

SOUTHERN ARCHITECT

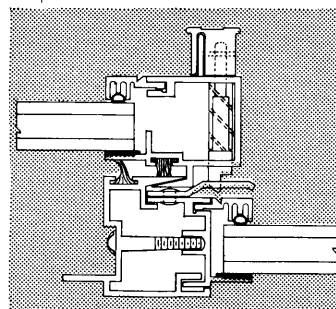


OCTOBER
1963



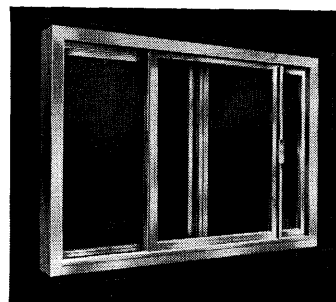


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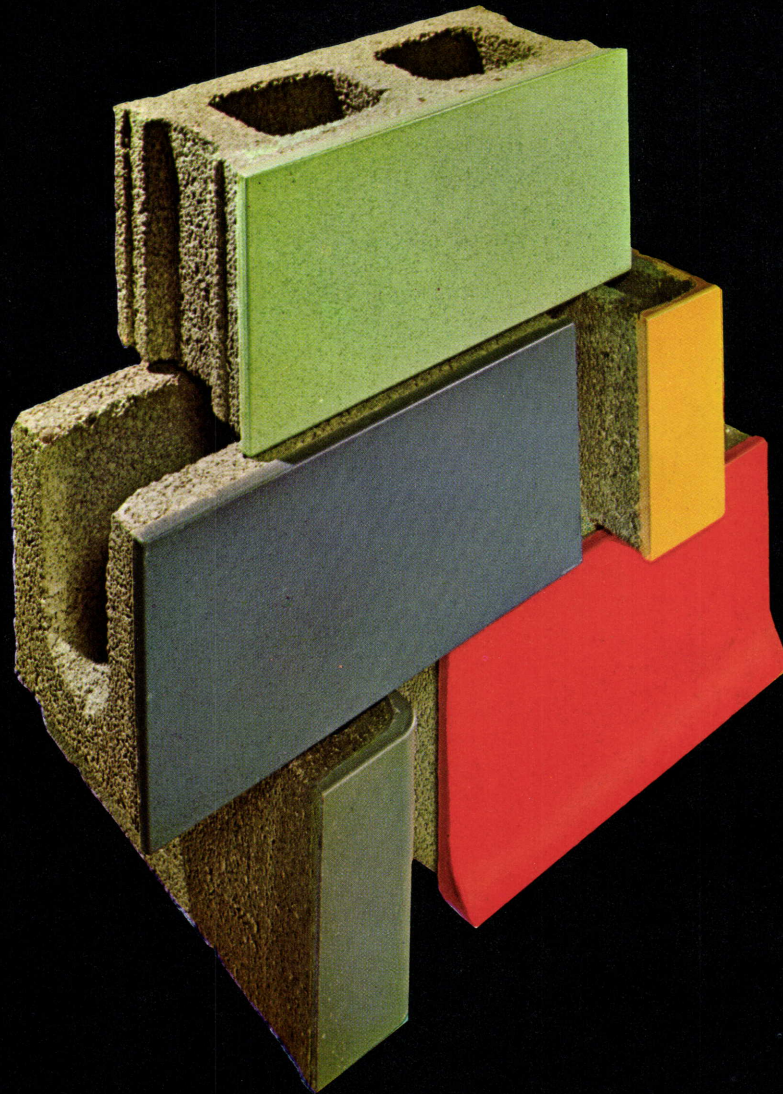
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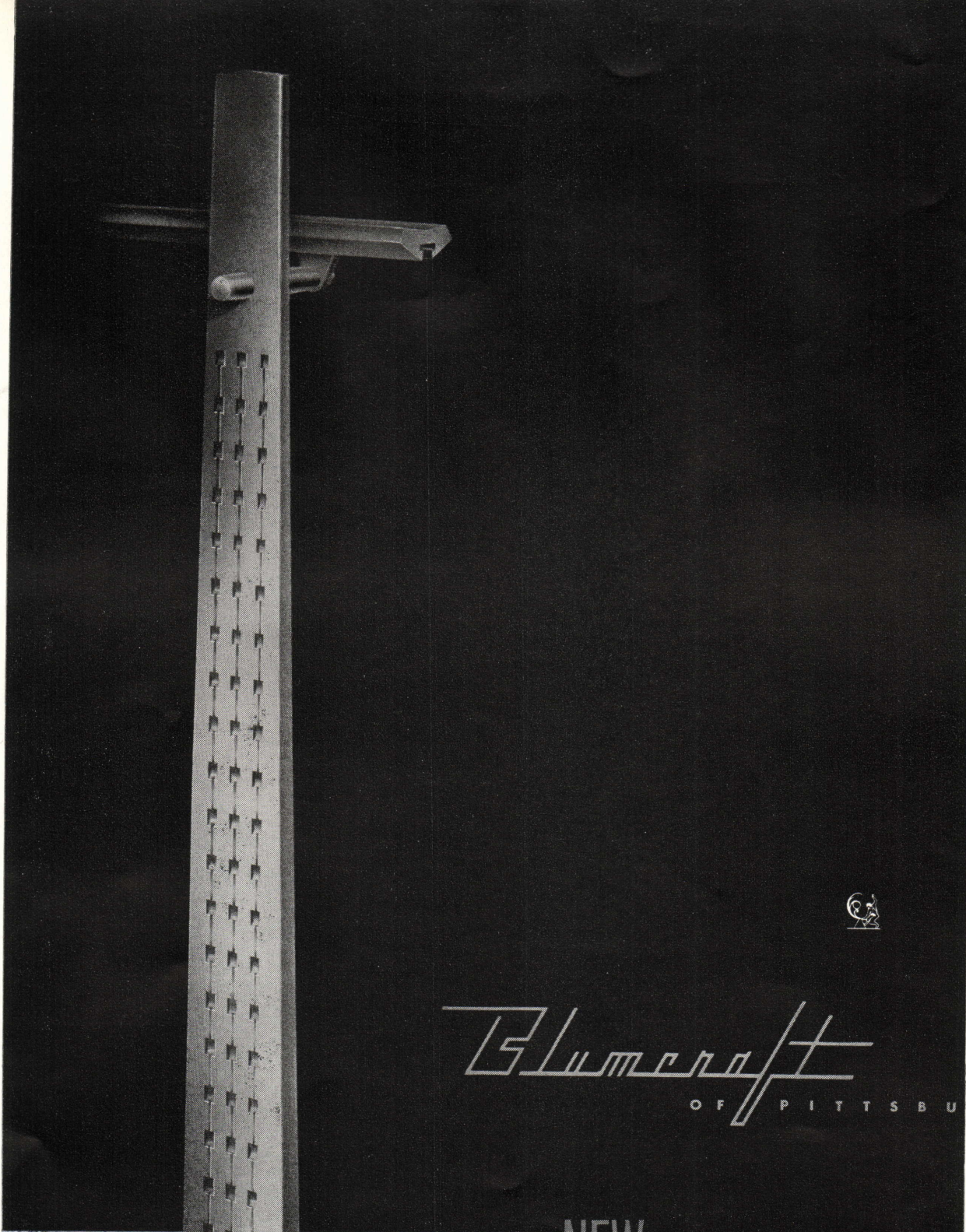
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OCTOBER 1963

VOLUME 10

NUMBER 10

SOUTHERN ARCHITECT



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Have you ever stopped to realize to what extent our Banks, Savings and Loan Associations and Insurance Companies are a working part of our economy today? Through loans or purchases of Bonds they support our economy from the National level right down to our local levels.

On a local level Banks and Savings and Loan Associations are becoming the backbone of community life. By providing insurance on savings accounts more and more people are using these organizations as a means of regular saving.

With millions on deposit in savings our Banks and Savings and Loans provide much of the capital needed for new construction, from residences of all sizes to multi-story commercial buildings. We can see the effects of this building boom all around us. The quality of the architecture in these structures is not always good and in the best interest of those concerned.

Many of the buildings that are built with Bank or Savings and Loan Associations monies are not always designed and constructed by qualified and licensed professionals. Look around you and you will agree that some buildings are much better than others in many respects from looks, quality of construction function and ease of maintenance.

It seems to me that our Banks and Loaning Institutions could do much in the future to insure better building types by being sure that qualified persons have been utilized to carry out this planning and construction for all types of building.

Our Banks and Savings and Loan Associations make these loans and are in a position to insure that qualified professionals are utilized to turn out these new construction projects. If all loaning agencies would be more particular in this phase of their operations our cities and towns of the future would be much better examples of soundly built, well designed, attractive buildings.

A handwritten signature in dark ink, which appears to read "Arthur D. Johnson". The signature is fluid and cursive, with a large loop at the end.

There must have been men who saved and men who borrowed and men who lent even in the caves of Altamira, but the earliest records of loans which have come down to us are the ones made by the temples of Babylon about 2000 B.C. By the time of fourth century Greece, there were private firms which accepted deposits at interest, made loans, changed coin, and arranged credit between cities to avoid the transfer of coin. It is a long way from those crude beginnings to the modern bank with its drive-in windows and installment loans and Christmas Clubs, but have banks or, for that matter, people REALLY changed very much?





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SAVINGS
& LOAN

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SAVINGS

owner:

FIRST FEDERAL SAVINGS & LOAN

sanford

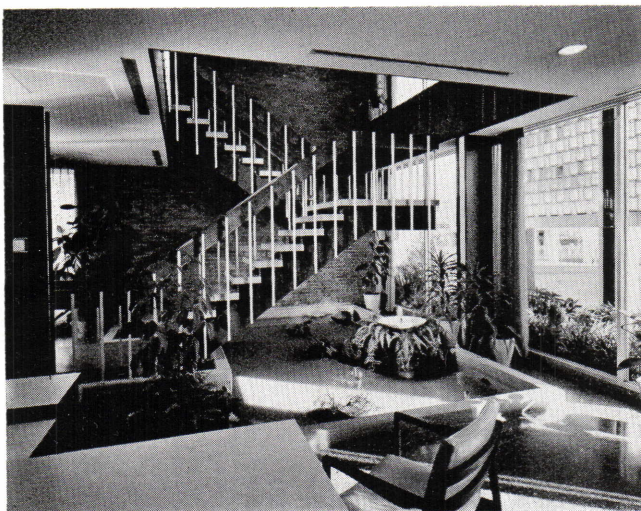
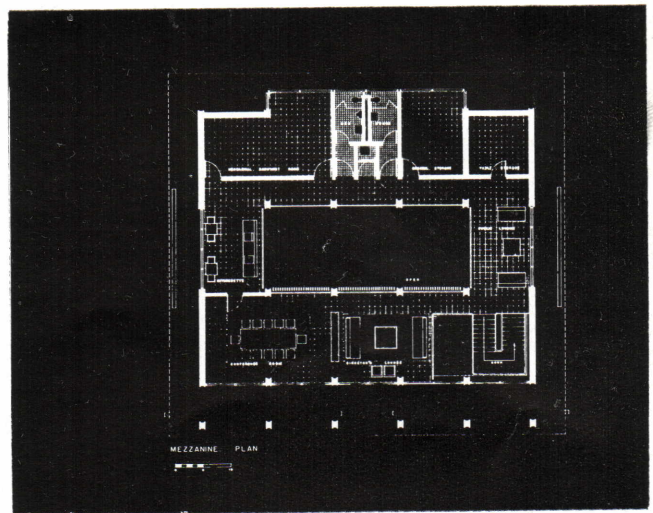
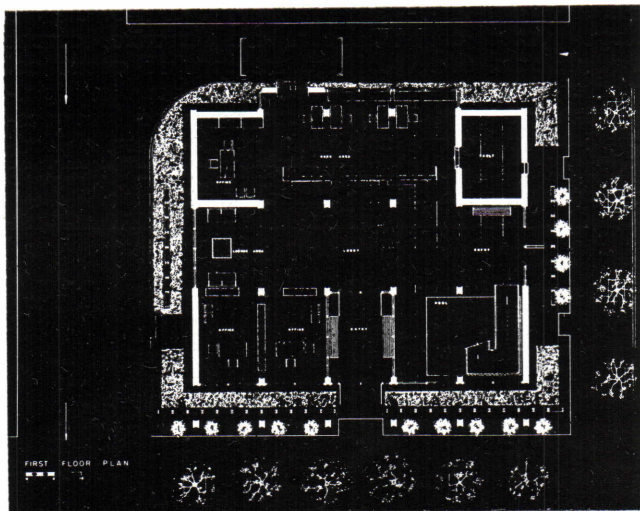
architects:

HAYES-HOWELL & ASSOCIATES

southern pines

Materials: Brick cavity walls, terrazzo floors, acoustical plaster ceiling, exterior columns and fascia — marble, interior paneling — walnut.

Program: The Owner requested a two story building to be located on a corner site in the middle of town with entrances on both streets. Provide space for 5 tellers, receptionist, general manager and 2 loan offices on first floor. Second floor consists of directors room, lounge, and space for civic meetings, art exhibits. Engineers: Gardner, Elsevier & Kline of Durham, structural; T. C. Cooke of Durham, mechanical; Lewis Clarke of Raleigh, landscape architect; L. P. Cox Company of Sanford, general contractor.



owner:

**FIRST NATIONAL BANK OF
CATAWBA COUNTY**

newton

architects:

CLEMMER & HORTON ASSOCIATES

hickory

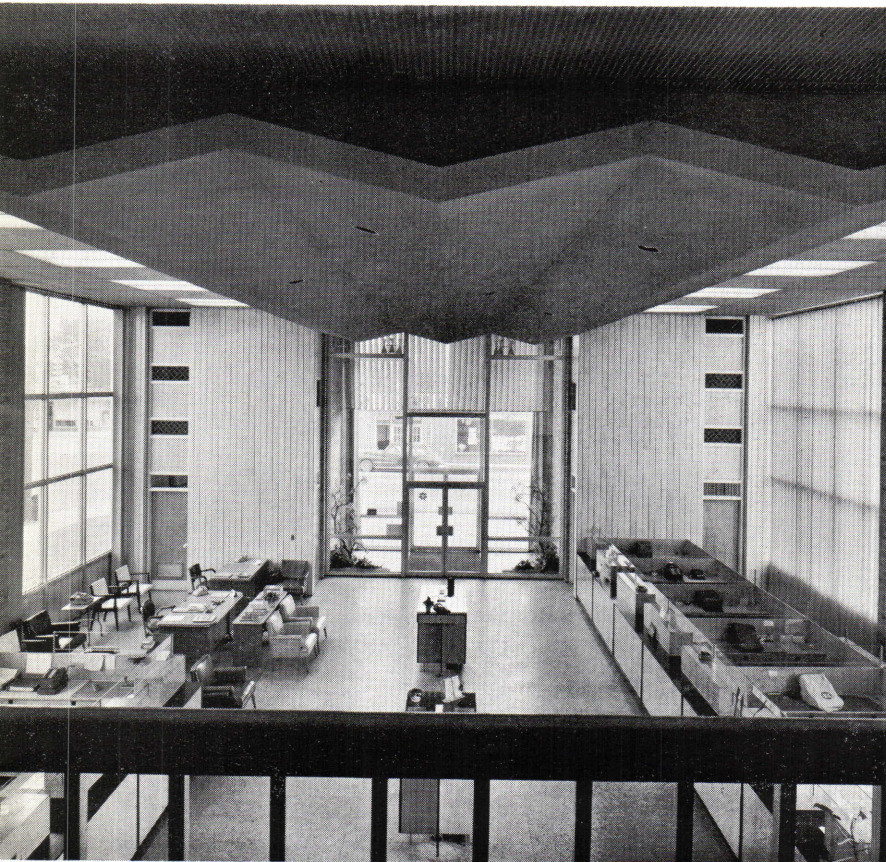
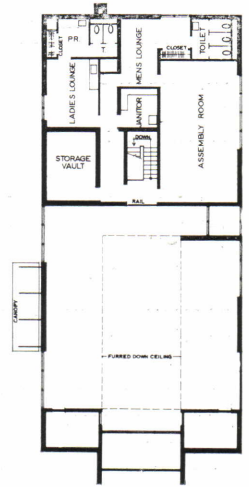
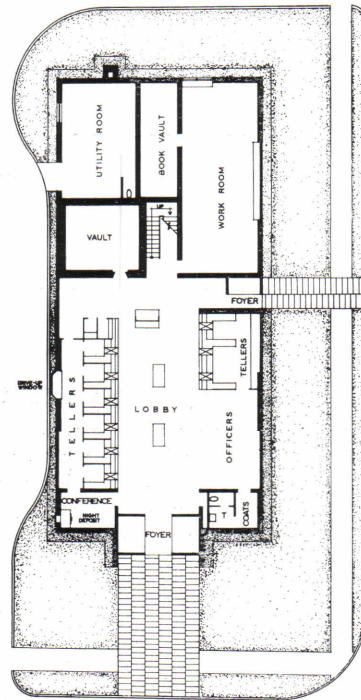
general contractor:

Herman-Sipe & Company, Inc.

conover

This is one of eight offices of the First National Bank of Catawba County including its home office in Hickory. All are located within the County. The Newton building, completed in 1956, contains a total of 6943 sq. ft. Exterior walls are matt glaze gray brick and aluminum window walls glazed with gray-tinted plate glass and polished black serpentine stone panels. Interior walls are a combination of the same brick, oak planking and plaster, with Thru-Vu vertical light control on the large glazed areas. Floors are terrazzo, carpet and resilient tile. Ceilings are sprayed acoustical plaster, perforated metal and acoustical tile. Lighting is a combination of fluorescent and incandescent. Heating and cooling is by hot-water, chilled-water system. Bank fixtures and oak wall planking are treated with a highlighted paint finish.





owner:

BRANCH BANKING AND TRUST CO.

fayetteville

architects:

G. MILTON SMALL AND ASSOCIATES

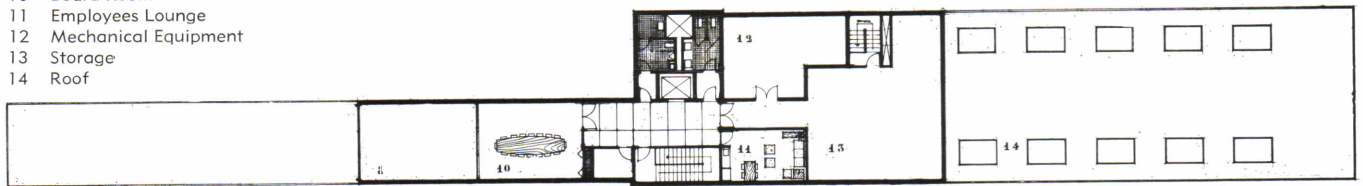
raleigh

Branch Banking and Trust Company wanted to keep their well known location in Fayetteville, but needed more modern and expanded space to provide better banking facilities for that growing area. The solution was to build on their old site, plus a lot next door and one behind. The resulting site created the difficult architectural problem of fitting banking facilities into a space with the proportions of a bowling alley, forty feet wide on Hay Street, only twenty feet wide on Franklin Street, and 289 feet long, thru the full city block. The solution was placing the main Banking Room on Hay Street, the Installment Loan Department on

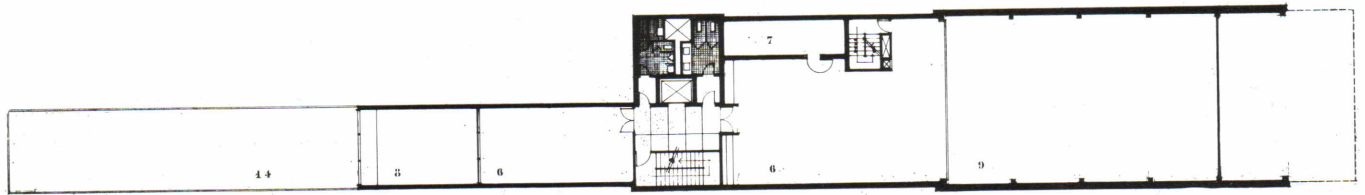
Franklin Street, and connecting the two with an interior garden. The long corridor thru the building was offset at the garden both laterally and vertically to cut its visual length. The Board Room on the third floor and one of the Bookkeeping Areas on the second floor also open onto the interior garden. The Main Banking Room is lighted by ten large skylights in the roof which extends out over the entrance and the sidewalk to form a canopy. Warm walnut fixtures and paneling and extensive carpeting and cool white terrazzo and marble will combine to create an impressive and inviting atmosphere.



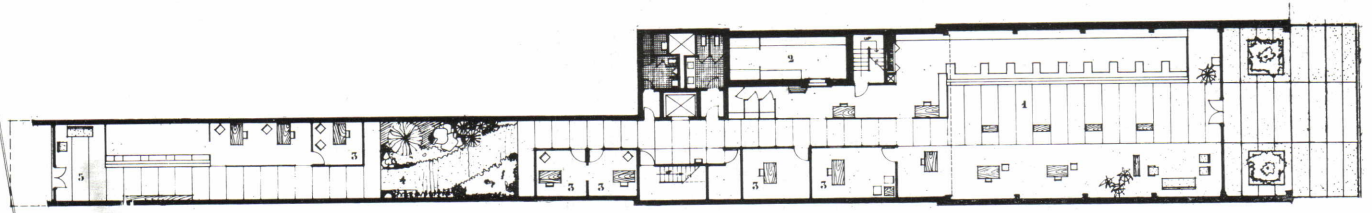
- 1 Main Banking Room
- 2 Vault
- 3 Offices
- 4 Garden
- 5 Installment Loan Department
- 6 Bookkeeping
- 7 Record Vault
- 8 Upper Part of Garden
- 9 Upper Part of Banking Room
- 10 Board Room
- 11 Employees Lounge
- 12 Mechanical Equipment
- 13 Storage
- 14 Roof



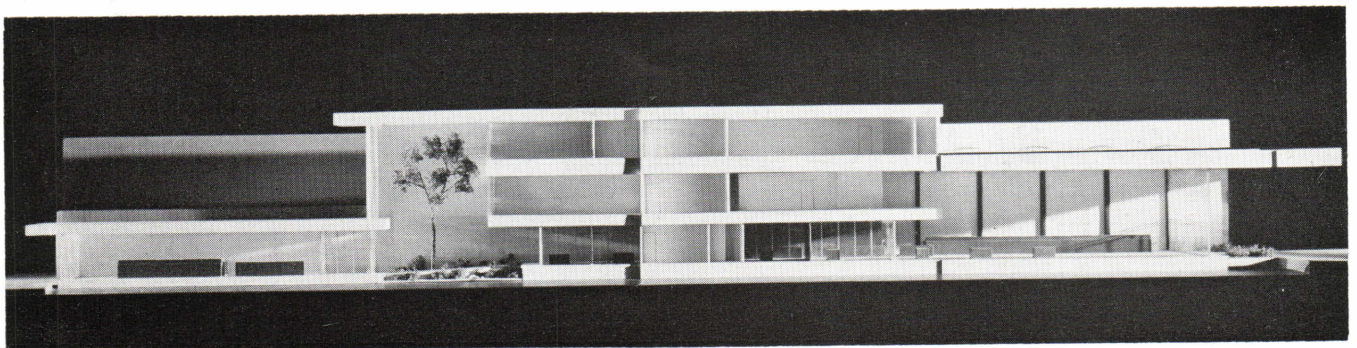
THIRD FLOOR



SECOND FLOOR



FIRST FLOOR



owner:

**PEOPLES SAVINGS & LOAN
ASSOCIATION**

whiteville

architect:

LESLIE N. BONEY

wilmington

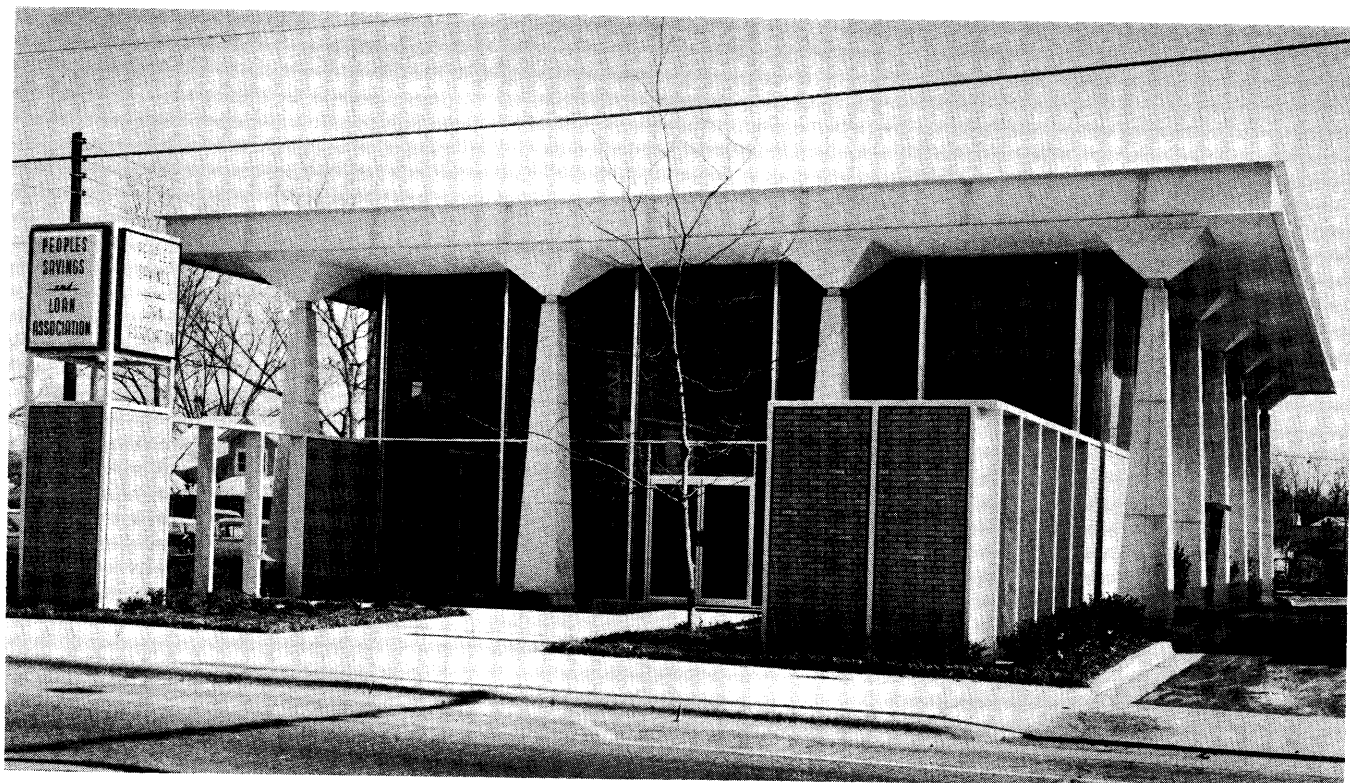
contractor:

A. G. Carter, Jr.
whiteville

engineers:

Sam Hunter, Jr.
sumter, s. c.

Henry von Oesen & Associates
wilmington



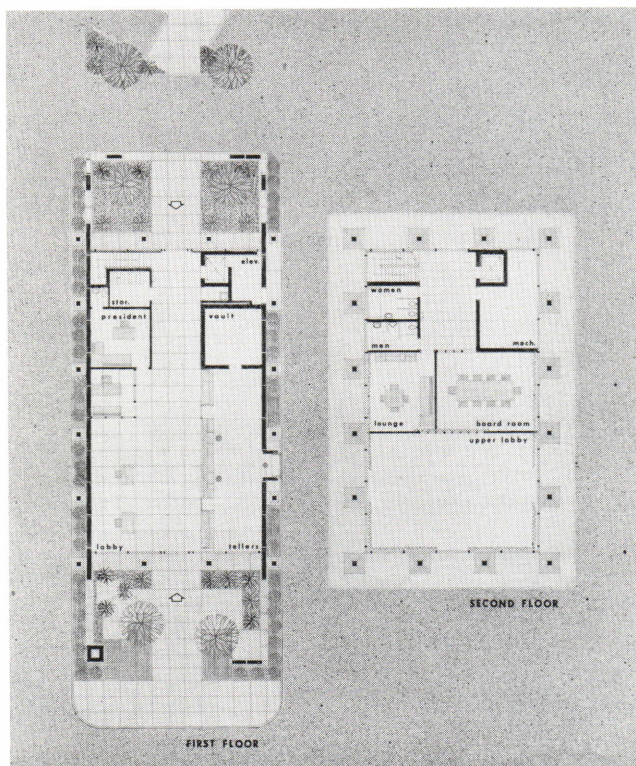
This new building was designed to be both monumental and graceful. The facility contains lobbies, tellers' counters, a drive-in Banking window, lending office areas, elevator, and on-site parking area for 20 cars. The structure represents an expenditure of over \$150,000. The building is dressed in glass and brick, in sophisticated tones of deep gray, black, and white with interior accents of brilliant color. Entrances to the building will be from Madison Street, and from a special banking customer parking lot at the rear of the structure.

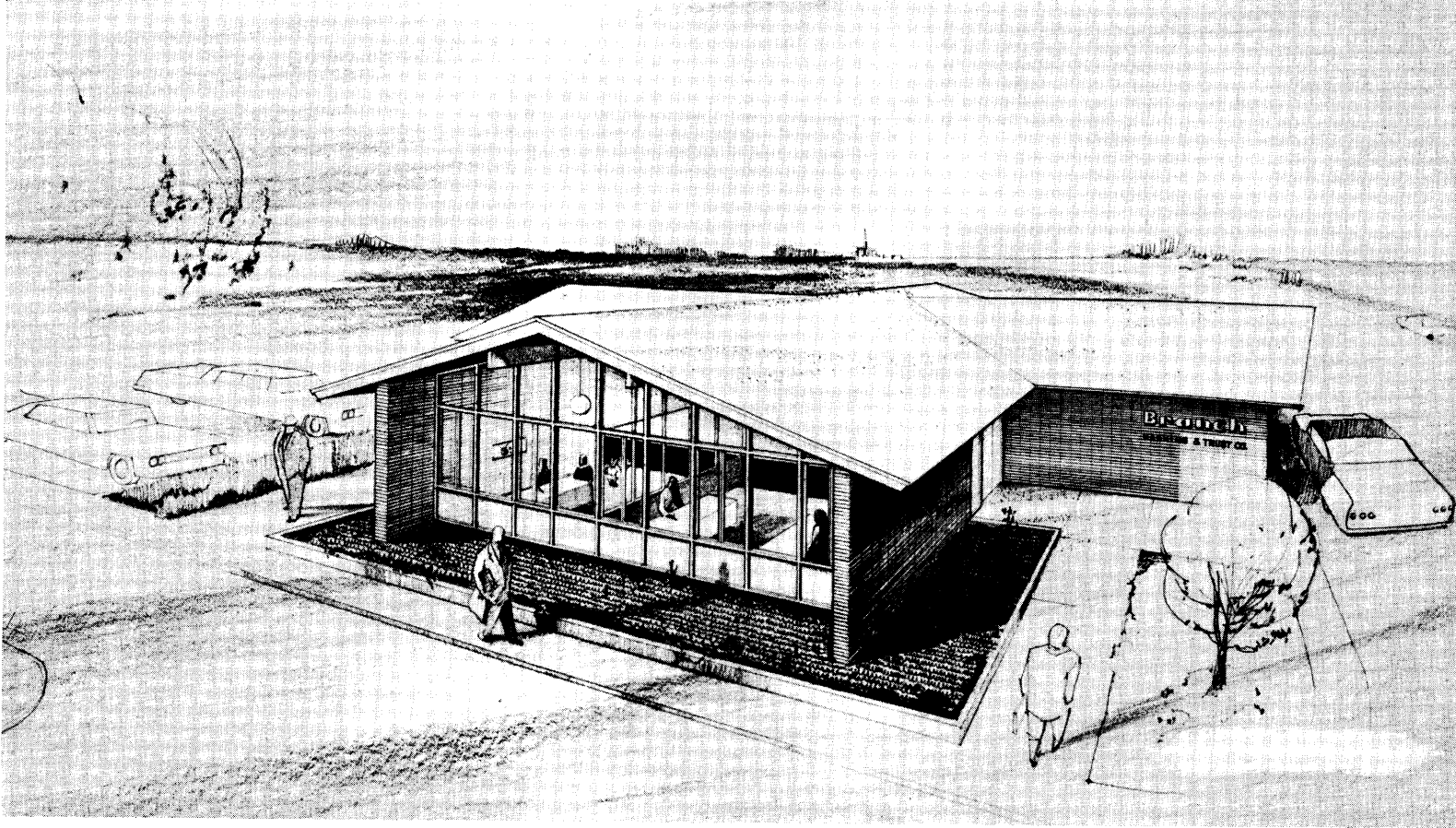
The spacious first floor area will have four teller stations to serve customers. Executive offices will be conveniently located in the center of the building and form a hub for all activities. Interior furnishings for the lobbies will feature face brick, crisp aluminum trim, white terrazzo floors, and unique uses of wood panelling. A drive-in window is provided on the south side of the building allowing for quick, in and out service.

The second floor or mezzanine will be located to the rear of the building and overlooks the main lobby below. One area of this floor will be dedicated

to employees lounge and snack area with a unique and efficient food service area. Twenty-five people can be served in comfort in this area. The community room seating 85 will be adjacent to the employees lounge and will be available for civic and other meetings, large and small.

Mechanical equipment, ladies and mens lounge areas are on the mezzanine floor. The structure will be supported on 16 steel columns covered with stone to present a classical feeling to the exterior. The basic framing for the building is steel. The latest in climate control and lighting will be provided. Fluorescent lighting units are to be mounted in a rigid module of acoustical ceilings. Heating and air conditioning will be accomplished, using the air to air heat pump. The building is set back from the sidewalk line several feet to allow for neat colorful landscaping to provide a green base for the structure. The entire front of the main lobby opens to the public with tinted, heat absorbing glass, and is covered at certain times with draperies. The massive vault door of stainless steel faces Madison Street and is suggestive of the strength of the institution.





owner:

BRANCH BANKING AND TRUST CO.
cary

architects:

JAMES M. EDWARDS, JR., AIA
WM. CLYDE MCGEE, JR., AIA, ASSOC.
raleigh

engineers:

Amin and Owen, (Electrical and Plumbing)
Thomas C. Powell, Jr., (Heating & Air Conditioning)

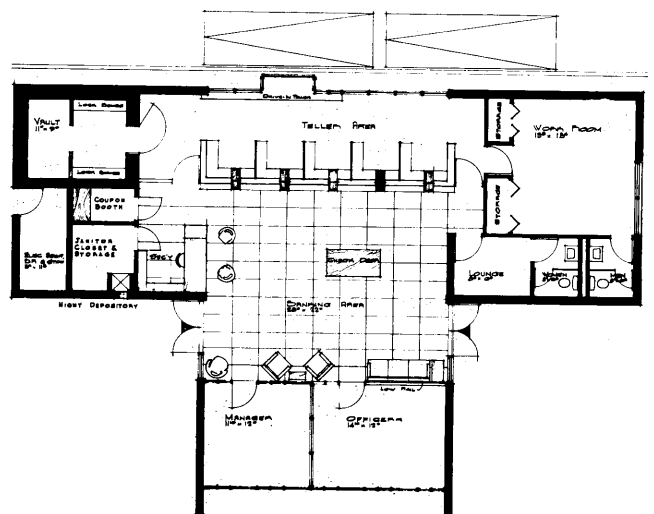
contractors:

Wilson-Emerson Company and
Jordon Construction Company
cary

The client wished the Architects to design a branch which would have both conservative dignity and functional design in a building containing a maximum of 2300 square feet and not exceeding \$20.00 per square foot in cost. The building is located on a corner site one block from the main square in Cary.

The materials chosen for the walls are chocolate brick, white precast concrete panels, and aluminum tubing with tinted plate glass. The floor coverings are carpet, white terrazzo, and white rubber tile. The sloped ceiling in the banking area is of the ventilating type thru which heated or cooled air pass from the plenum above. This is the first installation of its type in a sloped ceiling.

Within the area there is space for five interior tellers and one drive-in window. Future expansion of the drive-up banking services will be met by the use of Island-Type teller units to the rear of the present drive-up window. In addition to the banking area and workspace, space has been provided for a Branch Manager's Private office and two other offices, divided from the banking area by a low cherry plywood rail.



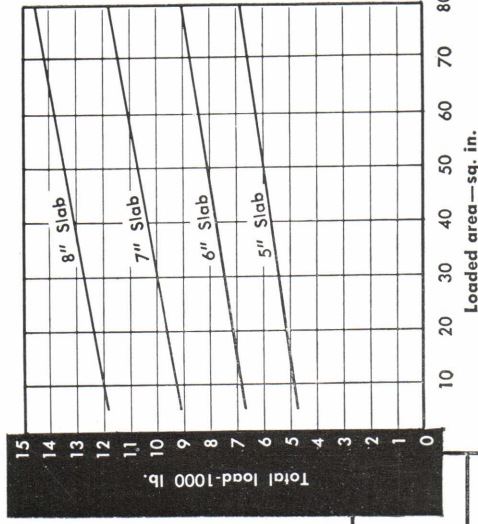
Clip along dotted line

Concrete slab design for long-service floors. Example: assume that a slab is to be designed of 5,000 psi concrete for an industrial plant floor. There will be considerable traffic with trucks having loads of 10,000 lb. per wheel. Each wheel has a contact area of about 30 sq. in. Assume that operating conditions are such that impact will be equivalent to about 25 per cent of the load. The equivalent static load will then be 12,500 lb. An approximate formula for the allowable flexural tensile

stress of concrete is $4.6\sqrt{f'_c}$ (in which $f'_c = 28$ -day cylinder strength). For 5,000 psi concrete, the allowable strength is then:

$$4.6\sqrt{5,000} = 325 \text{ psi.}$$

The allowable loads in chart at right are based on a stress of 300 psi, so the design load must be corrected by $300 \div 325$ which gives 11,500 lb. From chart a load of 11,500 lb. on an area of 30 sq. in. requires a slab about $7\frac{1}{2}$ in. thick.



		MIX DESIGN DATA FOR ORDERING CONCRETE					CONCRETE FINISH
		W/C in gal. per bag	28 day cylinder strength (psi)	Slump (in.)	Air content (%)**	Min. cement content in bags per cu. yd.	
SINGLE COURSE	BUILDING TYPE	TRAFFIC	5 1/2-6 1/2	2-4	5 ± 1 or 6 ± 1	5 1/2	Steel trowel
	Offices, schools, churches, hospitals, commercial bldgs.: where floor will be covered with tile, linoleum, etc.	Predominantly foot traffic.					
	Same as above except concrete is wearing surface. Also for service in light industrial buildings.	Foot traffic and pneumatic tired vehicles.	4-5 1/2	1-3	5 ± 1 or 6 ± 1	6	Hard steel trowel by power and hand equipment.
	Industrial or commercial buildings subject to heavy or abrasive use.	Foot traffic and pneumatic tired vehicles.	4-5 1/2	1-3	5 ± 1 or 6 ± 1	6	Dry shake of extra hard aggregate added to surface immediately before power floating begins.
TWO COURSE HEAVY DUTY	Heavy industry such as foundries, steel mills, heavy manufacturing, also any industrial or commercial building with highly abrasive conditions.	Steel wheeled vehicles. Heavy abrasive use.	5 1/2-6 1/2	2-3	5 ± 1 or 6 ± 1	5 1/2	Surface leveled by floating, but textured to insure bond to topping.
			3 1/2-4	Zero	Not required	7 1/2	Special power floats, repeated hand troweling for smooth, dense abrasive resistant surface. Special extra hard aggregates are used.

*For concrete with 1 1/2 in. max. aggregate use 5 ± 1% air content; for 3/4 in. max. aggregate use 6 ± 1%.

**Topping mix must be mixed in paddle type mixer—generally not available from ready-mix plants.

Maximum Wheel Loads for Industrial Floors

The chart above is based on flexural tensile stress of 300 psi. For other stresses multiply loads by ratio of 300 to stress used. For an allowable tensile stress of 300 psi, compressive strength of about 4,300 psi is generally required.

For additional literature on design of concrete slab floors, or other concrete construction, just send a request on your letterhead. (U.S. and Canada only.)

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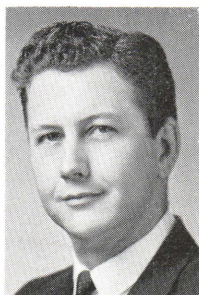
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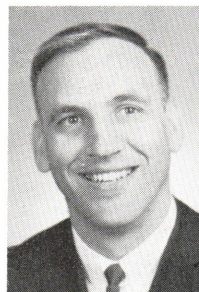
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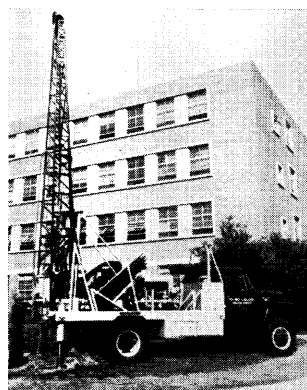
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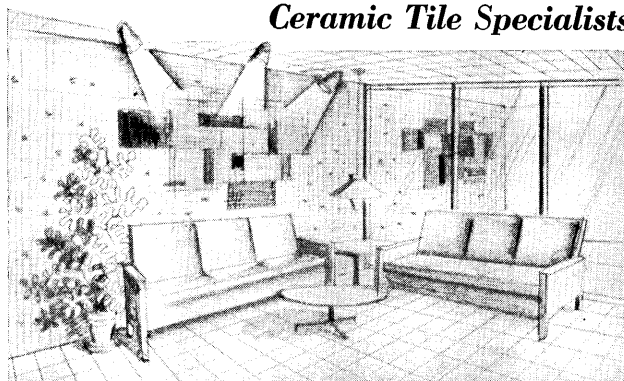
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SCHOOL PLANNING CONFERENCE SET

The 1963 School Planning Conference will be held at the Memorial Auditorium in Raleigh on November 7, 8 and 9, beginning on Thursday evening and concluding on Saturday morning. Developing a theme of the school as an "Environment for Learning" will be a distinguished panel of speakers including W. W. Caudill, Chairman of the Department of Architecture, Rice University; Fred S. Dubin, of Fred S. Dubin Associates, Consulting Engineers, Hartford, Conn.; Charles D. Gibson, Chief, Bureau of School Planning, State of California Department of Education; William H. Ittelson, Chairman, Department of Psychology, Brooklyn College of the City University of New York; Robert B. Newman, of Bolt, Beranek and Newman, Inc., Consulting, Development, and Research in Acoustics, Cambridge, Mass.

The conference should attract architects, engineers, other members of design professions, school administrators and school board members from throughout the state.

The conference will deal with basic information, practical application, and areas of exploration relating to the following environmental aspects: thermal, visual, sonic, spatial, psychological and physiological. These involve either directly or indirectly safety, structure, sanitation and landscape — all of which will be covered during the conference.

The following organizations and agencies are supporting the conference: North Carolina Chapter, The American Institute of Architects; Professional Engineers of North Carolina; School of Design, N. C. State of the University of N. C. at Raleigh; Division of Superintendents, N. C. Education Association; Division of School Planning, N. C. Department of Public Instruction.

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WALTER WILLIAMS HOOK, FAIA

In the death of Walter Williams Hook, FAIA, the North Carolina Chapter of The American Institute of Architects has lost one of its most respected members. Mr. Hook, 61, died of a heart attack at his home in Charlotte on Sunday, September 29.

Hook, president of Walter Hook and Associates, Inc. designed more than 750 buildings in the Carolinas, including schools, hospitals, banks, office buildings and many other public buildings. His most outstanding designs in Charlotte include the North Carolina National Bank Building, the Central YMCA, the new Southern Railway station, many of the buildings at Douglas Municipal Airport, and the Queen College Auditorium.

Sometimes called "Mr. Hospital" by his fellow architects, some 250 of his firm's projects were hospitals, including the State Hospital in Raleigh, the State Hospital in Morganton, the Wilson Sanatorium, the Veterans Administration Hospital in Salisbury, the original Charlotte Memorial Hospital, and major portions of Charlotte's Presbyterian and Mercy Hospitals.

Long a member of the North Carolina Chapter of The American Institute of Architects, Walter Hook served as President of the group from 1936 to 1938 having served as Vice President in 1934-35, and as a member of the Executive Committee for a number of years. In 1949, Mr. Hook was elected a Fellow of The American Institute of Architects, the highest honor bestowed on architects by the Institute. Walter Hook's long and interested service to the Chapter was concluded in his latest efforts as a member of the Building Committee in the acquisition of the Chapter's new headquarters building in Raleigh. Hook had also served on the Charlotte-Mecklenburg Planning Commission and as Chairman of the North Carolina Building Code Council.

His father, Charles C. Hook, was the first licensed architect in the Carolinas, and Hook succeeded his father as head of the firm when the elder Hook died in the '30s.

Graveside funeral services were conducted at Elmwood Cemetery on September 30 by Dr. Harry H. Bryant of Covenant Presbyterian Church. Hook is survived by his wife, Ellen; one son, Walter W. Hook, Jr.; a sister, Mrs. Robert Gwathmey; and his mother, Mrs. Charles C. Hook.

EXAMINATION DATES ANNOUNCED

The North Carolina Board of Architecture announces that the next examination for architectural registration will be held at the School of Design, N. C. State of the University of N. C. at Raleigh, on January 1, 2, 3 and 4, 1964.

ASSOCIATION OF PROFESSIONS ELECTS OFFICERS

At a meeting of the North Carolina Association of Professions on Friday, September 20, in Burlington, the following were elected to office for the coming year:

Dr. John R. Kernodle, Burlington physician, President, succeeding T. C. Cooke, Professional Engineer of Durham; Earl L. Knox, D.V.M. of Raleigh, Vice President; William W. Dodge III, AIA, of Raleigh, re-elected Secretary; Robert G. Bourne, P.E., of Raleigh, Treasurer.

Dr. V. K. Hart of Charlotte was speaker at the meeting.

OPENS OFFICE

James P. Milam, AIA, announces the opening of his office for the practice of architecture at 2404 Hillsboro Street, Raleigh. Mr. Milam was formerly associated with Owen F. Smith, AIA, Architect, and was Design Consultant with the Division of School Planning of the N. C. Department of Education. Mr. Milam's mailing address is P. O. Box 5482, telephone 828-2227.

NEW OFFICERS ELECTED IN RALEIGH COUNCIL

At the regular monthly meeting of the Raleigh Council of Architects held at the Y.M.C.A. on Thursday, September 5, the following were elected to serve as officers for the council for the coming year: Jesse M. Page, Jr., AIA, succeeding G. Milton Small, FAIA, as President; John T. Caldwell, AIA, Vice President; J. B. Wiggins, AIA, Secretary; Robert W. Hall, AIA, Treasurer. The Raleigh Council holds a luncheon meeting the first Thursday of each month.

GOVERNOR APPOINTS STENHOUSE

Governor Terry Sanford announced recently the appointment of James A. Stenhouse, AIA, of Charlotte as a member of the North Carolina Building Code Council. Mr. Stenhouse succeeds A. G. Odell, Jr., FAIA, whose term on the Council expired last spring. Stenhouse is an associate in the firm of J. N. Pease Associates.

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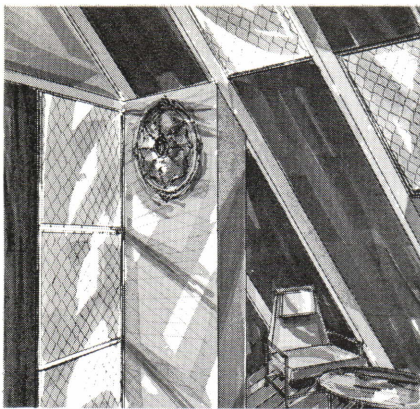
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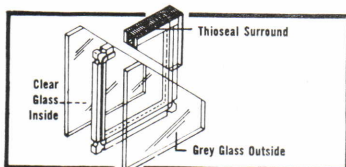


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NCAIA OFFERS PRESS AWARD

The North Carolina Chapter of The American Institute of Architects proposes an award to be presented to an employee of a member newspaper of The North Carolina Press Association in an effort to further understanding between the members of the two organizations.

Presentation of a monetary award and certificate to the writer of a published newspaper article concerning primarily architecture and architects. The field is completely open provided the above basic requirements are met. There is no limitation as to editorial, by-line or news story.

There are in actuality two separate awards, one to an employee of a *daily* paper and the other to an employee of a *non-daily* paper.

Initial choice and final judgment will be by The North Carolina Press Association, with the Chairman of the Public Relations Committee of NCAIA acting as adviser.

The award must be based on a fiscal year arrangement with a deadline of December 1, 1963, to allow fair judgment and notification of recipients and preparation of certificates. Submission of entries must be by December 15, 1963.

Presentation of seventy-five dollars (\$75.00) and a certificate will be made to each recipient at the January meeting of the NCAIA.

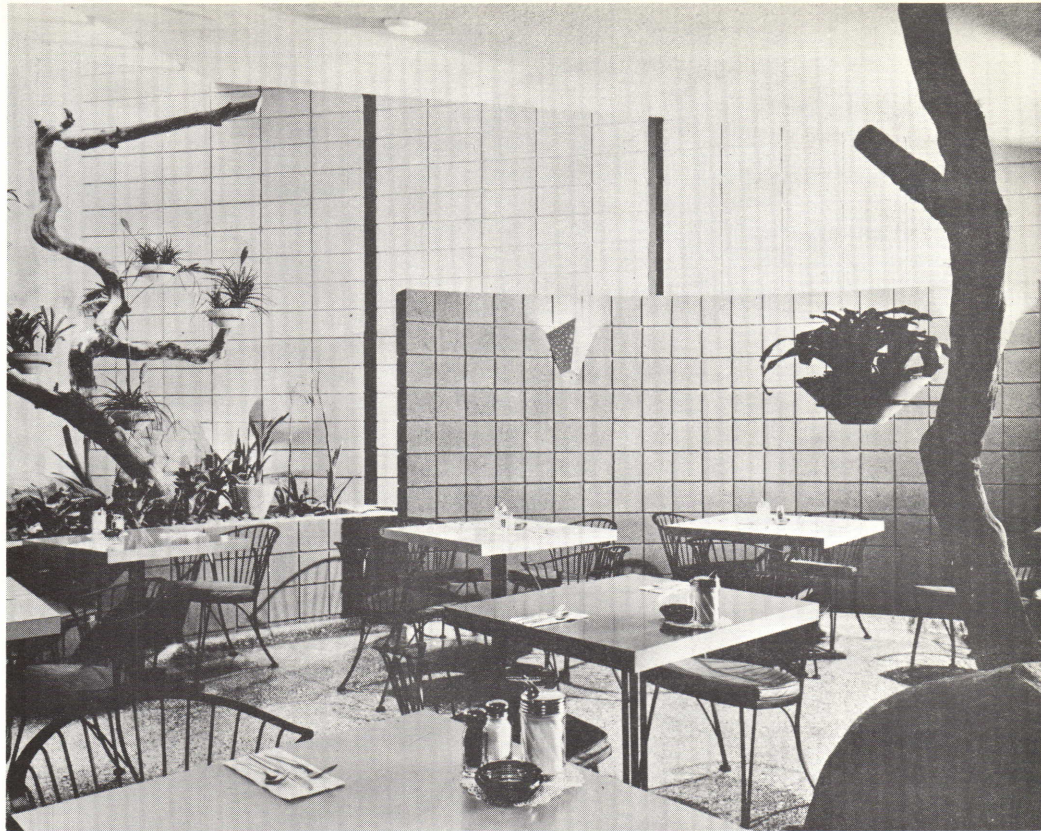
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THE NORTH CAROLINA CONCRETE MASONRY ASSOCIATION

Researches and inquiry into the nature of the basic components of life—food, clothing, and shelter—have long been a traditional part of the legitimate activity of the American college and university. The respectable college does not usually consider its faculty academically respectable unless his teaching activity is complemented by a significant program in creative work or research.

Research activity on food has received the major share of financial support in the American college mainly because of federal aid and funds easily found available in agriculture-oriented states. Research on clothing has also been supported partially through state and federal aid, but principally through the well financed textile industry which has found that the colleges contribute to progress and development in new fibers and fabrics, the principal components of modern clothing.

Researches into man's shelter have been less adequately supported in the American college, partially because the architectural profession has not been research-oriented, even though the building industry is one of the largest and most heavily financed in the United States. Research in building activity has been principally supported within the establishment of the manufacturing industries which produce the building products.

About ten years ago the American Institute of Architects recognized research as a legitimate and necessary activity in the practice of architecture with the establishment of a Department of Education and Research. This department has been understaffed and inadequately supported.

At North Carolina State, the faculty in the School of Design have carried on significant inquiries and experimental work on their time for many years without federal or state subsidy.

Only two years ago the State finally recognized the need for research in design as a supporting activity to the teaching program. Salary for one faculty member was allocated at that time as a subsidy for activity in research.

The experimental research in thin shell structures originated by former Professor Horacio Caminos, now of M.I.T., and Charles Kahn, Associate Professor of Architecture, is well known; and much of their work has been published. Some-what parallel studies are now being conducted by Charles Kahn and Zenon Zielinski, Structural Engineer and Associate Professor of Architecture.

Duncan Stuart, with several younger faculty colleagues, has been continuing his studies into the orderly subdivision of spheres. The concrete results of this work have been a 25 minute film "Polyhedra" with a 16 mm. sound track, and an article for the STUDENT PUBLICATION OF THE SCHOOL OF DESIGN.

George L. Bireline has been conducting investigations and experimental work on solar and decorative screens as an accompaniment to architecture. He believes it is possible to compete economically with commercially produced screens by an imaginative use of existing materials and production methods.

Funds were allocated in the 1963 General Assembly for a second addition to Brooks Hall to expand the facilities for teaching to accommodate 450 students, whereas facilities are available now for only 300. A principal feature of the new building wing will be about 5000 square feet of warehouse-type space with maximum flexibility for a wide variety of faculty research and experimental activity. North Carolina, in this way, contributes through research to a continuing exploration into the new frontiers of shelter.

NORTH CAROLINA STATE COLLEGE SCHOOL OF DESIGN AND NORTH CAROLINA

DESIGN FOUNDATION NEWS

The main function of the Design Foundation is to provide funds for salary supplement purposes at the N. C. State College School of Design. These funds materially aid the School in attracting and holding high-caliber faculty members and to remain competitive with other institutions. The Architectural

Profession wishes to thank the patrons listed below and to encourage other business and industrial firms to support the Foundation program. Interested persons may write Box 5067, State College Station, Raleigh, North Carolina. The list below does not include the many architects who also contribute to the foundation.

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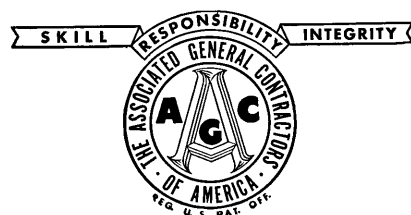
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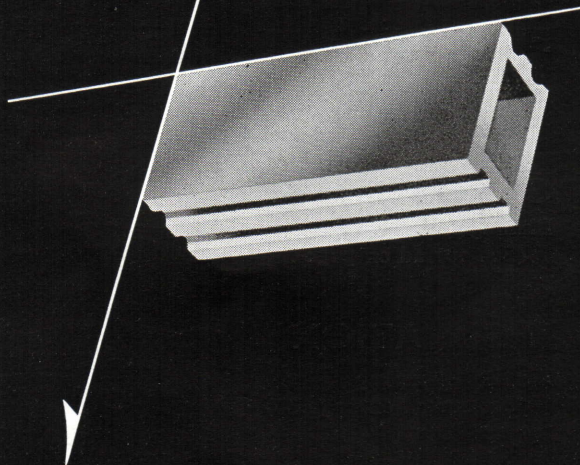
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OCTOBER 25: Eastern Council of Architects,
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Conrad Wessell, Jr., AIA, President

NOVEMBER 6: Durham Council of Architects,
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Kenneth M. Scott, AIA, President

NOVEMBER 6: Charlotte Section of N. C. Chapter,
AIA, Stork Restaurant No. 2
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NOVEMBER 7: Raleigh Council of Architects
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G. Milton Small, AIA, President

NOVEMBER 7, 8, 9: School Planning Seminar,
Memorial Auditorium, Raleigh

NOVEMBER 15: Deadline for material for December
issue

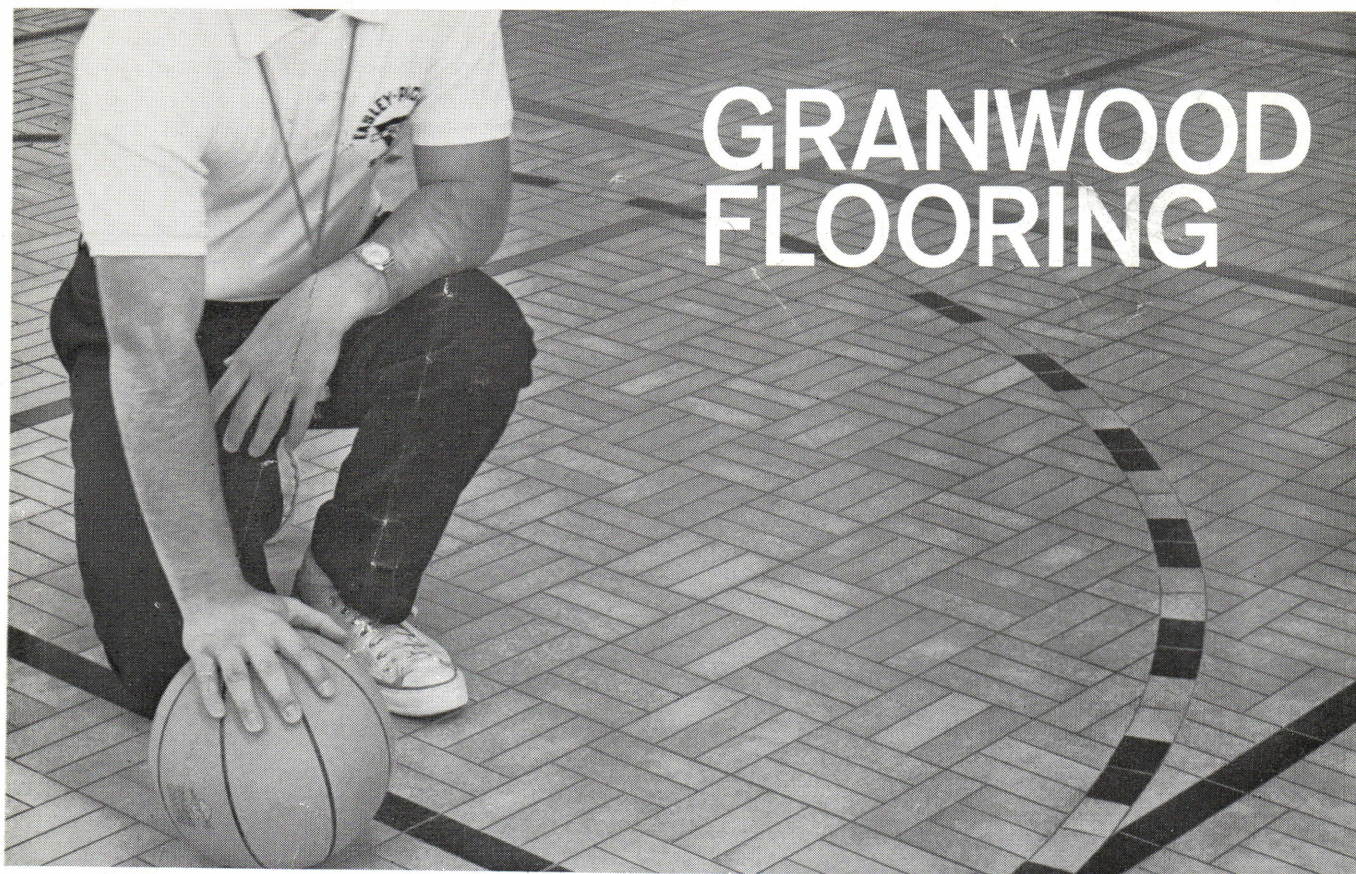
NOVEMBER 15: Greensboro Registered Architects,
Maplehouse Restaurant
Thomas P. Heritage, AIA, President

NOVEMBER 19: Winston-Salem Council of Architects
Reynolds Building Restaurant
J. Aubrey Kirby, AIA, President

NCAIA Executive Committee Meeting:
8:00 P.M., October 17
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OCTOBER 18
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