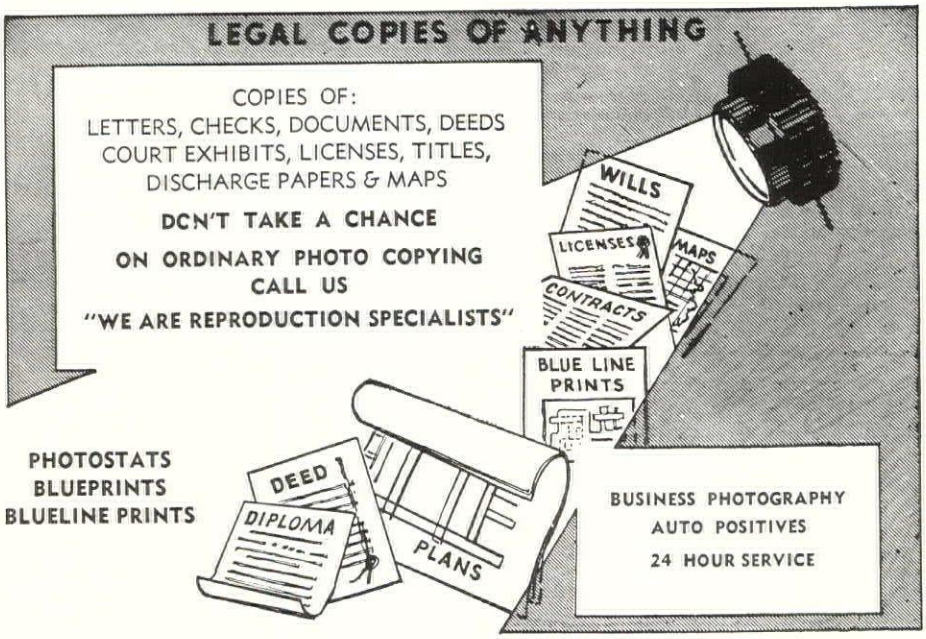

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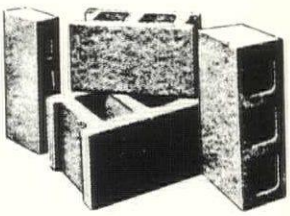

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The President's Message

The fascinating romance of home building — the pursuit of ideals founded on years of delightful delving into the mystic tomes of building lore — often distracts the mind from the more prosaic, practical consideration of materials and construction.

The average home builder has not had the experience to decide technical questions whose disposition determines the measure of satisfaction his home will yield him.

He should not, however, ignore the advantages of being sufficiently informed to discuss the important phases of building. So the main essentials are here briefiy outlined.

THE BUILDING SITE

The selection of the building site has a great deal to do with the finished home, and is really the keynote to whether the dwelling, which is to be erected, will merely be a house to live in or a real Home.

Consider carefully which way you wish your house to face, whether to the rising sun in the east with a shady front porch in the afternoon, to the setting sun in the west with the back yard cool and shady in the early evening, the south with pleasant sunny rooms in the cool months, or to the north with its summer advantages.

Also determine if you want an inside lot or a corner with more air and sunlight.

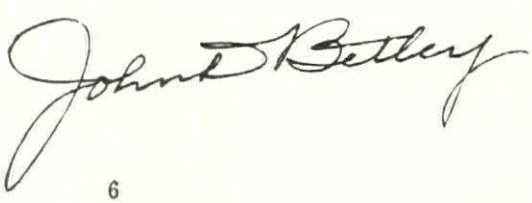
Study carefully the distance from business, schools, churches, stores, parks and places of recreation. In the larger cities transportation problems are important, and it is a decided advantage to have several ways of getting about.

In some municipalities where special assessments are levied, after the location has been tentatively made, you should examine carefully and learn whether any special assessments for sidewalks, pavements, lighting, sanitary and storm sewer have been levied, and whether any are unpaid on the property you are about to purchase. These assessments are not always levied for the street directly adjacent to the property, but may be from streets a block away, and in cases of sanitary and storm sewers are sometimes levied against property several blocks away from where work is being done.

Also learn how close the water and gas mains and electric service are to the property and whether stubs have been put in from all underground lines.

The next step is to insist on an Abstract of Title showing all the transfers of the property in question, or an insurance policy guaranteeing the title issued by a responsible Title Guarantee Co. The Abstract or Guaranteed Policy should be examined by an able attorney, as a small expense at this time may save a great deal of worry and needless expense later.

In all cases of transfer of property, secure a Warranty Deed and have it recorded on the county records immediately after receiving it.



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VOL. 9 AUGUST, 1957 NO. 1

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COVER PICTURE

Kidder Press Company, Inc., Administration and Office Entrance, Locust Street Plant.

KALWALL CORPORATION HONORED AT AIR-LIFT CEREMONIES

Left to right: John Stanhope, President, Kalwall Corporation, Manchester; Mrs. Katherine Howard, Deputy U. S. Commissioner General to the World's Fair; Edward Stone, Architect of the U. S. Pavilion; John D. Betley, President, New Hampshire Chapter of the American Institute of Architects; Robert Keller, President, Keller Products, Inc., Manchester; Miss Ross, Public Relations Assistant U. S. Commissioner General's Office; Mrs. Edward D. Stone; Paul Nicholson, Assistant Coordinator, U. S. Building Design and Construction.

Architect of the year, Edward D. Stone, honored New Hampshire and New Hampshire's own firm, Kalwall Corporation, by attending the Air-Lift ceremonies. Edward D. Stone, who incidently was featured in Architectural Record in July and is the architect commissioned by the American Institute of Architects as the architect on the American Pavilion Building at the Brussels World's Fair, stated in his speech to the dignitaries and crowds gathered for the Air-Lift ceremonies that: "We would not have known what to do if we had not found this product Kalwall to make the roof that we designed. This material fitted exactly what was required and I was pleased this New Hampshire firm had a material ready for our design." Kalwall, the new light weight building material which is used for walls as well as roofs, was loaded in huge Pan-American cargo ships and flown direct from Manchester Airport to Brussels, Belgium.

Continued on next page

The building this is to be used on, will be 341 feet in diameter, and cover an area equal to three football fields. The huge translucent roof is shaped like a bicycle wheel, but instead of spokes, cables will be used. There will be no posts in the entire area. This wheel type roof will be held by columns under the rim.

The plastic roof is the plastic panel Kalwall, manufactured by Kalwall Corporation, 41 Union Street, Manchester, New Hampshire. This is manufactured 4′ wide, 10′ long and 2¾″ thick. The panel consists of a decorative aluminum grid core with fiberglass plastic outside skins. The core and skins are bonded together under heat and pressure. The panel is a development of our New Hampshire Corporation and is patented.

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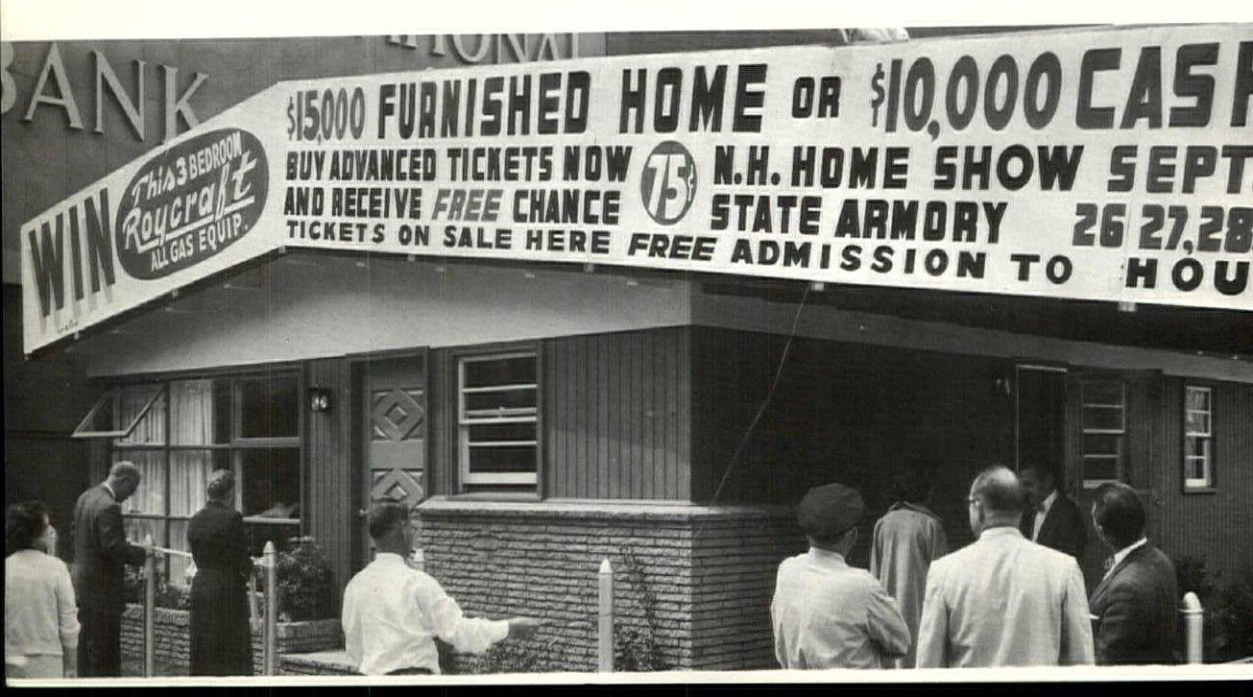
Motor Repairing

Members of the Home Show Committee of the New Hampshire Home Builders Association at opening of Roycraft model home. Left to right: Phil A. Paquette, Theodore J. Kenick, Maurice Beliveau, Alphonse Corriveau, Arthur G. Archambeault, Gordon Davison, Mayor Josephat T. Benoit, Andrew O'Malley, Roland Vallee, Armand J. Beliveau, Edward J. Roy, Robert Gamache, Francis J. Driscoll and George Morrissette.

Left to right: Charles S. Nims, Manchester Savings Bank; Edward J. Roy, President Roycraft Construction Co., Inc.; Armand J. Beliveau, President Home Builders' Association; Josephat T. Benoit, Mayor of Manchester.



NEW HAMPSHIRE HOME BUILDERS SPONSOR EXHIBIT

Announcement has been made that the New Hampshire Home Builders Association will sponsor a New Hampshire Home Show at the State Armory in Manchester, September 26-29. This show is to have 125 exhibits with more than 1,000 products on display.

The New Hampshire association has engaged John Owen, president of Expositions Corporation of America of New York, to produce the exposition. Mr. Owen has produced more than 100 such expositions and has served as consultant for Cuba's World Trade Fair.

Next month's exposition will be the largest show of its kind ever staged in New Hampshire and is expected to draw an attendance of 40,000 persons during the four days.

Special events will include a builders' night, Nashua night and Concord night. A giant stage show which will include famous stage personalities and awarding of prizes will be among the highlights of the exposition.

Somebody in New Hampshire will be the proud owner of the $15,000 home which is now on display in downtown Manchester, when the grand prize is awarded to the lucky ticket holder.

The first home ever built in the heart of a city in the history of America, is now on display at the corner of Elm and Market streets in the city of Manchester. The home will remain in its present location until the final night of the New Hampshire Home Show, when it will be awarded as grand prize to the lucky ticket holder, officials of the New Hampshire Home Builders, sponsors of the show have announced.

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Dear Charlene:

We were shocked to hear today of Stewart's sudden death. The untimely passing of a man in his prime is always cause for sadness. Yet, after the first shock, one reflects how in this case it was undoubtedly a passing from death unto life. No one could reasonably ask that such suffering as he had latterly known should be extended; the Lord has in His mercy taken away.

The agony and frustration of his recent state of health must have been maddening. To go to the office but not to be able to do much at his drafting board, and not to be really well, must have discouraged him and disheartened all who knew him. You at home who knew him best saw the darkest side, which he seldom showed to the rest of us. For you, too, his going from us, though it seems so hard, is a release from tensions which at times must have been close to unbearable.

When I think of Stewart's devoted work for his Church, I think of his long service as clerk of St. Paul's Parish; but I think, too, of his eager willingness to place his professional skill and wise counsel at the disposal of the most needy churches in the Diocese. He was never too busy to drive many miles to look over and advise. The last time I talked with him he had telephoned to thank me for the opportunity of going to Sanbornville to see their parish house. The people of Sanbornville, appreciative though they were to have the benefit of his consideration, were not so joyous as was Stewart to have a chance to help them.

It is good to think of his having larger scope for his talents, and a heavenly body (as St. Paul calls it) without ache or stiffness to obey him. Surely the mansions of the blest will be taking on a freshness of line and even greater loveliness of form, now that Stewart is at work. And when we shall go ourselves to "walk about Sion, and go round about her," to "tell the towers thereof" and "mark well her bulwarks, consider her palaces," (Psalm 48), it is pleasant to think that we shall see upon them the unmistakable and unfettered hand of the master craftsman whom we knew.

"The souls of the righteous are in the hand of God, and there shall no torment touch them. In the sight of the unwise they seemed to die: and their departure is taken for misery, and their going from us to be utter destruction: but they are in peace. For though they be punished in the sight of men, yet is their hope full of immortality. And having been a little chastised, they shall be greatly rewarded: for God proved them, and found them worthy for himself." (Wisdom 3:1-5)

God keep you, all three.

ROGER BARNEY

from a letter to Mrs. Lyford, July 11, 1957, written by the Ven. Roger W. Barney, Archdeacon, Episcopal Diocese of New Hampshire

CONSTRUCTION CONTRACTS UP 10 PERCENT IN JUNE

NEW YARK — June contracts for future constructon in the United States totalled $3,243,486,000, an increase of 10 percent over the same month last year, F. W. Dodge Corporation, construction news and marketing specialists, reported. Total construction contracts for the first half of 1957 amounted to $16,958,005,000, up five percent from the comparable period last year.

Commenting on the total contract figures for the first six months of this year, Thomas S. Holden, Dodge vice-chairman said, "The record to date leaves little room for doubt that the dollar volume of construction activity for the year 1957, as a whole, will exceed last year's all-time high."

Contracts for non-residential buildings were valued at $1,186,448,000 in June, 16 percent above the year-earlier level. Nearly all types of non-residential buildings shared in the increase; the largest gains were registered by hospital buildings and manufacturing buildings. For the first six months of this year, non-residential building contracts totalled $5,970,747,000, five percent higher than the corresponding period of 1956.

June contracts for residential buildings amounted to $1,555,049,000, down four percent from a year ago. The entire decline was accounted for by a decrease in contracts for one-and-two-family houses. Residential building contracts for the first half of 1957 were valued at $6,483,314,000, five percent below the first half of 1956.

The number of housing units contracted for in June totalled 86,549, a drop of 12 percent compared to June 1956. The number of housing units for the first half of 1957 amounted to 499,490, a decline of 11 percent from the comparable 1956 period.

The sharper decline in unit volume than in dollar value in the residential category can be accounted for by the trend toward larger and more costly homes.

MAGENAU ATTENDS WASHINGTON MEETING

A Special Committee on Student Activities was recently appointed by Institute President Leon Chatelain, Jr. and the Board of Directors. An all day meeting at the Octagon was held July 26, to study and make recommendations on the relationship of students to the Institute; and to make recommendations concerning other Institute policies relating to student activities.

Thymio Papayannis of M. I. T., President of the National Association of Students of Architecture, met with the Committee and made an excellent presentation of the students' point of view.

New Hampshire was represented on this Committee by Gene Magenau of Concord. Other members are Bergman S. Letzler, Chairman, of Louisville, Kentucky; I. Lloyd Roark, Jr., Overland Park, Kansas; George F. Pierce, Jr., Houston, Texas; Harold D. Hauf, Rensselaer Polytechnic Institute, Troy, N. Y.; and Elliott L. Whitaker, Ohio State University, Columbus, Ohio.

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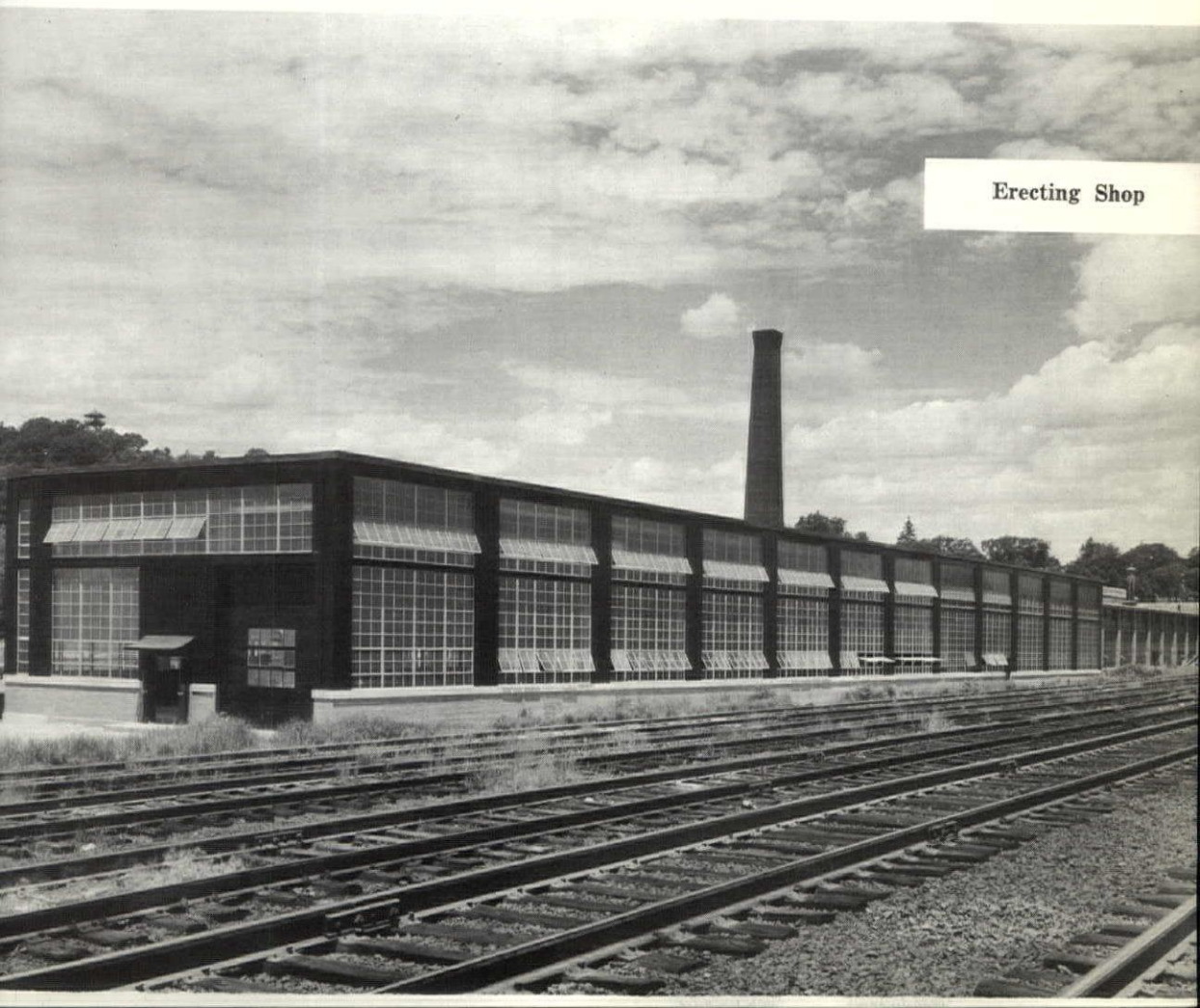

Erecting Shop

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The original Kidder Press Company, manufacturers of printing presses and equipment, was established in Boston, Massachusetts, in 1880. Sometime later it was purchased by Samuel J. Moore, founder of the Moore Business Forms, Inc., so that he could have his own printing press manufacturing plant.

In 1898-99 the plant was moved to its present location on Broadway in Dover, New Hampshire. In 1928 it appeared that more space was needed so the United Printing Machinery Plant on Locust Street was purchased from the owner, J. F. Sheppard, and then Mr. Sheppard became Vice President and General Manager of both plants.

It became apparent at once that more erecting space was required at the Broadway Plant, so in 1929 the first large addition for Bench and Erecting was completed by Ames Construction Company of Somersworth from plans made by J. Edward Richardson.

There seemed to be ample space for almost twenty years, then due to more sales and demands for quicker deliveries on printing presses, it was decided to start a building program which has been carried on to the present date. The Engineering Department has been enlarged four Different times and the main office more than tripled in size. The first large machine shop addition was completed by Harty Construction Company of Boston in 1950 from plans by Maurice E. Witmer. In 1954 a large Bench and Erecting addition was completed by Swanburg Construction Company of Manchester, and in 1956 still another large addition by the same firm, both from plans by Mr. Witmer. Also in 1956, an addition to the machine shop was completed by the Cote Construction Company of Van Buren, Maine, from plans by Mr. Witmer. Two large additions were also added to the storehouse during this same period.

(Continued on Page 22)

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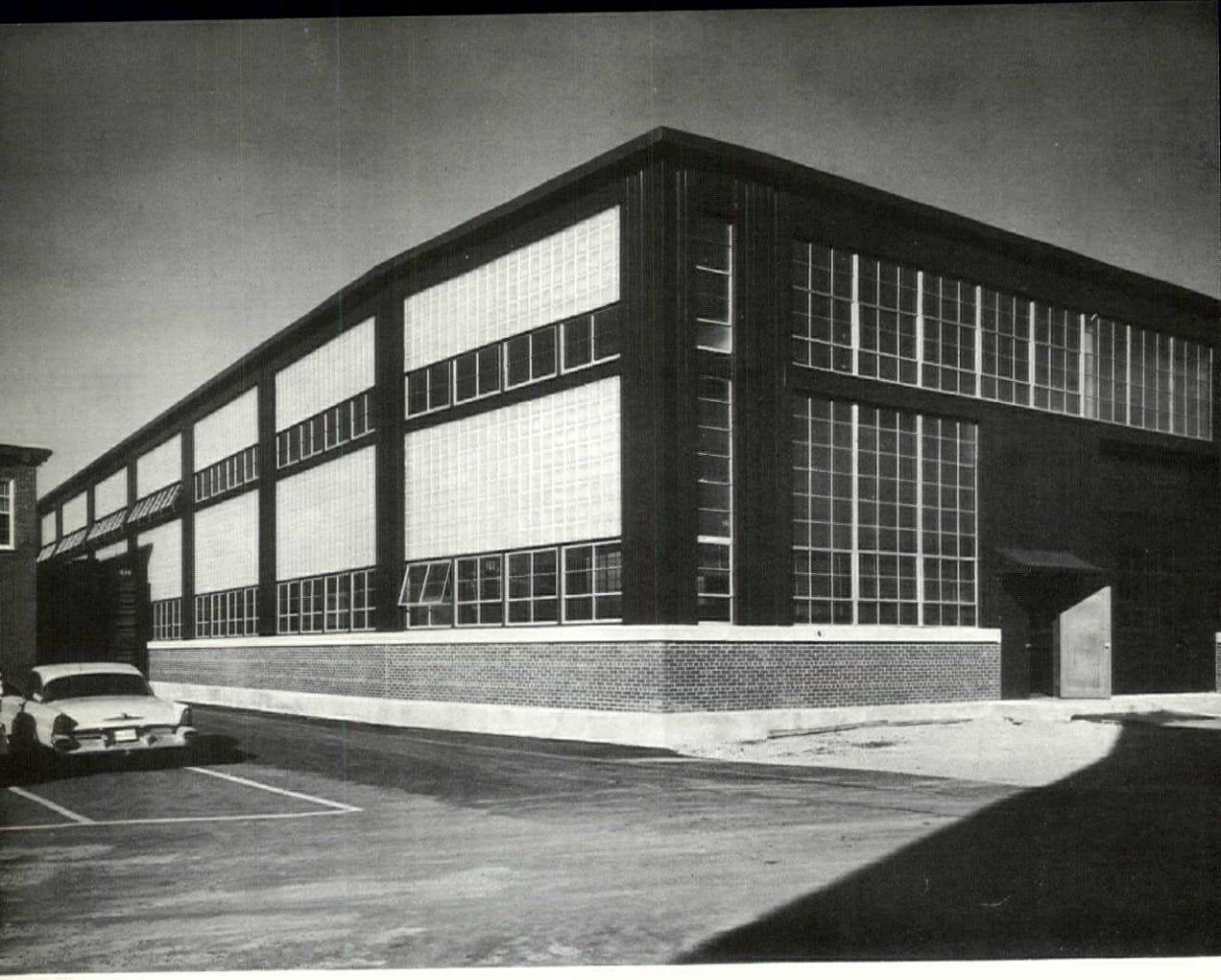

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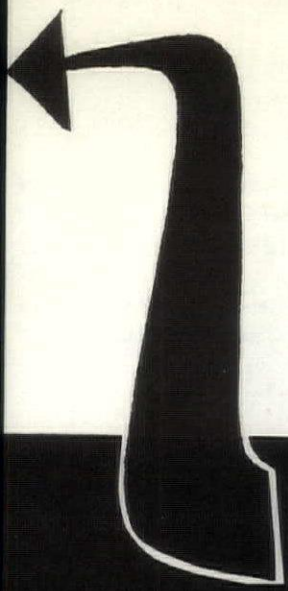

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(Continued from Page 16)

At the Locust Street Plant more space was also required, so that in 1946 an addition was erected at the rear of the building to provide space for spray painting, drying, and so forth. In 1952 a mezzanine floor was erected within the monitor space the entire length of the building. The major change and additions have just been completed by the Cote Construction Company from plans by Mr. Witmer, which adds not only a large area of working space but also an entirely new office. Storage space has also been added to the wood frame building during this time.

The Broadway Plant manufacturers all of the printing presses required by the Moore Business Forms for all of its branches, and also various types of printing presses for the converting trade. Some of the types are: Flexographic, for printing cellophane and polyethylene; Gravure, used a lot in printing frozen food wrappers; and four, six and even eight color letter presses for printing bread wrappers. Slitters for slitting paper or card stock are also manufactured.

At the Locust Street Plant, sometimes called the Sales Register Division, the autographic register, as sold by the Moore Business Forms, is manufactured. Other business machine attachments are also produced for electric typewritters, and so forth. Paper feeding devices are also being made under a large contract for the International Business Machines Corporation.

KIDDER PRESS LOCUST STREET PLANT

Sub-Contractors and Material Suppliers

Roofing—M. J. Murphy & Sons, Dover.

Painting—William W. Turnbull, Manchester.

Waterproofing—Insuro Chemical Co., Inc., West Upton, Mass.

Acoustical Tile Ceiling—Pitcher & Co., Cambridge, Mass.

Reinforcing Steel—Barker Steel Company, Watertown, Mass.

Steel Joists and Sash—George J. Kehas, Manchester.

Structural Steel—Hussey Manufacturing Co., North Berwick, Me.

Cast Stone—Cambridge Cement Stone Co., Allston, Mass.

Hardware—Treat Hardware Corp., Lawrence, Mass.

Unit Panel Office Partitions—Bader Company, Burlington, Vt.

Sanymetal Toilet Partitions, Philipps Doors and Frames—Maurice Laframboise, Manchester.

KIDDER PRESS ERECTING SHOP

Sub-Contractors and Material Suppliers

Steel—Lyons Iron Works, Inc., Manchester.

Roofing—A. W. Therrien Co., Manchester.

Painting—Herbert Paul, Manchester.

Fenestra steel wall panels, sash and roof deck —Maurice Laframboise, Manchester.

Waterproofing — Insuro Chemical Co., Inc., West Upton, Mass.

KIDDER PRESS MACHINE SHOP ADDITION

Sub-Contractors and Material Suppliers

Electrical—M. B. Foster Electric Co., Portsmouth.

Roofing—M. J. Murphy & Sons, Dover.

Painting—Herbert Paul, Manchester.

Structural Steel—Lyons Iron Works, Inc., Manchester.

Reinforcing Steel—Barker Steel Company, Watertown, Mass.

Waterproofing — Insuro Chemical Co., Inc., West Upton, Mass.

Philipps doors and door frames, Fenestra sash and roof deck—Maurice Laframboise, Manchester.

KIDDER PRESS MACHINE SHOP

Sub-Contractors and Material Suppliers

Heating and Plumbing—Womersley & Co., Portsmouth.

Roofing—M. J. Murphy & Sons, Dover.

Waterproofing — Insuro Chemical Co., Inc., West Upton, Mass.

Painting—D. F. Shea & Co., Nashua.

Sanymetal partitions, Philipps doors and frames, Fenestra sash—Maurice Laframboise, Manchester.

Cast Stone—Cambridge Cement Stone Co., Allston, Mass.

Plumbing Fixtures—Kohler Company, Boston, Mass.

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NORTH HAVERHILL ELEMENTARY SCHOOL
ADDITION

This Elementary School addition at North Haverhill was designed to replace elementary school facilities in the communities of Haverhill Corner, East Haverhill, Center Haverhill and Pike thus centralizing the town's elementary school system.

Alterations to the present building done at the same time include the conversion of the entire original basement into a cafeteria and kitchen, the installation of a complete new lighting system, sound system, clock system, and mechanical ventilators.

The new addition has poured concrete foundations, exterior walls brick, cinder block backup, interior partitions cinder block painted. Floor slab on grade except over boiler room which is reinforced concrete. Roof frame is wood joists for the classroom portion, wood joists and steel girders for the activity room. Floor finish asphalt tile throughout except in the toilets where it is ceramic tile. All ceilings are acoustical tile. Roof construction is wood deck, rigid insulation and built up tar and gravel roof. All sash are steel with glass blocks in the activity room.

Electrical work includes incandescent fixtures, program clock system, sound system and fire alarm system. Plumbing includes all fixtures, new water entrance service, new septic tank and sewage disposal system. Heating is a two pipe steam system with zone control from a new cast iron boiler in the new addition under the office and toilets. Direct radiation is used throughout except in the activity room where there is a unit ventilator. Fuel is #2 oil. Complete system of mechanical ventilation is included and an incinerator.

NORTH HAVERHILL ELEMENTARY SCHOOL

Sub-Contractors and Material Suppliers

Heating, Plumbing and Ventilating—Fitzmorris Plumbing & Heating Co., Inc., Whitefield.

Roofing—Major L. Rodd Company, St. Johnsbury, Vt.

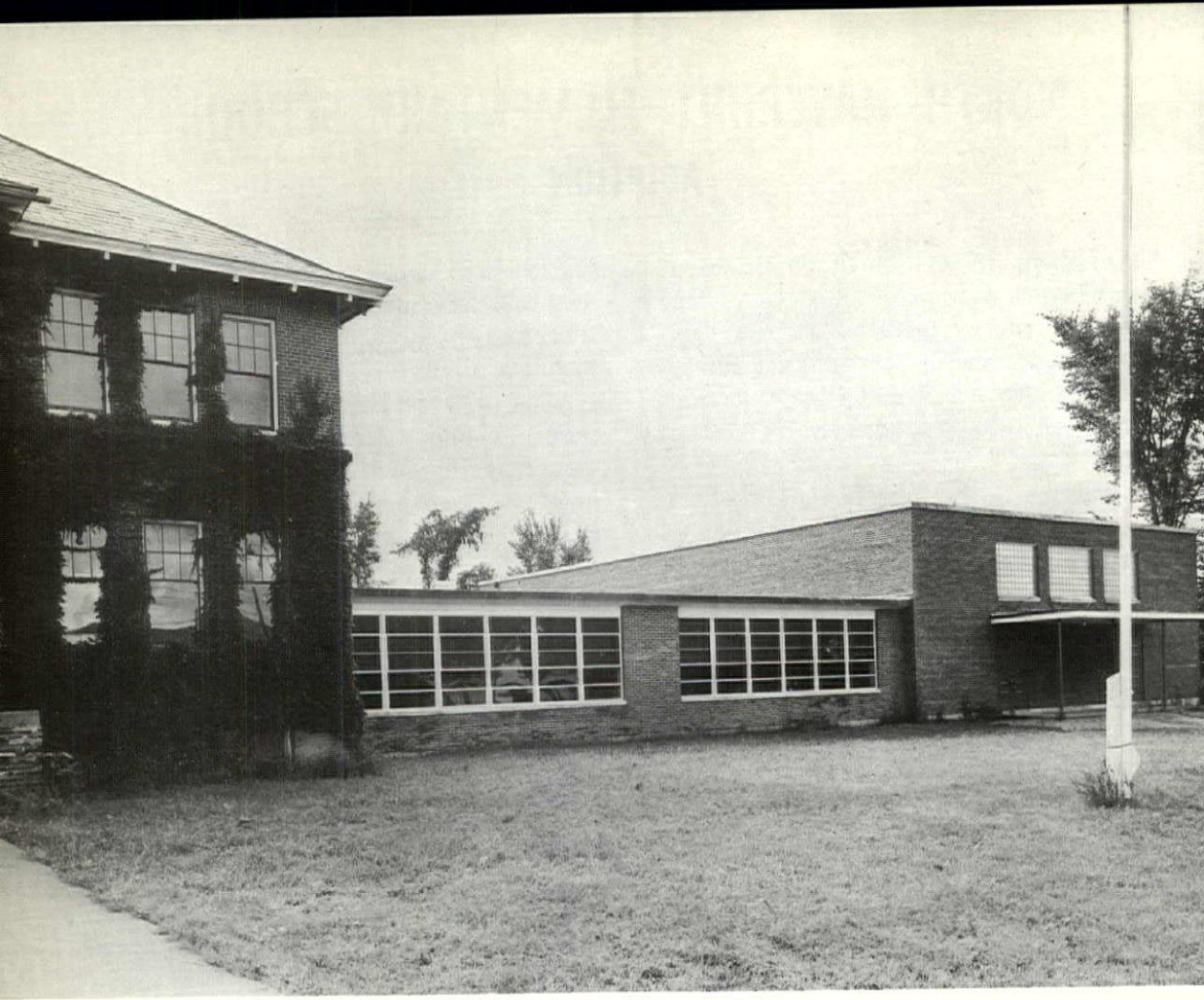
Structural Steel—Vermont Structural Steel Corp., Burlington, Vt.

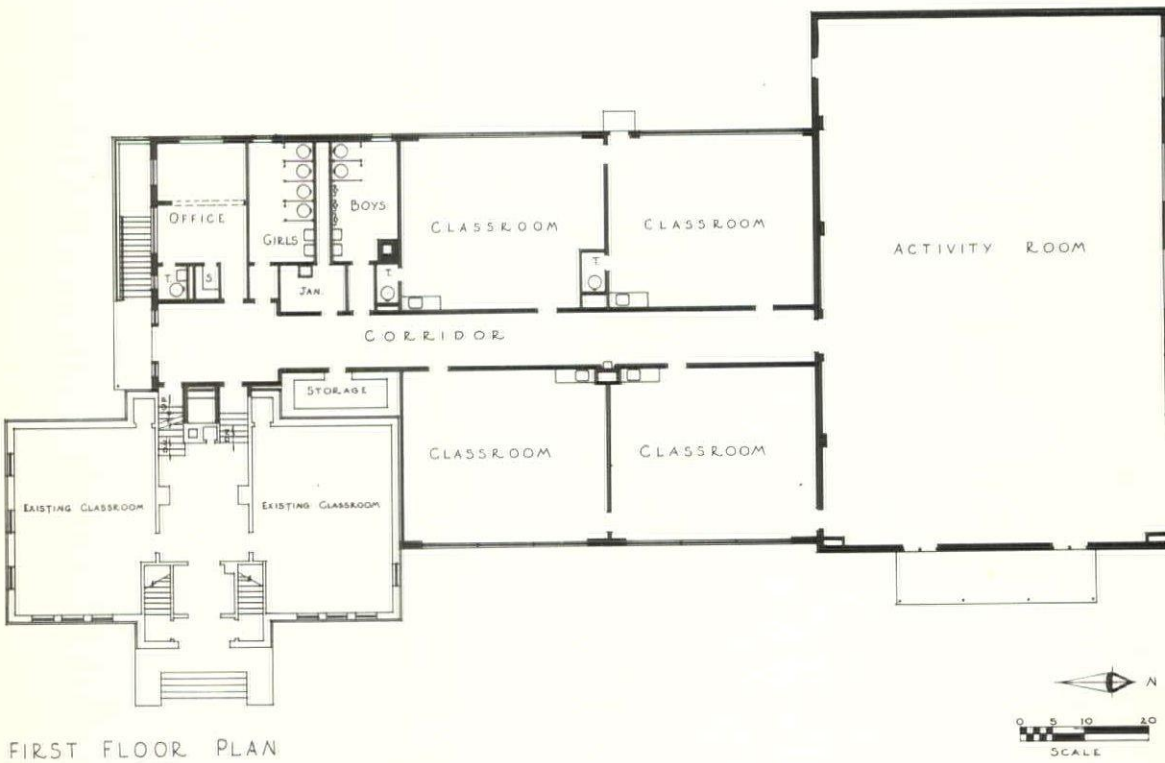
Sanymetal Toilet Partitions,. Fenestra Steel Sash, Philipps Steel Door Frames — Maurice Laframboise, Manchester.

Following is a cost breakdown on the North Haverhill School:

	Cost	*% of Total Cost*	*Cost Per Sq. Ft.*	*Cost Per Cu. Ft.*
STRUCTURE	$ 82,510	71.5	$ 7.36	.47
PLUMB., HEAT., VENT.	25,543	22.1	2.28	.15
ELECTRIC	7,302	6.4	.65	.04
COST OF ADDITION	$115,355	100	$10.29	.66
ESTIMATED COST OF ALTERATIONS	$ 10,000			
TOTAL COST OF BUILDING	$125,355			

TOTAL VOLUME: 174,876 cu. ft.—FLOOR AREA: 11,212 sq. ft.—DATE OF BIDS: February 17, 1956. CEILING HEIGHTS—Classrooms 10'- 0"—Activity Room 19'- 0".





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Remote blower-condensers are used to completely eliminate the use of water. In addition, a new system is employed to utilize the blower-condensers to ventilate the warehouse area in summer and to provide over 200,000 BTUs of heat in winter.

Fresh-air is drawn from the warehouse area, passed through the condenser, and forced by centrifugal-blowers through a duct system having a damper-control to permit warm-air from the condenser being exhausted out-doors in summer but re-circulated into the warehouse in winter. A considerable saving in fuel cost will result by utilizing heat from the condensers which ordinarily would be wasted in winter-time. This is probably one of the first applications in Northern New England where blower-condensers are installed inside the building for winter heat-utilization. The complete system was planned, supplied, and installed by Humphreys Inc.

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Foundations are reinforced concrete, first floor is 6" reinforced concrete slab on grade. Second floor is reinforced concrete construction over the first floor refrigerated and service areas. All refrigerated areas are insulated with 4" of Styrofoam. Roof construction is precast concrete beams supported on lally columns and carrying bar joists. Roof construction is steel deck, rigid insulation and built up tar and gravel roof. Exterior walls of the warehouse are 8" filled concrete blocks with reinforcing bars. Exterior walls of the trailer dock, refrigerated areas and second floor area are brick with cinder block backup. Interior partitions are cinder block in the service areas with moveable wood and glass partitions in the office area. Office areas are finished with asphalt tile floors and acoustical tile ceilings. Plumbing: a new complete system of water supply and drainage including rainwater and sanitary drainage with septic tank and disposal field. The building is sprinklered throughout. Electric: incandescent fixtures in warehouse, fluorescent fixtures in office. Heating: automatic #5 oil fired cast iron boiler. Warehouse has revolving unit heaters, office and packing areas are completely air-conditioned.

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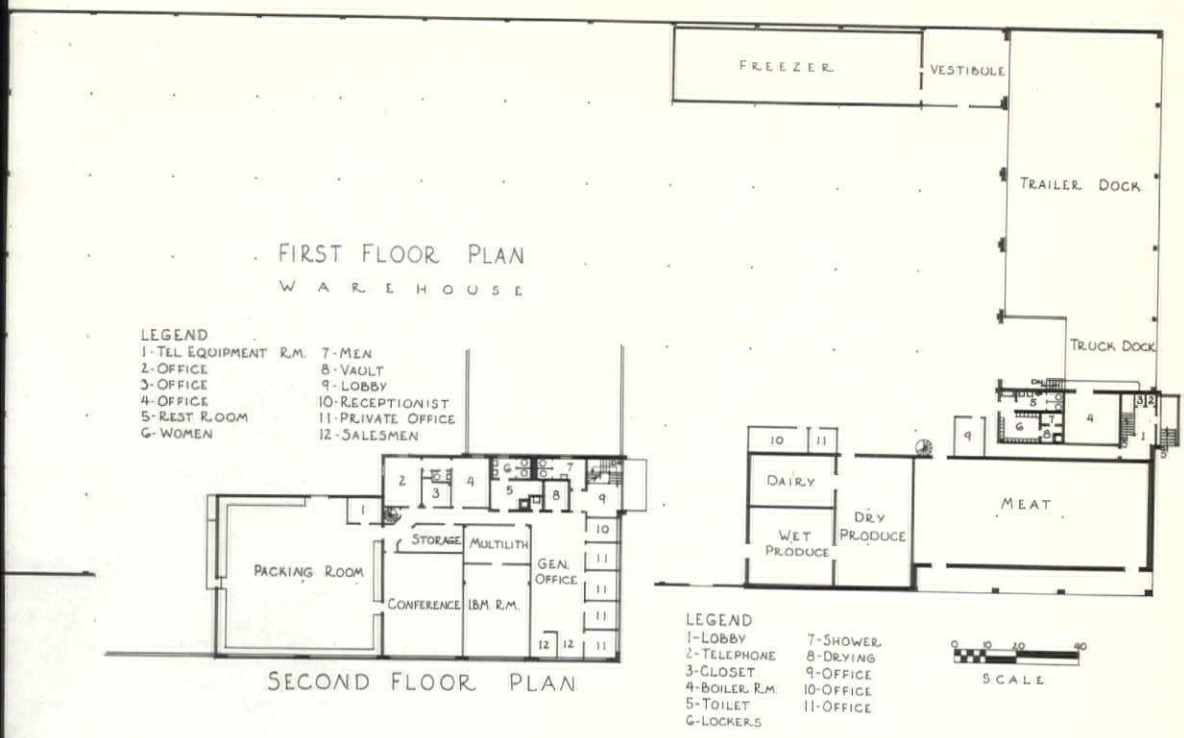

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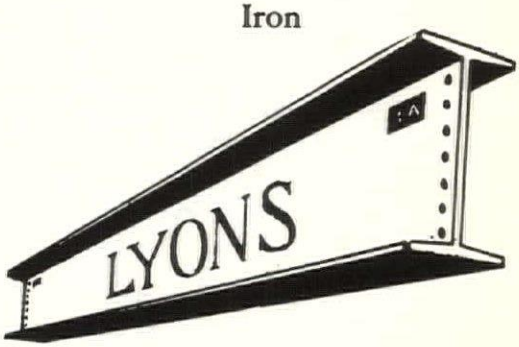

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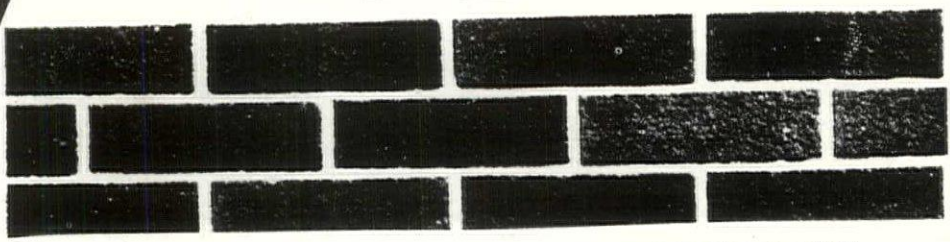

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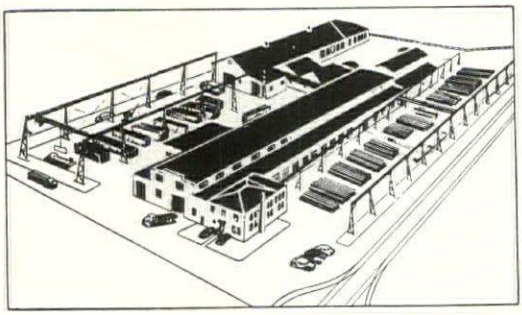

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