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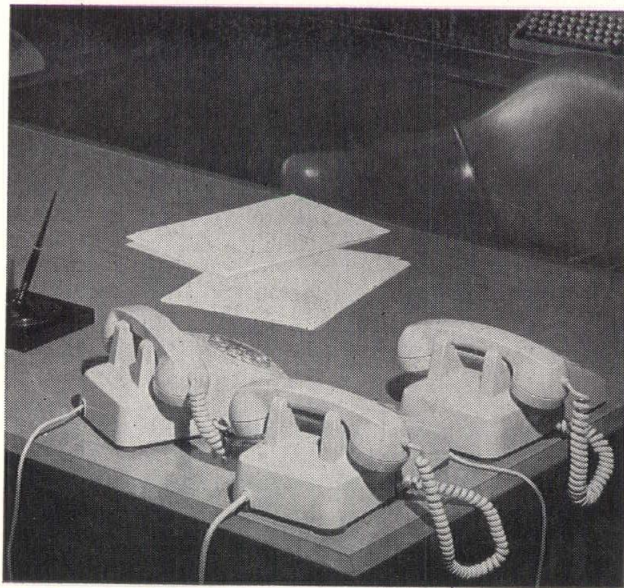
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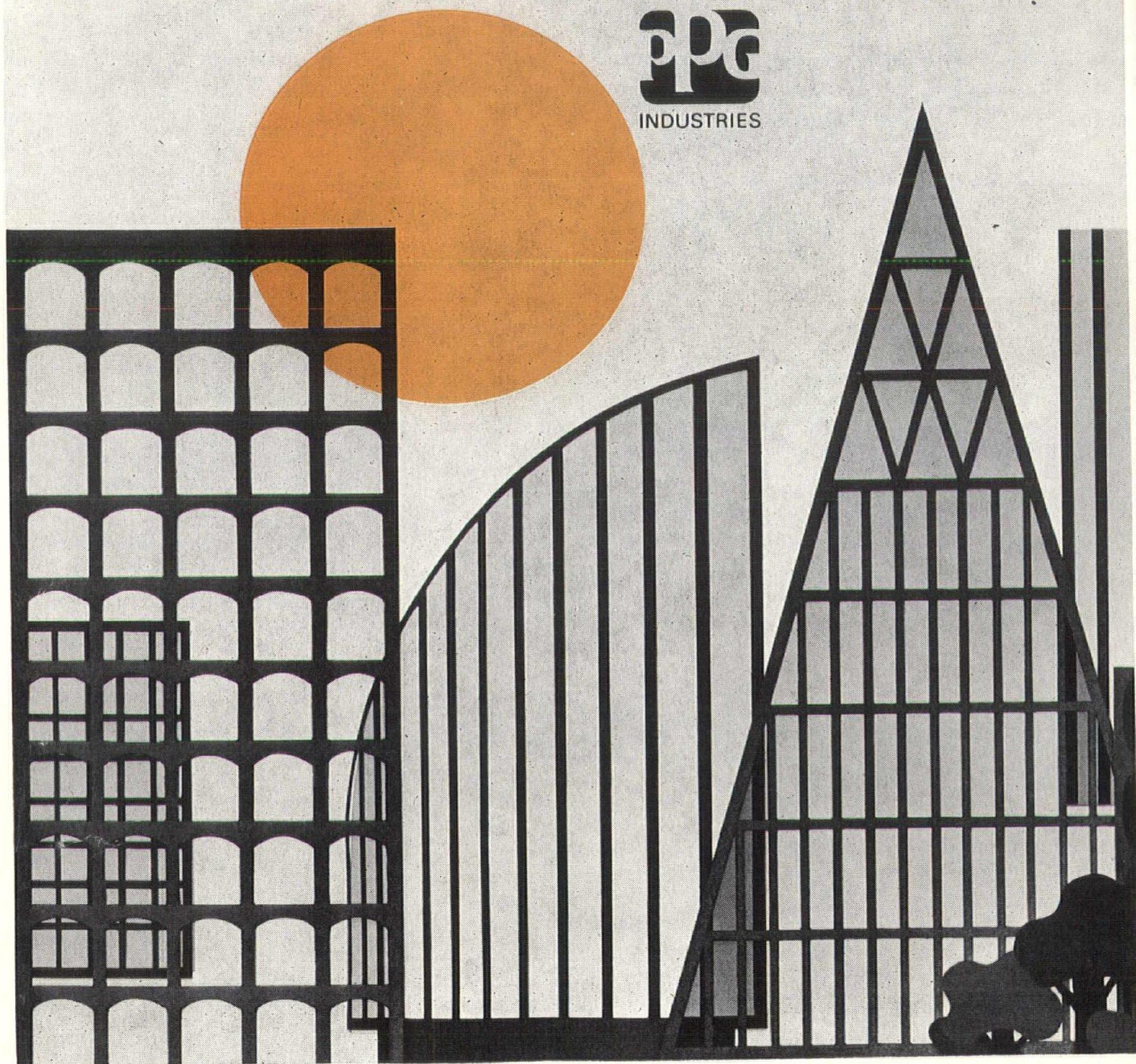
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R. N. ANDERSON, JR., AIA
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tative articles and features on statewide and local industries, business, governmental and civic organizations, they are in no other respect responsible for the contents hereof.

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How to be Functional Without Trying

YOU DON'T HEAR the word, "functional," around the way it once was used. It gathered some connotation of de-humanized sterility, and suggested a rigid utilization of space which, to those habituated to old houses, seemed cramped and—in a word—too "functional."

Perhaps also functionalism became associated with those "modern" experiments—all too soon becoming like an outworn fad—that frequently sat in uneasy juxtaposition with their neighbors and were not, what was called, "indigenous" to their surroundings.

But at the end of last summer, we occupied for a month a house at the beach which gave us an idea of what functionalism could be when the architect was not trying to show how advanced he could be, but was adapting his material to the environment. Though perhaps at its best in the summer, this was a year-round house, and could be taken either as a permanent home or as summer rental property.

The house was a surprise to me because, except for brief stays at a hotel, I'd not stayed at the beach for many years. I held the memory of those beach cottages we used to rent which really were *cottages*. They were frame houses, without style or functionalism, usually with wicker furniture or the like, and, when nothing more was expected, they were pleasant enough in those less demanding days before the Affluent Society was upon us. This house we went to in the past summer was also called a "cottage," but from the price we paid in rent—and the real estate agent's description—I scarcely expected one of the old frame "beach-y" places. On the other hand, we didn't expect anything so grand, so perfectly and functionally designed for its dual purpose in that precise place.

From the outside, it was an unpretentious low-lying house, white plaster above brick, with one wing of unpainted wood much of whose wall was broken by louvered windows. Set on a green lawn, with a little shrubbery, it looked as if it definitely belonged at the beach. But once the front door was opened, the interior was a revelation—to everyone who came.

The door opened immediately into an enormous living-dining-cooking area, formed in a simple right angle. The open cooking area, not visible from the living room, was all modern cupboards, cabinets, disposals, dish-washing machine and surface areas. Almost the whole of the front wall of the living room consisted of windows and there were large windows in the dining area. The walls were wood-paneled, with a huge fireplace which opened both onto the living and the dining area. The floor was a handsome and eminently practical substance of some variety of tile in squares. But what attracted every eye on entering the house, and was a comfort during the entire month, was a brick-floored porch-like room, thirty by twenty, which extended from the living room. As broad, double glass doors, flanked by shuttered windows, opened on this window-lined expanse, it gave to the whole living-area a luxurious expansiveness.

Now then, every foot of this living-dining-cooking area, with its porch-like lounge extension, was functional. Yet there was neither *(Continued on page 108)*

IN THIS ISSUE

ARCHITECTURAL ARTS EDITION

AIA News	7
WELLS, MEAGHER & McMANAMA Craig County Elementary School Bank of Tazewell County.....	13 46
GRIGG, WOOD, BROWNE & LARAMORE St. Thomas Hall—U. of Va. Fairfax Presbyterian Church Holy Trinity Lutheran Church	14 26 36
HUBERT T. STRATTON, AIA Linden Heights Animal Hospital	17
LEE, KING & POOLE Rhoads Hall, Women's Dorm for VCU	20
DAVID WARREN HARDWICKE & PARTNERS Ridge Shopping Center Cascades Restaurant-Meeting Center	22 42
RAWLINGS & WILSON Golden Skillet Prototype	25
CHARLES SHIFLETT Heritage Savings & Loan Richmond Law Offices	28 40
McGAUGHY, MARSHALL & McMILLAN Norfolk Vocational-Technical School	31
BUDINA & FREEMAN Bank of West Point	39
J. COATES CARTER & SON, AIA Stratford College Dormitory #3....	45
EDWARD F. SINNOTT & SON GMAC/IMC Building Hamilton St. Medical Center	49 55
BROOKS & WOMACK, AIA Westhill Baptist Church Grace Lutheran Church	51 53
BEN R. JOHNS, JR., AIA Chimborazo Elementary School	56
VOSBECK-VOSBECK-KENDRICK & REDINGER Woodrow Wilson Rehabilitation Center—Activities Building	58
WILLIAM A. BRIGGS Towne Theatre	65
YATES, BOGGS, BERKELEY & SERVICE New Facility for the American National Bank	67
For the Record	97
Index to Advertisers	110

COVER NOTE

The striking addition to Richmond's skyline featured on this month's cover is the new Women's Dormitory for Virginia Commonwealth University—Rhoads Hall. For more on this project see page 20. (Photo by James M. McElroy)

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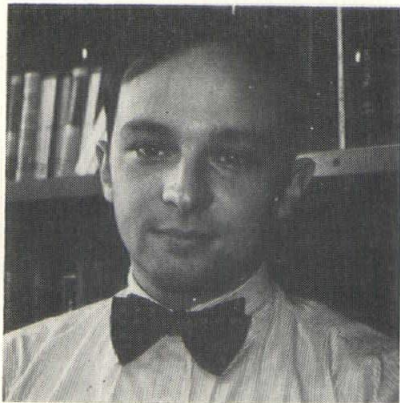
A I A VIRGINIA CHAPTER

New Associate Members



CALVIN NELSON ASHWELL

Born July 21, 1946 in Lynchburg, Ashwell attended the Chicago Technical College and graduated from there in November of 1967. Ashwell is presently employed with Wiley and Wilson in Lynchburg.



NORMAN DAVENPORT ASKINS

Born December 3, 1941 in Tuscaloosa, Alabama, Askins received his Bachelor of Architecture in 1966 from

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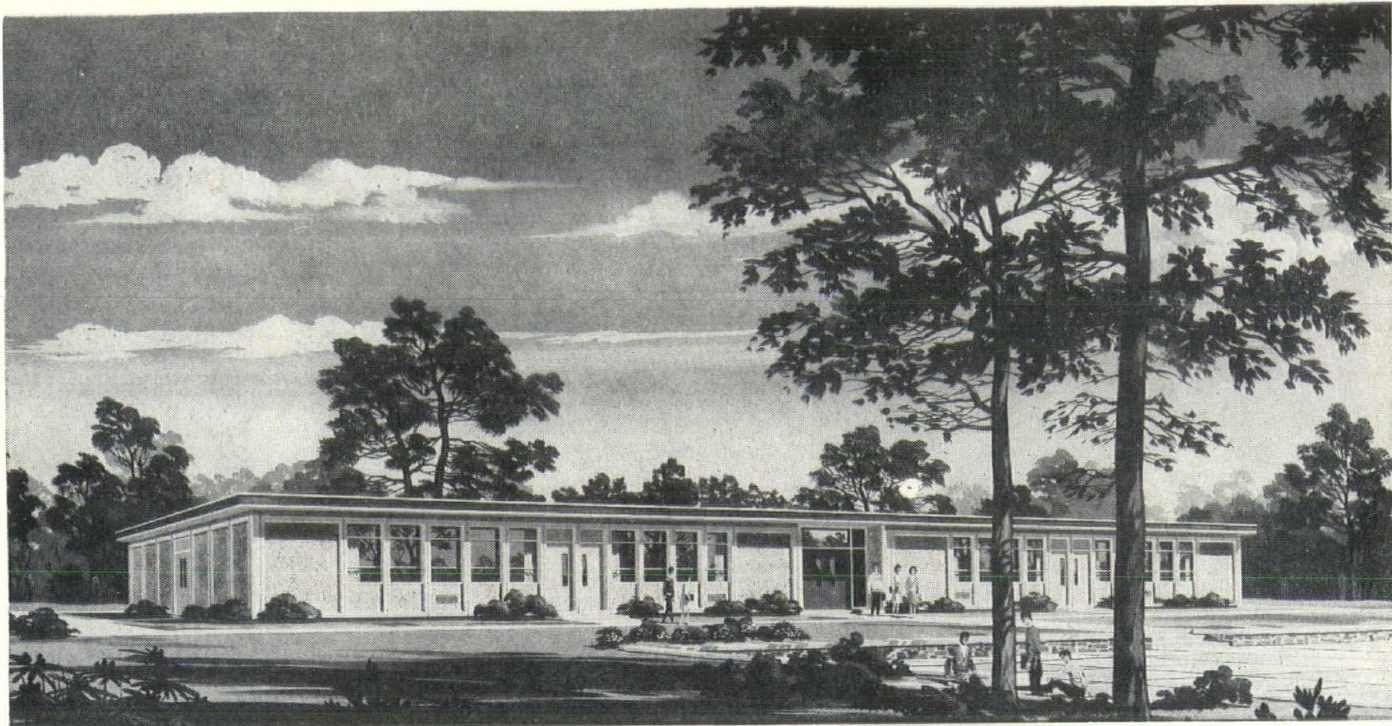


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(from page 7)

the Georgia Institute of Technology and his Masters of Architectural History from the University of Virginia in 1968. Askins is presently employed with Colonial Williamsburg, Inc. in Williamsburg.

JOHN BETTS, JR.

Born January 4, 1930 in Hampton, Betts received his BSME degree from the University of Miami in 1958. Betts is presently employed with Leon K. Smith in Newport News.

BARRY GRAYDON HALL

Born July 18, 1942. in Roanoke, Hall attended Virginia Polytechnic Institute for four years. Hall is presently employed with Smithey and Boynton in Roanoke.

DANIEL ALBERT ZAHN

Born May 13, 1943 in Washington, D. C., Zahn attended Virginia Polytechnic Institute for three years. Zahn is presently employed with Smithey and Boynton in Roanoke.

(Please turn the page)

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ARCHITECTS ELECT



Virginia's Architects, members of the Virginia Chapter, The American Institute of Architects, met September 26-28 at the Chamberlin Hotel, Old Point Comfort, and elected officers for 1969.

William Marshall, Jr., of Norfolk, second from left, will be the new president. John E. Wilson, left, is vice-president and president designate. He is from Richmond. Congratulating Marshall is outgoing president, Kenneth L. Motley, of Salem.

Others, left to right are John W. Chappellear, Jr., Roanoke, secretary, William Vosbeck, Alexandria, Vice President and Henry J. Browne, Charlottesville, Treasurer. During their meeting the architects heard a panel of Washington experts tell them to face the challenge of the expanding architectural technology. They voted overwhelmingly to support the 81 million dollar bond issue and debated the conflict of interest statutes as regards the many architects serving on voluntary boards and commissions.

(Continued on page 69)

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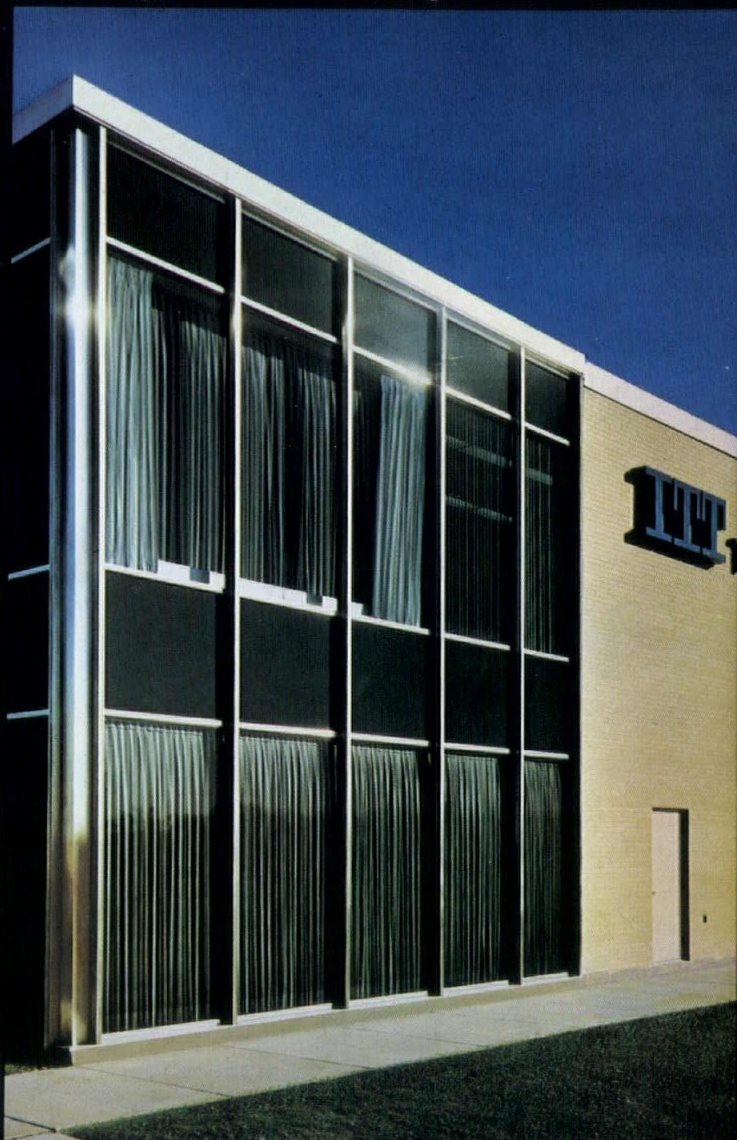
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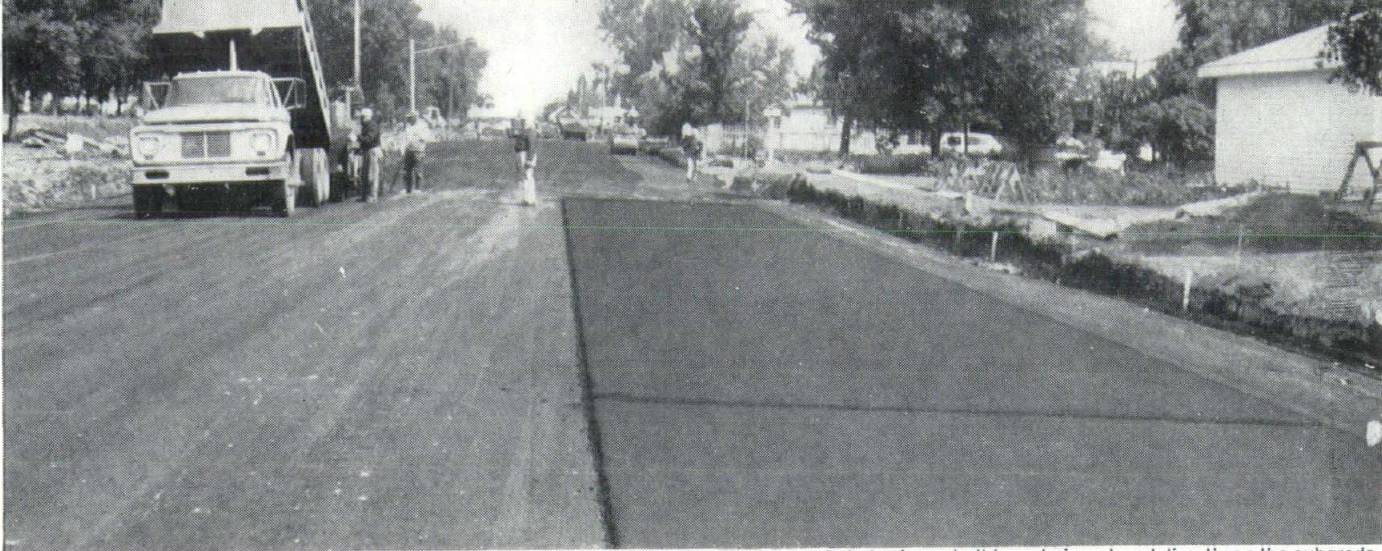


Inside look at USS ULTIMET narrow stile entrance doors of ITT's Telecommunications Office Building in Oakbrook, Illinois. Curtain wall: USS ULTIMET Stainless Steel framing components with tempered structural glass in spandrel area and insulating glass in vision area. Mullion spacing: 5'0". Owner: ITT, Oakbrook, Illinois. Architect: Fred H. Prather, Chicago, Illinois. General Contractor: Del Webb, Oakbrook, Illinois. Curtain wall fabricator-erector: International Steel Co., Evansville, Indiana.



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Heavy-duty pavement that could be put down quickly on a problem soil was an important consideration in the decision by Richland County Engineer Adolph Tryba to specify new Full-Depth Asphalt construction. Result? The Full-Depth Asphalt pavement, laid directly on Wahpeton's difficult silty clay and clay subgrade, lived up to its reputation—and then some! Traffic never stopped rolling, and businesses closed their doors for no more than 2 hours during the entire construction, which was completed in record time. A special feature of this joint county-city project: *Curbs and gutters were laid on a 3-in. layer of asphalt base before the final base and wearing courses were added. This helped retain the grade line of curb, improving drainage.* Lower initial cost and long-term maintenance economies, coupled with Full-Depth Asphalt pavement's quieter, smoother riding characteristics, insure its continued use in Richland County's ambitious rural and municipal highway improvement program.

TYPE: Full-Depth, Asphalt-paved, light-industrial street. Asphalt concrete surface on Asphalt concrete base over silty clay subgrade.

TERRAIN: Extremely flat.

CLIMATE: Temperature range: 111°F. Summer; -44°F. Winter. Average annual precipitation: 20.6".

TRAFFIC: 2000 VPD.

PAVEMENT SECTION: **Subgrade:** Silty clay with CBR of 2.5. **Base:** 7" hot mix asphalt concrete, laid in three lifts. 3" of base


course placed under curbs and gutters to retain grade line of street. Mix aggregate was $\frac{3}{4}$ " maximum size, meeting North Dakota Division of Highways specifications. **Surface:** 3" hot-mix asphalt concrete. Aggregate size same as base.

ASPHALT: Base: 120-150 pen. **Surface:** 85-100 pen.

DRAINAGE: Sub-surface: No underdrains used. **Surface:** Gutters, curbs and catch basins.

COMPACTION: Sub-grade: None required, wet conditions. **Asphalt Base:** Ordinary compaction as specified in N. Dakota Highway Standard Specifications for Road and Bridge Construction. **Asphalt Surface:** Same as base. Compaction criteria achieved with 25-ton pneumatic, 10-12 ton steel-wheel tandem rollers.

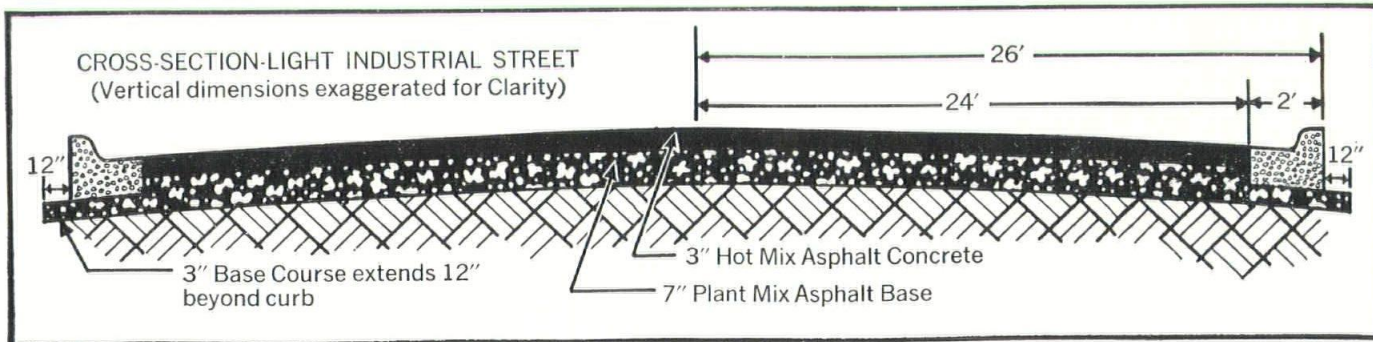
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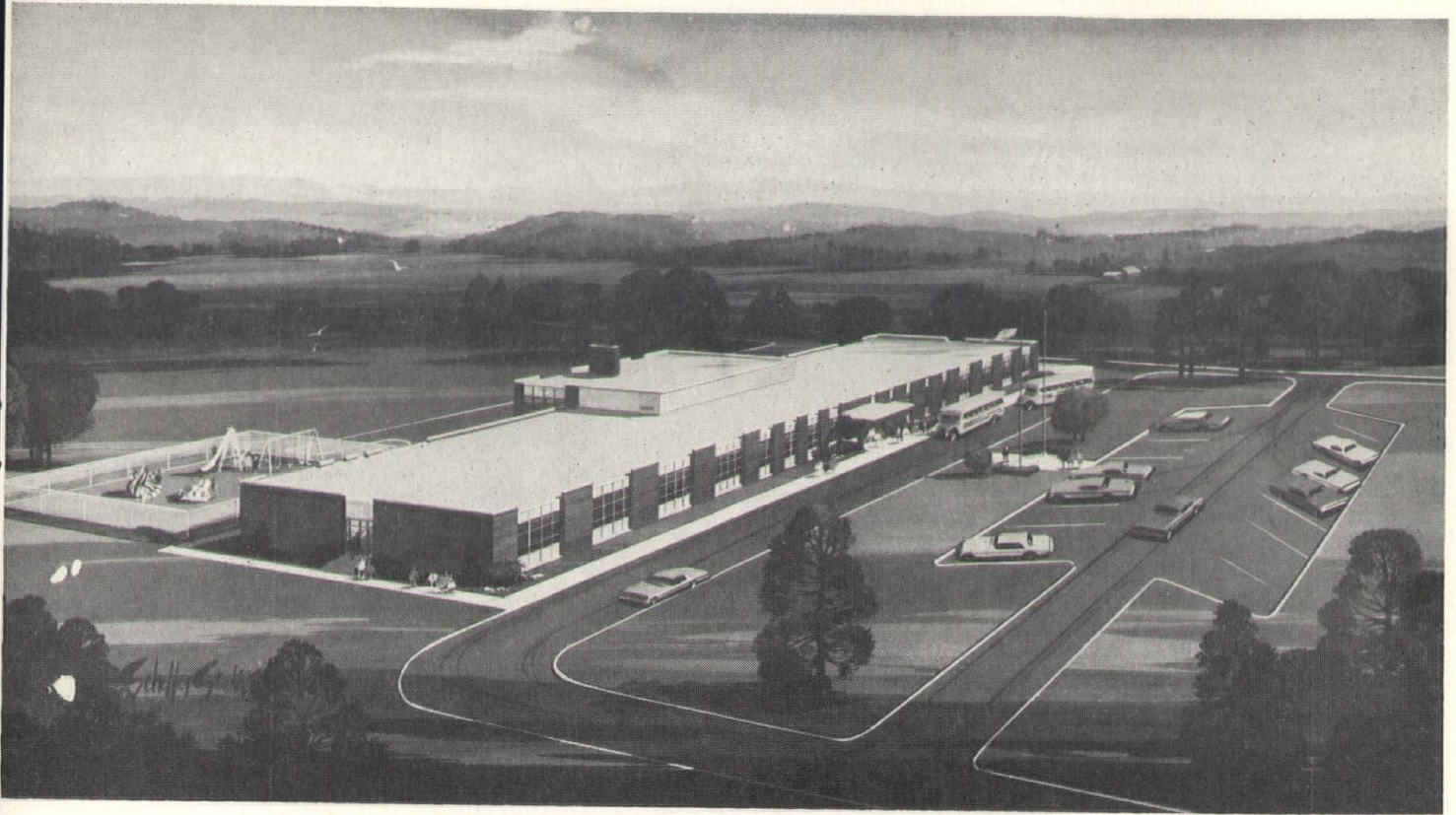


THE ASPHALT INSTITUTE

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CRAIG COUNTY ELEMENTARY SCHOOL



ARCHITECTS: Wells, Meagher & McManama

ENGINEERS: Sowers, Rodes & Whitescarver—Mechanical & Electrical

GENERAL CONTRACTORS: Watts & Breakell, Inc.

CONSTRUCTION WAS STARTED on the Craig County Elementary School in June with completion scheduled for the summer of 1969. This is part of a \$695,940.00 building program including an addition and alterations to the present New Castle High School.

The new building, which is the first new Craig County School in more than 30 years, is located on Virginia Route 615 approximately one and one-half miles northeast of New Castle, the county seat, and was designed to serve kindergarten and elementary pupils through the sixth grade. The school consists of twelve classrooms, two kindergarten rooms, library, kitchen and multipurpose room, for a total area of 28,500 square feet.

Framing is of structural steel with

steel joists and a built-up roof on metal deck. Acoustical deck is used over the multipurpose area. The design includes room for future expansion

The exterior is of brick with aluminum windows featuring porcelain enamel panels above and below the windows. Windows are glazed with solar gray glass, which through its light filtering qualities eliminates the need for shades or Venetian blinds, resulting in a considerable saving in initial expense as well as maintenance costs. Also featured is a clerestory of porcelain enamel panels.

Interior walls are of painted block with a glazed block base. Terrazzo floors are used throughout in the classrooms, corridors and administrative area. The kitchen and dishwashing area have glazed block wainscot and

quarry tile floors. Acoustical tile ceilings are used in all areas.

The school is situated on a tract of land slightly in excess of 18 acres. The site is most desirable from the standpoint of development of the athletic program in that the land is almost perfectly flat, which will allow the location of the various athletic fields with very little site work.

The location required the installation of a well to assure an adequate water supply and also necessitated the construction of an extensive sewage disposal system.

Architects for the entire program are Wells, Meagher and McManama. Sowers, Rodes and Whitescarver are the consulting engineers for heating, plumbing, sewage disposal and electrical work. Watts and Breakell, Inc. are the general contractors.

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Watts & Breakell, Inc., general contractor, foundations, carpentry; Roanoke Ready Mix Concrete Corp., concrete supplier; Al-Steel Fabricators, Inc., steel; Roanoke Iron & Bridge Works, Inc., steel roof deck & steel joists; Roanoke Engineering Sales Co., Inc., windows, steel doors & bucks; J. M. Turner & Co., Salem, grading; Old Virginia Brick Co., Inc., masonry; Leonard Smith Sheet Metal & Roofing, Inc., Salem, roofing, waterproofing and Pittsburgh Plate Glass Co., glazing.

Also, Hesse & Hurt, Inc., painting; John H. Hampshire, Inc., acoustical, plaster & resilient tile; Byrd Tile & Terrazzo, ceramic tile & terrazzo; Valley Lumber Corp., millwork; G. J. Hopkins, Inc., lighting fixtures & electrical work; Lowe & Nelson Plumbing & Heating Corp., plumbing fixtures, plumbing & heating and Graves-Humphreys, Inc., hardware.

ST. THOMAS HALL CATHOLIC CENTER

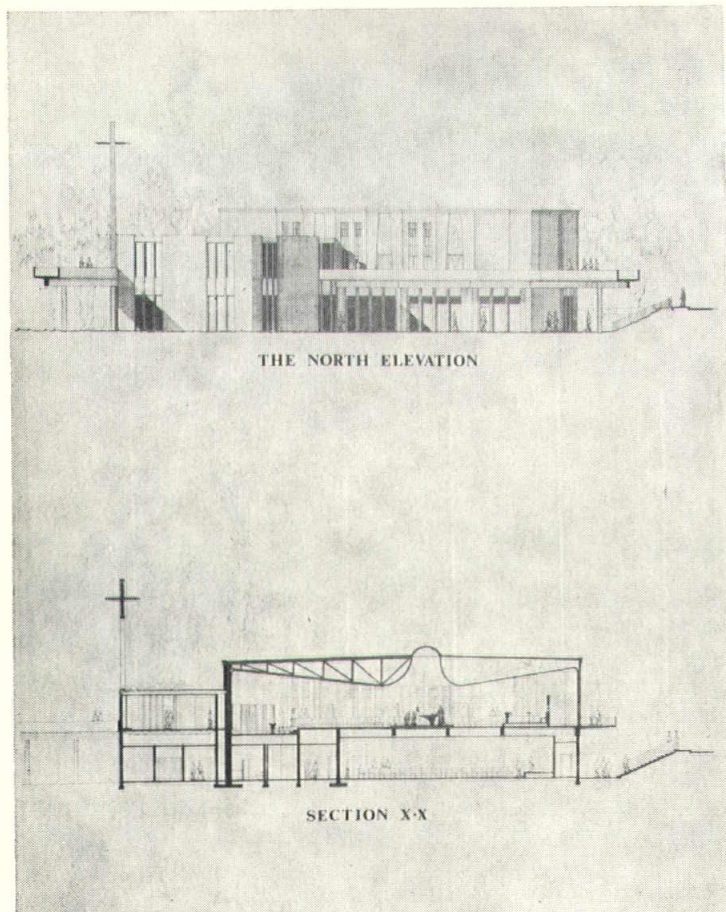
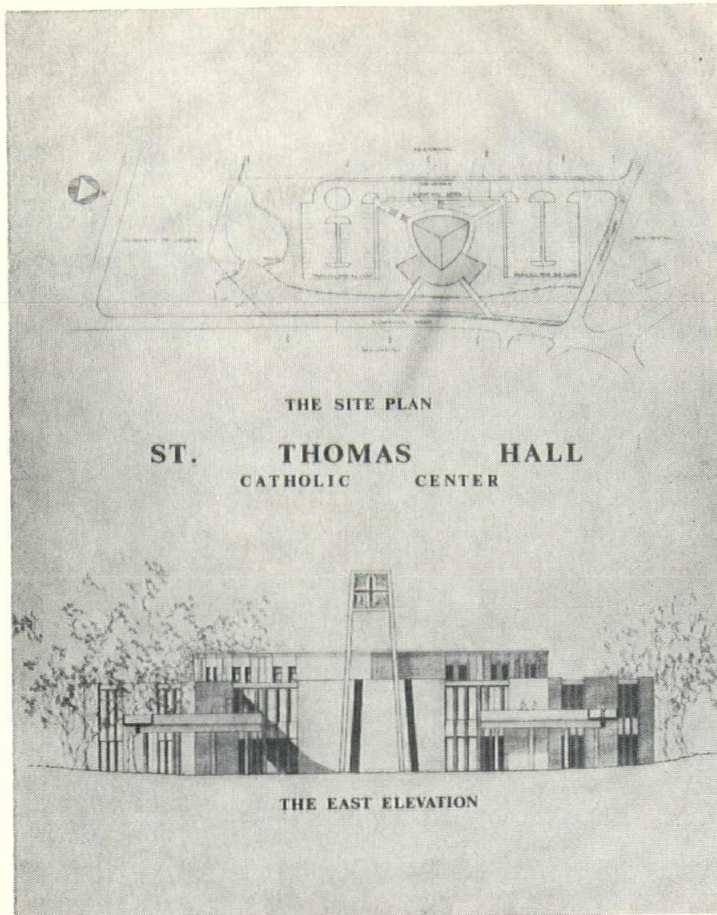
UNIVERSITY OF VIRGINIA

GRIGG, WOODE & BROWNE
Architects & Interior Designers

WILLIAM ZUK & THOMAS HANSEN ASSOCIATES
Structural Consultants

BRANDT & MORSE
Mechanical Consultants

R. E. LEE & SON, INC.—General Contractors

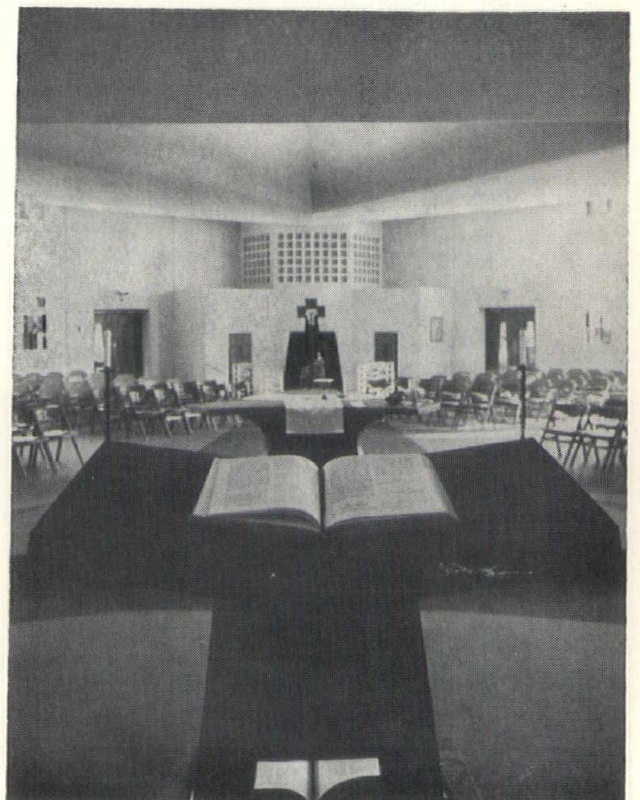
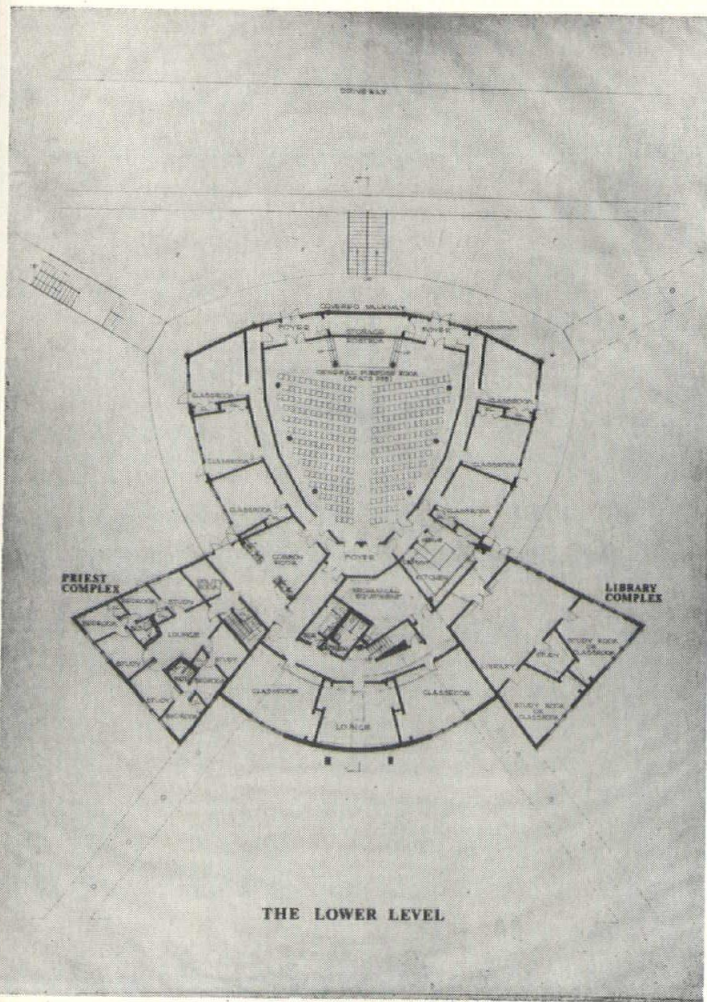
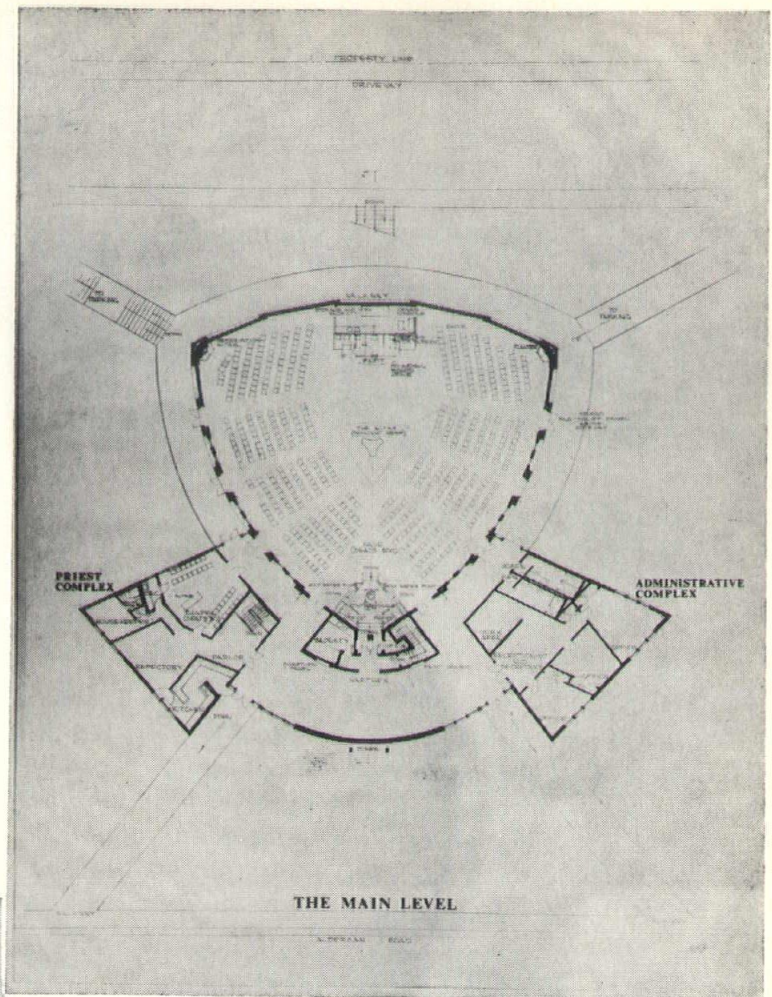
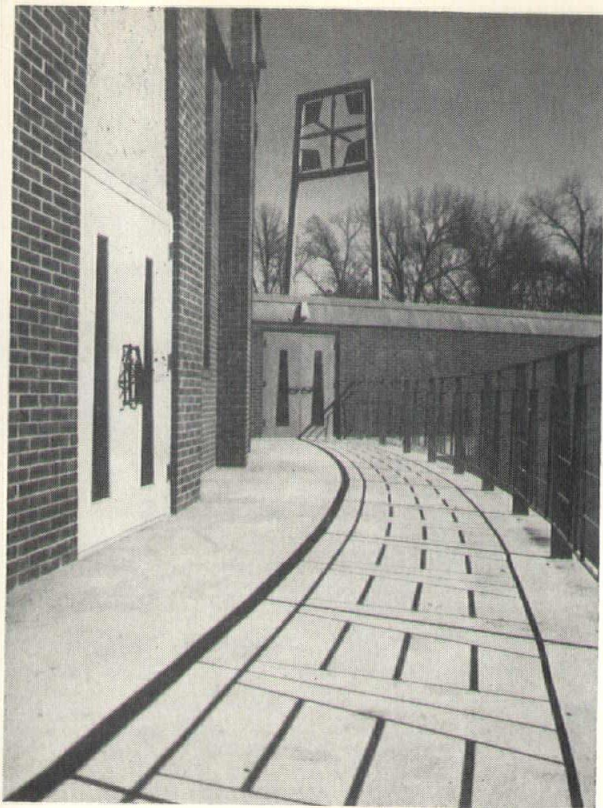


THIS PROJECT, located on Alderman Road adjoining the grounds of the University of Virginia, is a combination teaching and worship facility, and while serving as a center for theological and social studies at college level also houses and ministers to a large and unique Catholic parish of the University community. The present structure is the first of a three phase master plan (as this is being published the second phase of construction is being activated). The first unit provides facilities for the gathering of some seven hundred people and is so arranged that multiple functions can be accommodated even in advance of the completion of the more identified spaces. The unique structural system, essentially reinforced concrete with brick curtain walls, evolved through the close collaboration in the conceptual phase of the project between the closely integrated design team made up of the architects and the consulting engineers. The constructively critical and imaginative participation of the clergy staff made possible the development of a program perhaps unique in a center of this type.

In a recent statement issued in connection with the exhibition of the building, architect Milton L. Grigg stated:

"The design of St. Thomas Hall reflects the results of the Vatican II Council. It reflects response to considered questioning of our traditional concepts of the quality of space particularly sacred space versus profane space. Its interior space configuration symbolizes the purpose of the Center for an outward thrust of ministry as distinguished from an internal meditative piety. To accomplish these purposes, significant departures from traditional space and furnishings concepts were necessarily introduced. All motion is upward and outward from the altar; around this altar, in flexible seating arrangements, the congregation may gather in an environment which can be changed according to the immediate use and size of the group since all seating is to be provided in free-standing chairs. Indeed, lectures, concerts, conferences—all activities with sacred purpose are considered eligible to occupy this space. The triangular shape of the worship room is not self-consciously contrived as a Trinity symbol; although this iconography does permit a symbolic placement of the Creator, the Redeemer and the Sanctifier. The triangular-shaped altar relates and seems to respond to the concentric seating of the gathered community and does permit more seemly con-celebration of the Mass by multiple clergy and more meaningful

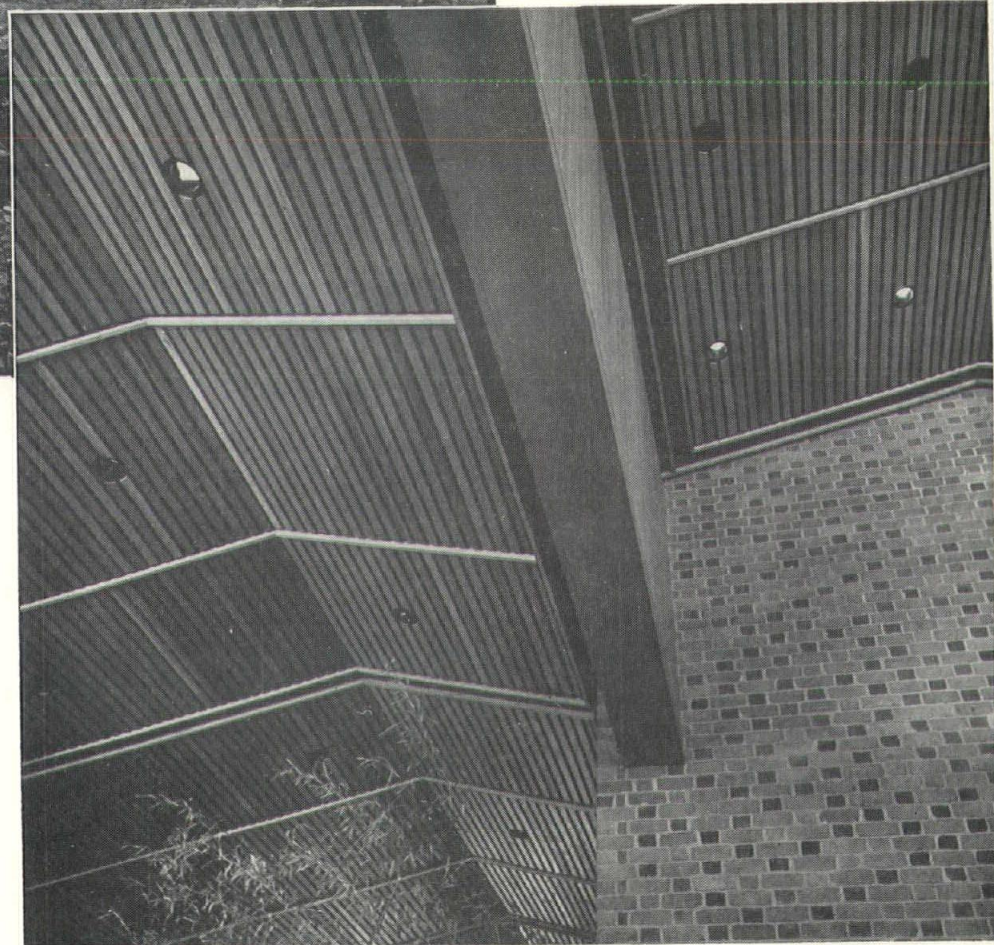
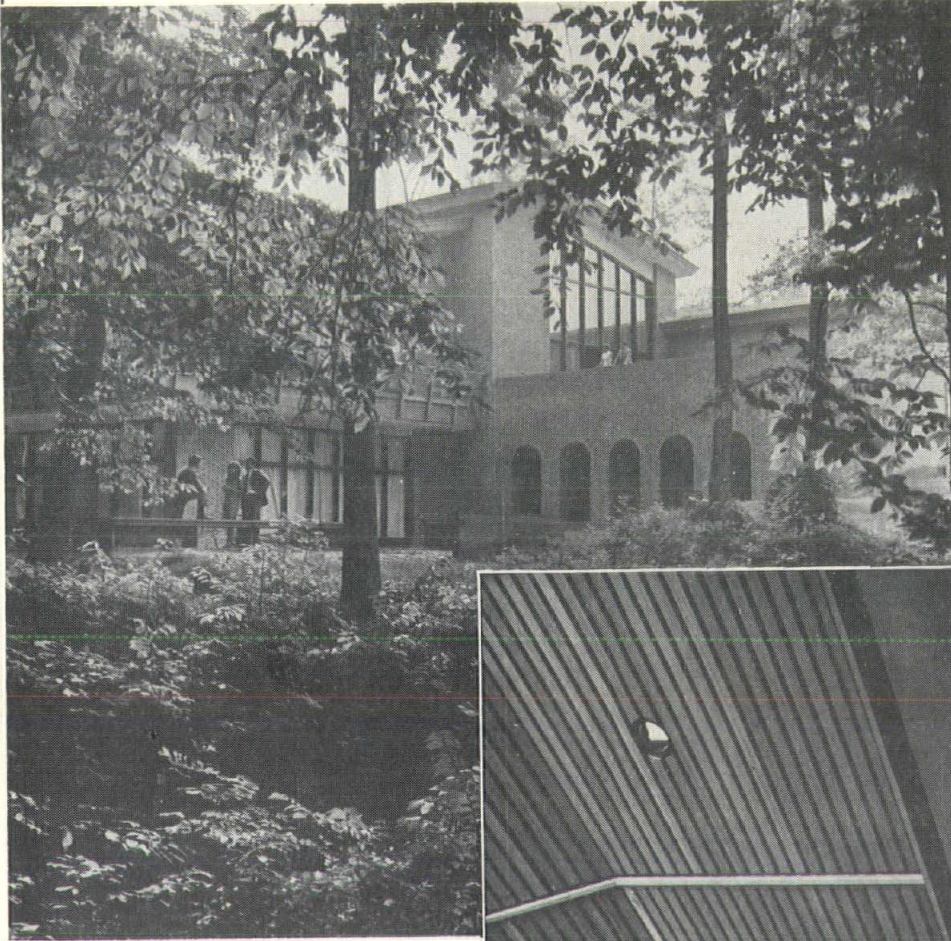
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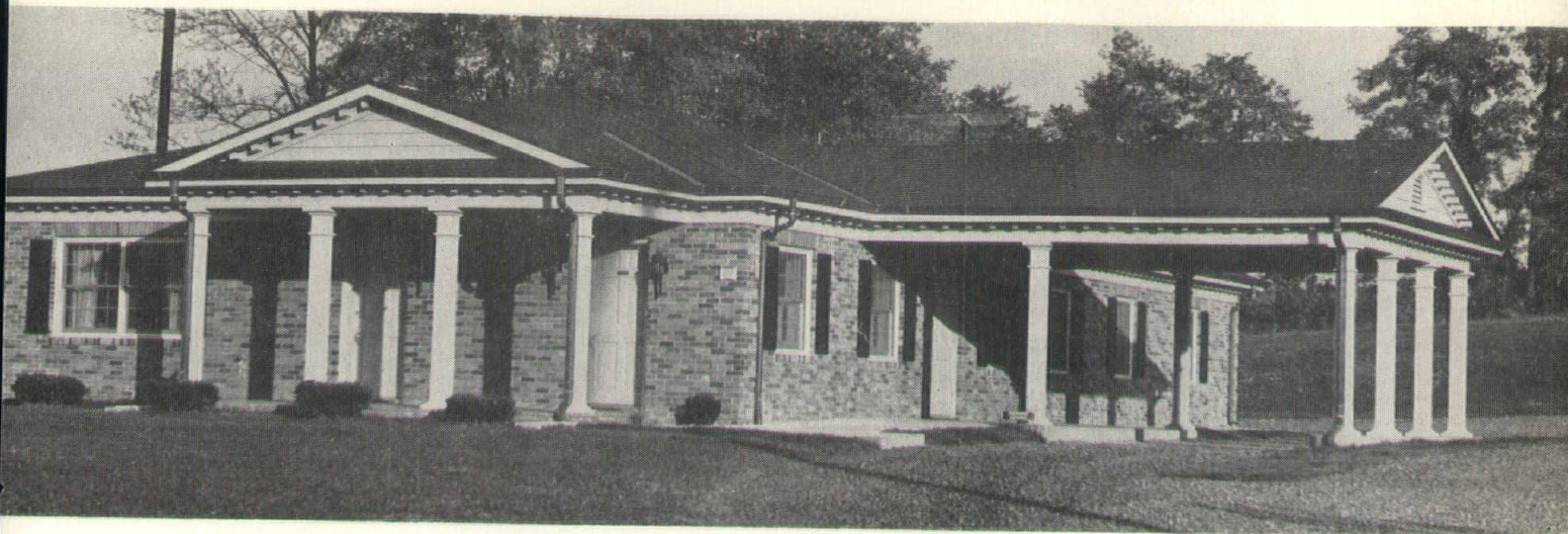
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Award Winning Animal Hospital

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THE LINDEN HEIGHTS Animal Hospital, 274 Linden Drive, Winchester, has been unanimously selected as the best animal hospital built in the United States in 1967. The award was presented by J. W. Prewitt, Editor of Veterinary Economics, sponsors of the annual award. The hospital was chosen the best from a field of 29 finalists by a panel composed of three veterinarians and an architect.

The main points used by the judging panel were how well the doctor solved his individual needs, how well he constructed his hospital within his economic situation, and how effectively he could practice veterinary medicine within the space commitments. Each hospital was judged on its functional capacity.

The hospital was designed by Hubert T. Stratton, AIA of Winchester to reflect the traditional style architecture of the area and to serve as a complete medical and surgical facility for pet animals.

The hospital site was selected in a residential zoned area which is undergoing rapid growth. All of the land around the hospital is being developed for residential purposes. A high school, elementary school, parochial school, and a new 1,200 pupil junior high school are all within a few blocks of the hospital.

The hospital building was set back from the street to blend into the rural setting and present an attractive front lawn to the public. This placement preserved the residential character of

the neighborhood and provided easy access to the eight client parking spaces.

There are four, staff parking places located at the rear of the building near a turn-around circle. There is ample on-street parking on both sides of the street. As the need arises, off-street parking can be provided in front of the hospital.

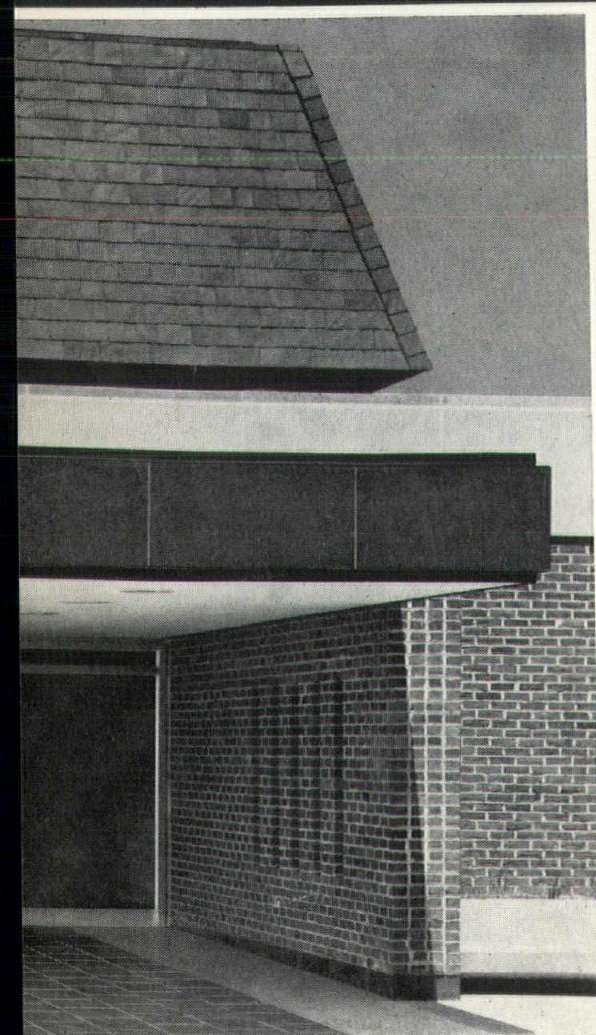
The building position allows for future expansion. The utilities were stubbed out in the ward area and all

services located for easy access when future construction is needed.

The exterior walls of face brick give the color and texture of traditional design and require a minimum of maintenance. The front porch is albarene stone and contrasts with the brick. A portico offers client protection in inclement weather without destroying the building's residential image. All windows have interior bi-fold louvered shutters to eliminate curtains

(Please turn the page)





A winning design uses Buckingham[®] Slate...naturally

Buckingham Roofing Slate, Facia Panels, Exterior Paving and Interior Flooring combine as design features to compliment the total design of Forrest Coile & Associates Christopher Newport College building. This outstanding Virginia building was awarded a certificate of merit at the 1968 Virginia Museum of Fine Arts bi-annual Architects, Designers and Photographers Show. Buckingham Slate Catalogs are in Sweet's Architectural File and the Building Stone Institute's Stone Catalog.

Photo by: Taylor Lewis

BUCKINGHAM-VIRGINIA SLATE CORPORATION

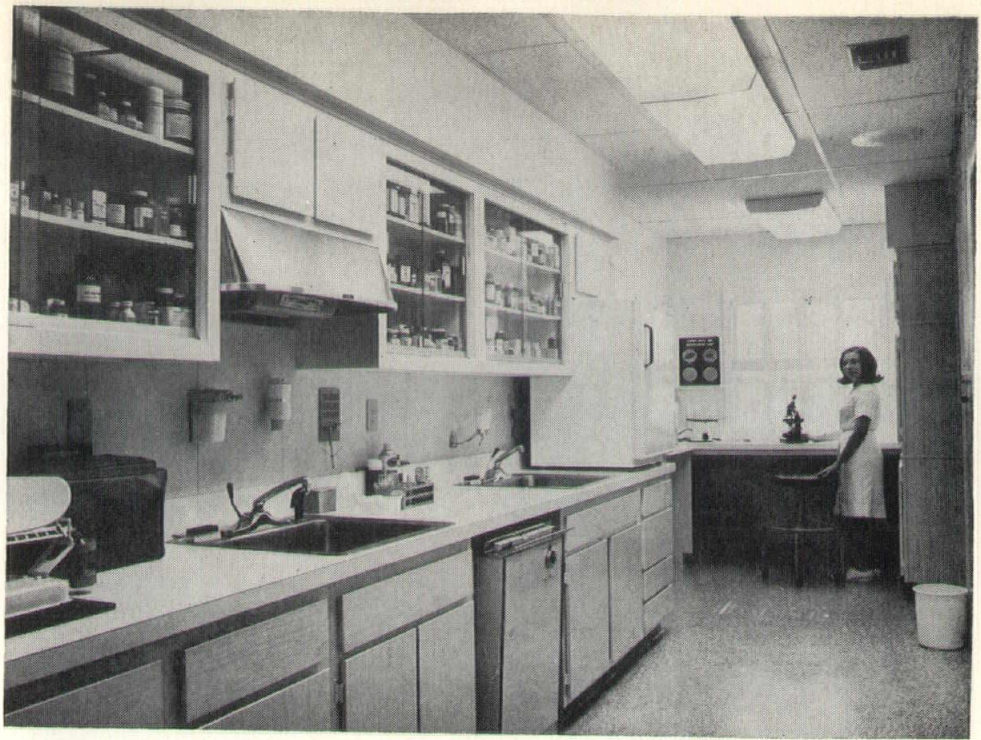
1103 EAST MAIN STREET • RICHMOND, VIRGINIA 23219 • TELEPHONE 703-643-8365

in work areas and present a uniform appearance from the outside. All windows are thermopane with snap-out muntins for quick and easy cleaning.

The roof is surfaced with twenty-year asphalt shingles. The material blends into the building design and was reasonable in cost and has a lasting quality.

Two front doors admit clients, one is to a cat waiting room and the other to the dog waiting room. The rooms are separated by bi-fold louvered doors which can be opened in the event of a patient overflow in either of the two rooms.

The waiting rooms and the receptionist's office are paneled in regimental red wood to wainscot heights. The rest of the walls are wallpapered in an American eagle design. This created warmth in the rooms where upholstered furniture and carpeting would be impractical. The furniture selected was Ethan Allen antique pine.



Subcontractors & Suppliers
(All Winchester firms)

Wilson's Building Service, general contractor, foundations, concrete, masonry, carpentry, glazing, painting, weatherstripping and insulation. Also, Perry Engineering Co., excavating; Orville Wine, roofing; Commonwealth Tile Corp., stone work; Rhodes Brothers, Torginol wall & floor finish; The Floor Shop, acoustical & resilient tile; Elwood McIntire, millwork; Burl Carpenter, lighting fixtures & electrical work; M & R Plumbing & Heating Co., plumbing fixtures, plumbing, air conditioning, heating & ventilating and Miller's Hardware Store, hardware.

A public lavatory was located out-of-sight of the waiting rooms and down the hallway. This location eliminates much unnecessary traffic by visiting children. Also, in the hallway is a water cooler for the convenience of both clients and employees.

The receptionist's office has pass-through windows into each waiting room and the corridor. These admit exterior light, allow visual control of the rooms and traffic flow, and enable her to transact business with the clients.

Her office is the keystone to the client-practitioner traffic flow. It is here that the entire inter-hospital communications are centralized and all patient records, office files and equipment are maintained.

The doors from the two waiting rooms into the corridor have electrically controlled latches to prevent clients from wandering unannounced

(Continued on page 85)



HIGH RISE DORMITORY FOR STATE'S NEWEST UNIVERSITY

Architects:

LEE, KING & POOLE

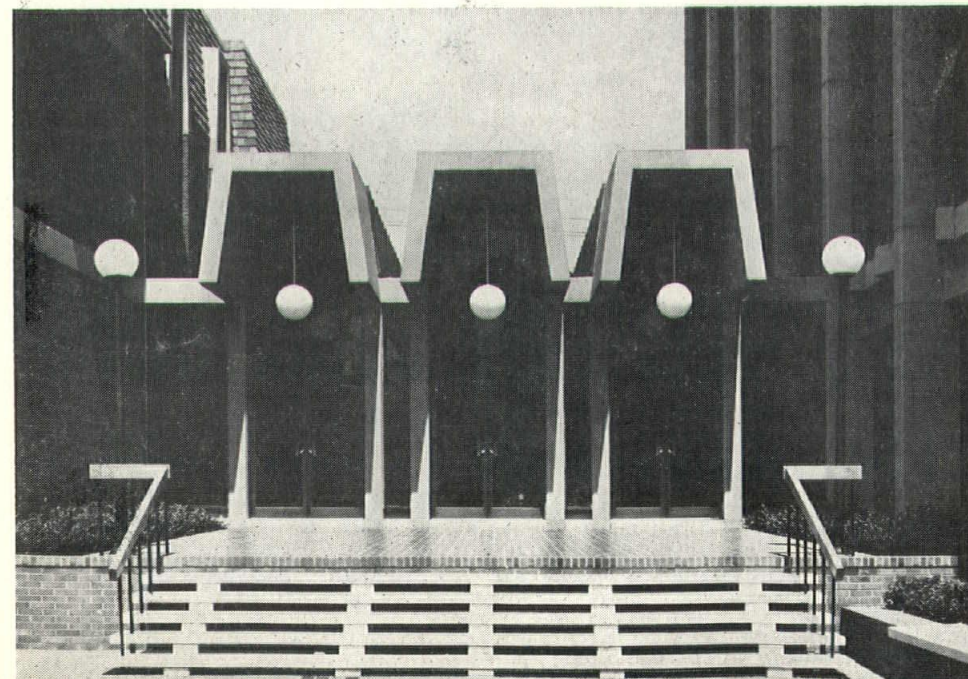
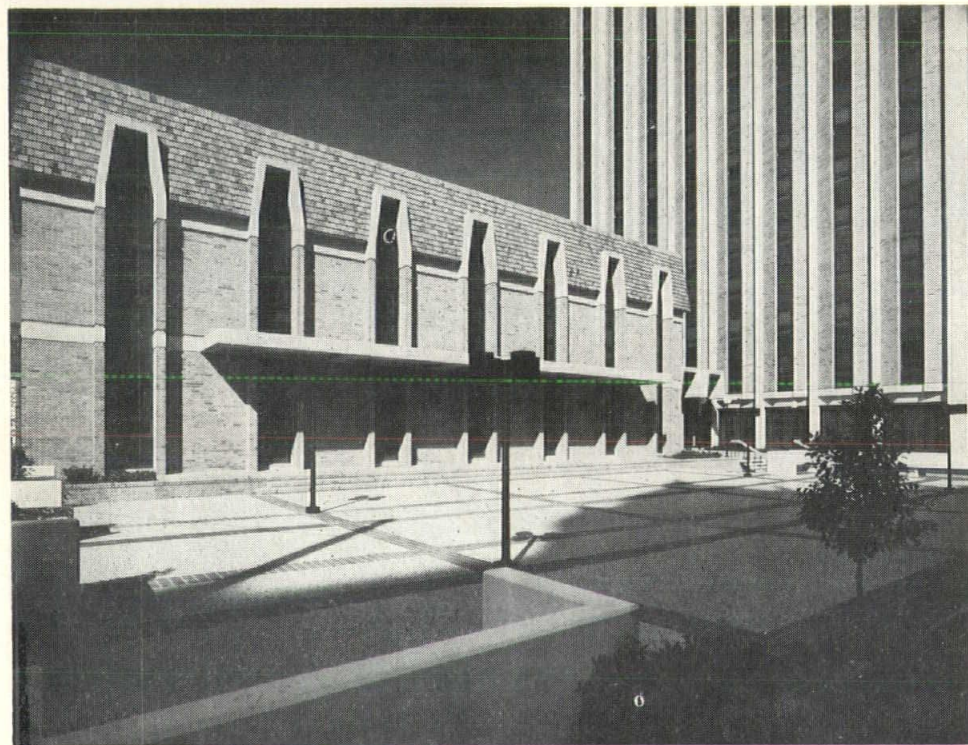
Engineers:

ROACHE, MERCER & FAISON—Mechanical & Electrical

WILLIAM T. St. CLAIR—Structural

LeFORT & STRITE ASSOCIATES
Interior Decorators

BASIC CONSTRUCTION COMPANY
General Contractors



Governor Godwin, in his speech at the dedication of Rhoads Hall, referred to the Richmond Professional Institute as the "red-headed stepchild" of higher education in Virginia. This stepchild is rapidly becoming the architectural Cinderella of Richmond.

Richmond Professional Institute, now part of Virginia Commonwealth University, began this transformation with the new women's dormitory at the corner of Laurel and Franklin Streets. It is appropriately dedicated in memory of Webster S. Rhoads, Jr., whose leadership as a member of R.P.I.'s Board of Visitors sparked this major program of modernization and expansion.

Rhoads Hall was financed through the sale of revenue bonds and cost \$3,250,000.00, including furnishings. The dormitory has accommodations for 719 students. The building is composed of an 18 story high-rise tower and a three story wing connected by an exciting glass and concrete entrance lobby. The tower is served by three, high speed elevators.

The bedrooms themselves are furnished with contemporary oiled-walnut furniture. Each room has direct communications with the desk in the lobby. The splayed exterior walls of the tower give these rooms an uncommon sense of spaciousness. Also located on the bedroom floors are laundry rooms and large study rooms.

Early in the planning of Rhoads Hall, a symposium of college girls across the state was held to determine and understand their needs and desires in relation to living accommodations. Wherever possible, their views were used as a guideline and incorporated in the design. As a consequence of this, there are a variety of activities provided for on the lower level of the tower. These include an

art studio, card rooms, TV room, piano studio and a library.

The first floor of the tower contains a reception desk, administrative office, two housemother suites, linen service and two lounges. One of these lounges contains a small kitchenette for serving light refreshments.

The first floor of the wing contains a third housemother's suite and a large multi-purpose room which is used for public functions. This room can be divided into small seminar rooms.

The site for Rhoads Hall was originally occupied by three Victorian houses. The two-fold problem in the design of this building was to plan a complete facility to house 700 women on a limited site while maintaining as much open space as possible and to make the building compatible with its environment.

Open space is particularly important at R.P.I. due to the lack of physical campus. The building was therefore planned to incorporate outdoor space as an integral part of the design.

The terrace in front of the wing is enclosed by massive cast stone benches, shrubs and the original wrought iron railing that has faced Franklin Street for more than 80 years. A broad entrance walk lined with seating leads to the elevated entrance lobby. The space in front of the tower is more formal in character with small benches spaced along a paved promenade. Three large crape myrtle trees separate this area from the street. In all, two-thirds of the site was left open.

The character of the Victorian House was synthesized and incorporated in the design of the three-story wing. The scale and detail of this building help relate the whole complex to the neighborhood. The splayed walls of the tower reflect the bay windows seen on the older apartment houses along Franklin Street. The entrance lobby is composed of three poured-in-place concrete bents, supported on columns and cantilevered at either end. This space reflects the contemporary character of the occupants and acts as an inviting focal point of the design.

One feature of Rhoads Hall that will not be apparent to the casual observer is a planned sunbathing deck on top of the high-rise tower.

With a superb view of Monroe Park, plus many of the luxuries of a resort hotel, Rhoads Hall has transformed the connotation of living on campus at R.P.I./V.C.U. from a chore to an eagerly sought privilege.

Photos by James M. McElroy

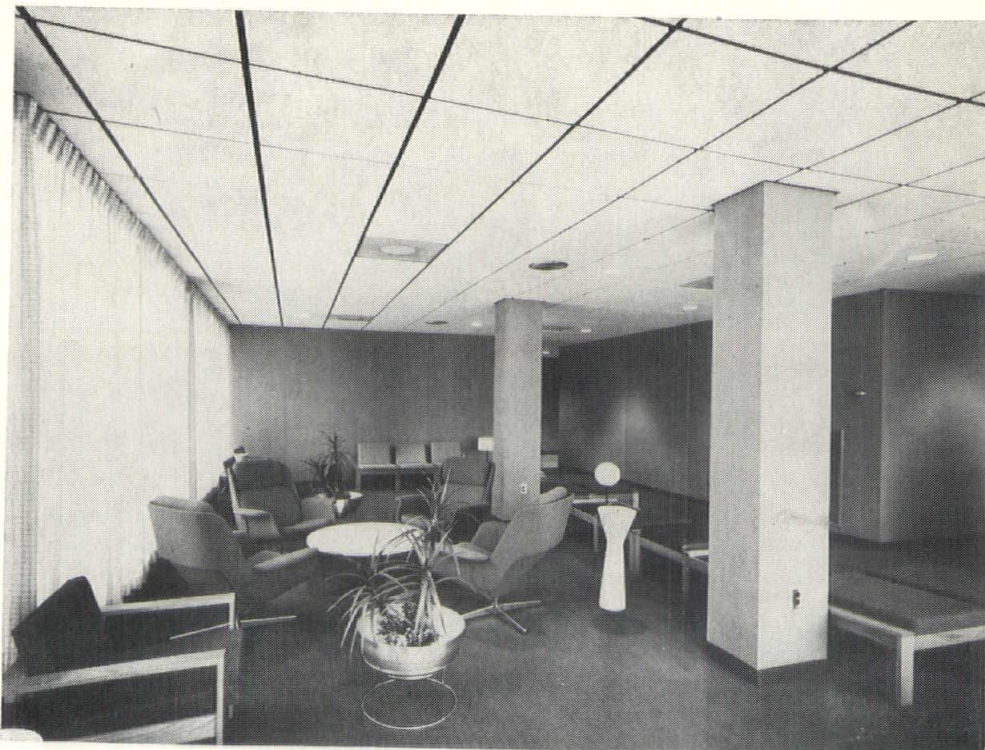


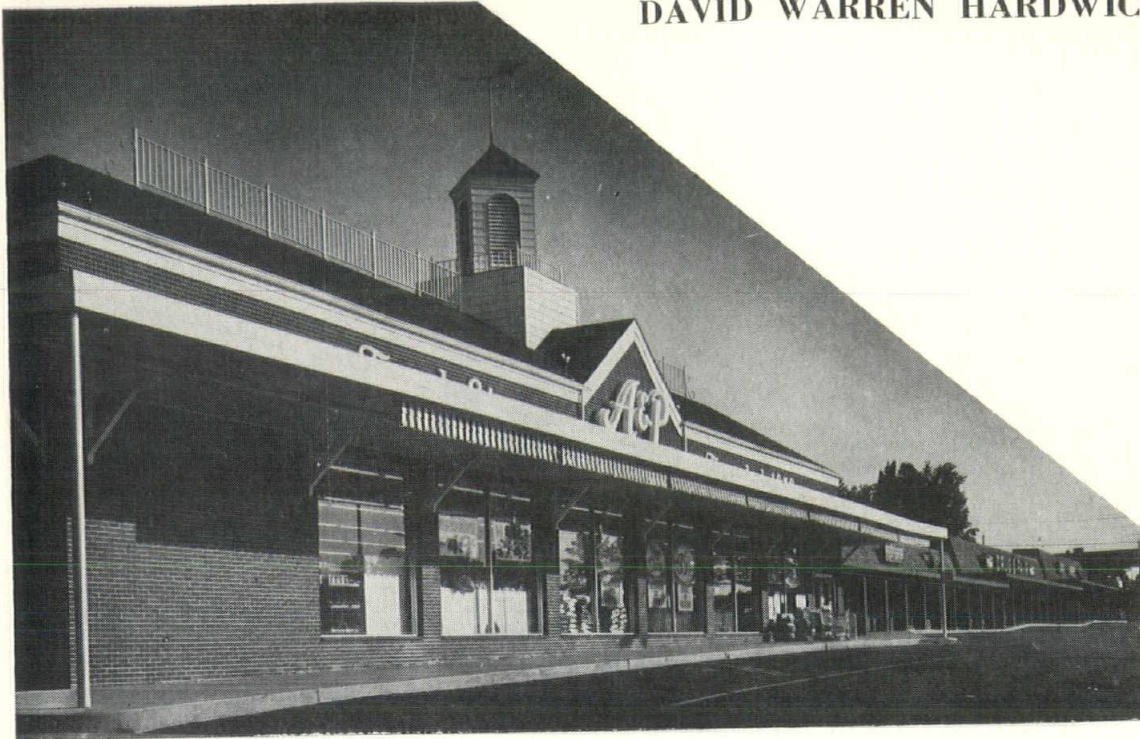
Subcontractors & Suppliers

(Richmond firms unless otherwise noted)

Basic Construction Co., Newport News, general contractor; E. G. Bowles, excavating; Southern Materials, concrete; Hammond Masonry Corp., masonry; N. W. Martin & Co., roofing, waterproofing; Economy Cast Stone Co., cast stone; Cupples Products, St. Louis, Mo., windows and window walls; Pittsburgh Plate Glass, glazing.

Also, Shaw Paint & Wallpaper Co., Hampton, painting, plastic wall covering, O'Ferrall, Inc., acoustical, tile (resilient); Wilton & Denton, Inc., plaster & drywall; Martin Tile & Marble, tile (ceramic); Campostella Building Supply, Norfolk, millwork; J. S. Archer, steel doors & bucks; Howard P. Foley Co., electrical work; William H. White, Jr., Inc., plumbing, heating, ventilating; W. W. Moore, elevators; Pleasants Hardware, hardware.





Ridge Shopping Center – Henrico County

ROBERT M. DUNVILLE & BROS.
General Contractors

THIS PROJECT located in western Henrico county was designed by David Warren Hardwicke & Partners to provide the owner with desirable commercial space and at the same time try to maintain the scale of the adjoining residential area.

Since one of the major tenants was an Atlantic and Pacific Tea Company food store of a standard "traditional" design used throughout the country, the architects employed a palet of tra-

ditional materials. This approach had a tendency to offset the slick appearance usually associated with commercial construction.

All of the commercial space, except the A & P, is located behind a soft mud brick colonade and Mansard roof formed of wood, finished with concrete shingles. The space generated by the colonade and natural materials has an intimate scale quite unusual in shopping center design.

SUBCONTRACTORS & SUPPLIERS (Richmond firms unless otherwise noted)

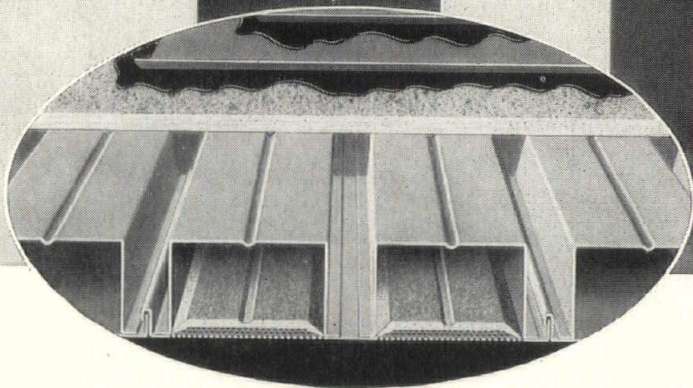
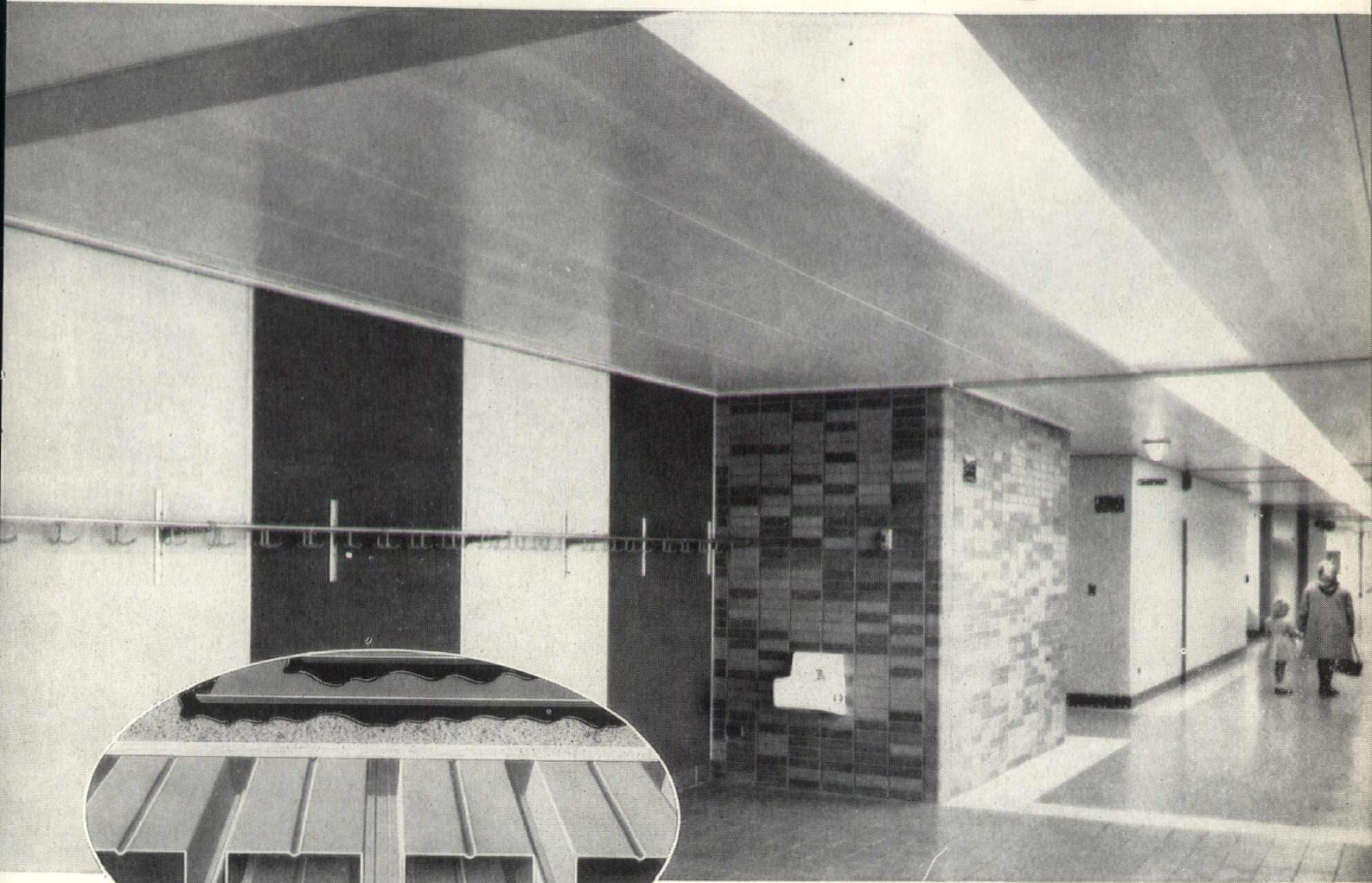
Robert M. Dunville & Bros., general contractor; air conditioning, heating & ventilating; F. G. Pruitt Co., excavating; Wilson & Nye, Hopewell, masonry; S & W Steel Co., steel; J. B. Eurell Co., roof deck; L. L. Caudle Roofing Co., roofing; Richmond Glass Co., window walls & glazing; W. W. Nash & Sons, painting.

Also, Fendley Floor & Ceiling Co., acoustical & resilient tile; Stonnell-Satterwhite, Inc., ceramic tile; Archer Door Co., steel doors & bucks; Ben Collier, electrical work and John W. Thurston, plumbing; Pleasants Hardware, hardware.

(Photos by James M. McElroy)



Multi-purpose roof deck systems



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GOLDEN SKILLET PROTOTYPE



(Photo by James M. McElroy)

FIRST BUILDING—ON RICHMOND'S BROAD STREET ROAD

ARCHITECTS: Rawlings and Wilson

ENGINEERS: Emmett L. Simmons & Assoc.—Mechanical
William T. St. Clair—Structural

GENERAL CONTRACTORS: Barker Construction Co., Inc.

WHEN THALHIMER BROTHERS, Inc., the Richmond based retail organization, decided to diversify, it is perhaps not too surprising that they decided to enter the field of franchising of convenience foods; nor having made that decision, is it surprising that they should choose to market Golden Skillet Fried Chicken, the creation of another Richmonder, C. W. Guthrie, Sr.

During the past twenty five years there has been a strong trend on the part of the public toward purchasing convenience foods. The heaviest users of these foods are in the highly mobile 18 to 34 age market; families in the

under-35 bracket are said to buy nearly 20% more convenience foods than those over 35. Families in this group have substantially more children than the over-35 group and families of four or more people apparently spend disproportionately more for convenience foods than smaller families.

Department of Commerce statistics have shown that while the overall amount of food consumed per person per year has remained constant since 1945, the amount of poultry consumed has soared dramatically. Twenty years ago the average consumption of poultry was 22 pounds per capita. Today, however, this figure has more than

doubled and it is expected to continue climbing in the years ahead.

Finally, a highly noticeable outgrowth of the trend toward convenience foods has been the astonishing development of the food-franchising industry over the past ten years. Put these items together and you have Thalhimers' Golden Skillet Fried Chicken Drive-in Restaurants.

A fried chicken dinner is quite a different sort of meal from hamburgers and french fries. It is a homelike meal with connotations for many of family dinners and country picnics, of tradition and quality. Thalhimers'

(Continued on page 87)

FAIRFAX PRESBYTERIAN CHURCH

GRIGG, WOOD & BROWNE
Architects & Interior Designers

FORTUNE ENGINEERING
Structural Consultants

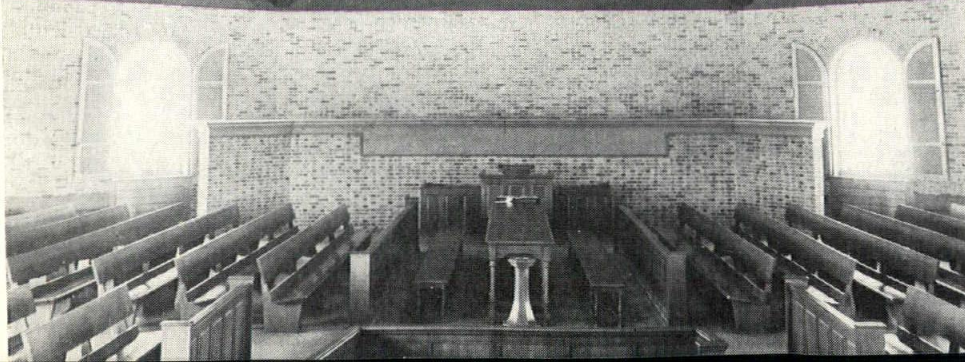
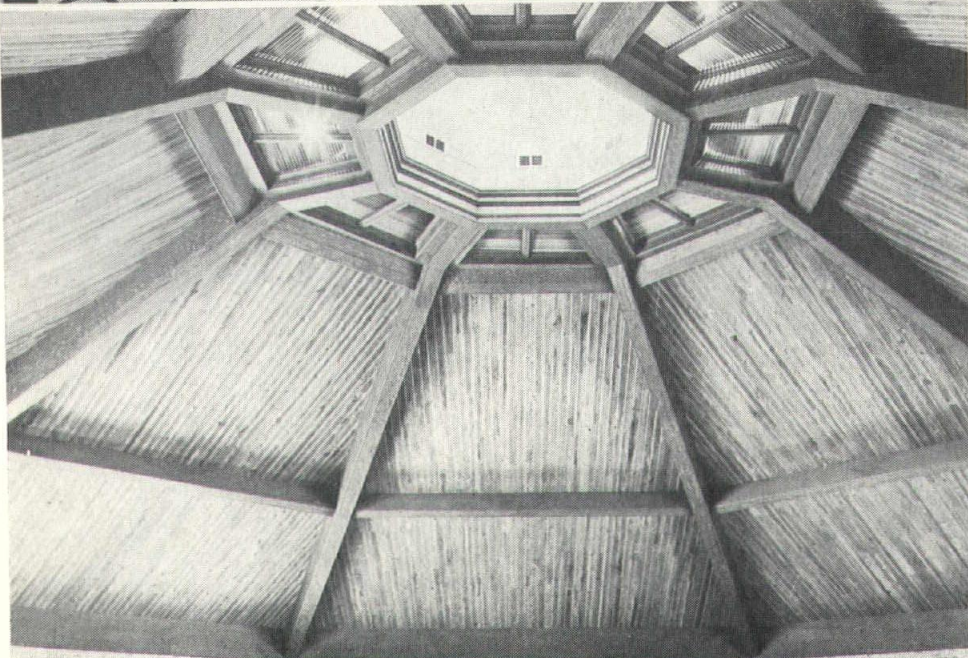
BRANDT & MORSE
Mechanical Consultants

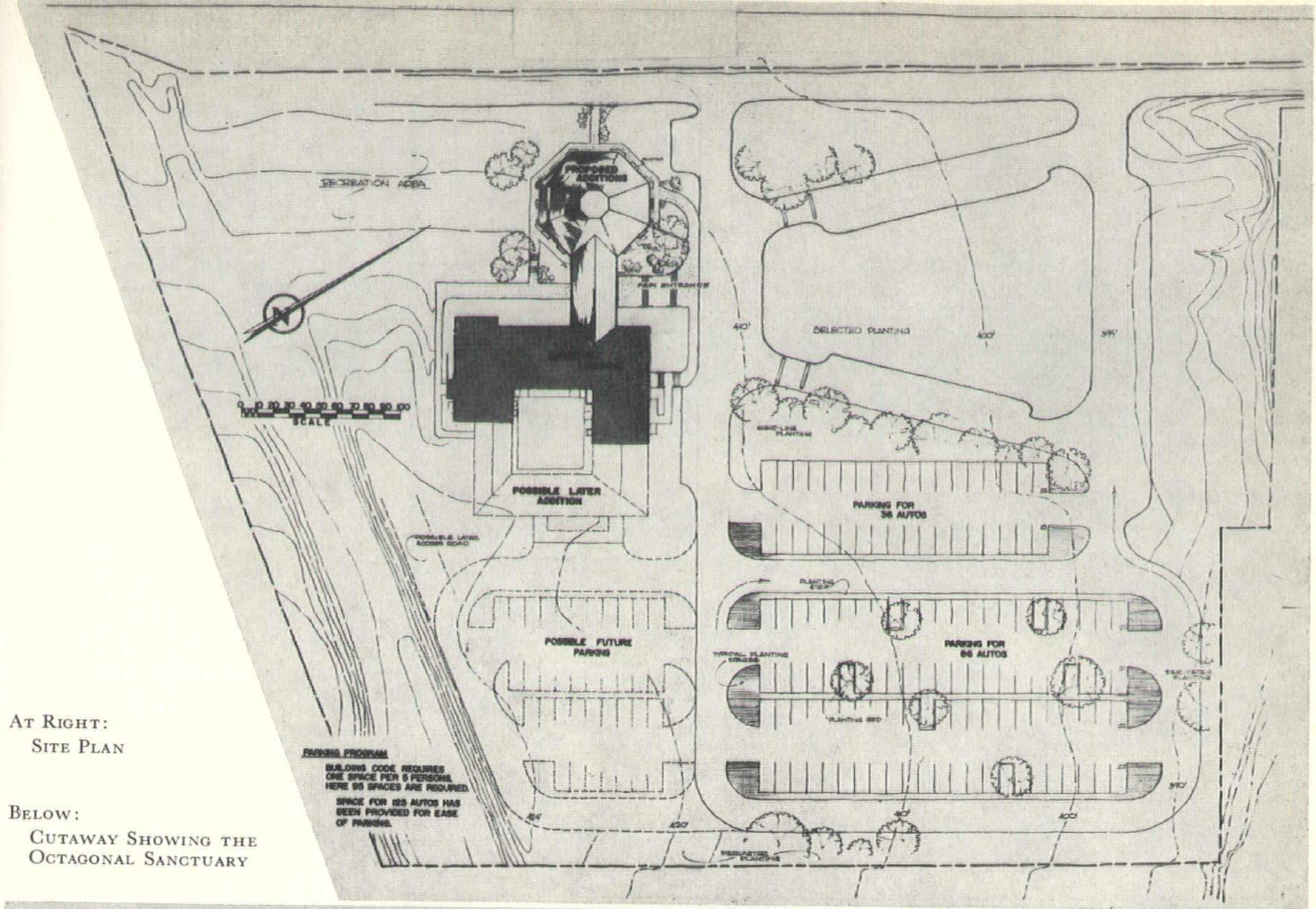
EARL K. ROSTI, INC.
General Contractors

THE SANCTUARY WING now on the Fairfax Presbyterian Church completes this Georgian style complex, the first unit of which was built in the forties under the able authorship of Edgar T. Jenkinson, A.I.A. The originally envisioned rectangular Virginia Colonial sanctuary mass was abandoned as a result of extensive research by the church officials in an attempt to create a building which would reflect contemporary trends toward the renewal of the worship forms and practices of the Presbyterians. The octagonal sanctuary plan was found to be one frequently employed in this tradition. As a result a seating arrangement expressive of the communal character of their worship was possible. The contemporary emphasis on the sacramental quality of the worship has been given architectural expression by the placing of the long communion table around which the Elders are seated as well as by the central location of the baptismal font.

A unique arrangement for music has been incorporated in that the choir is arranged as a part of the congregation occupying one segment of the octagonal floor space. The organ console is depressed in the floor in the midst of the congregation. This worship room is said to have such unique acoustical qualities that it is being used by community choral groups for secular performances as well as for the conventional worship services. No electronic speech aids are

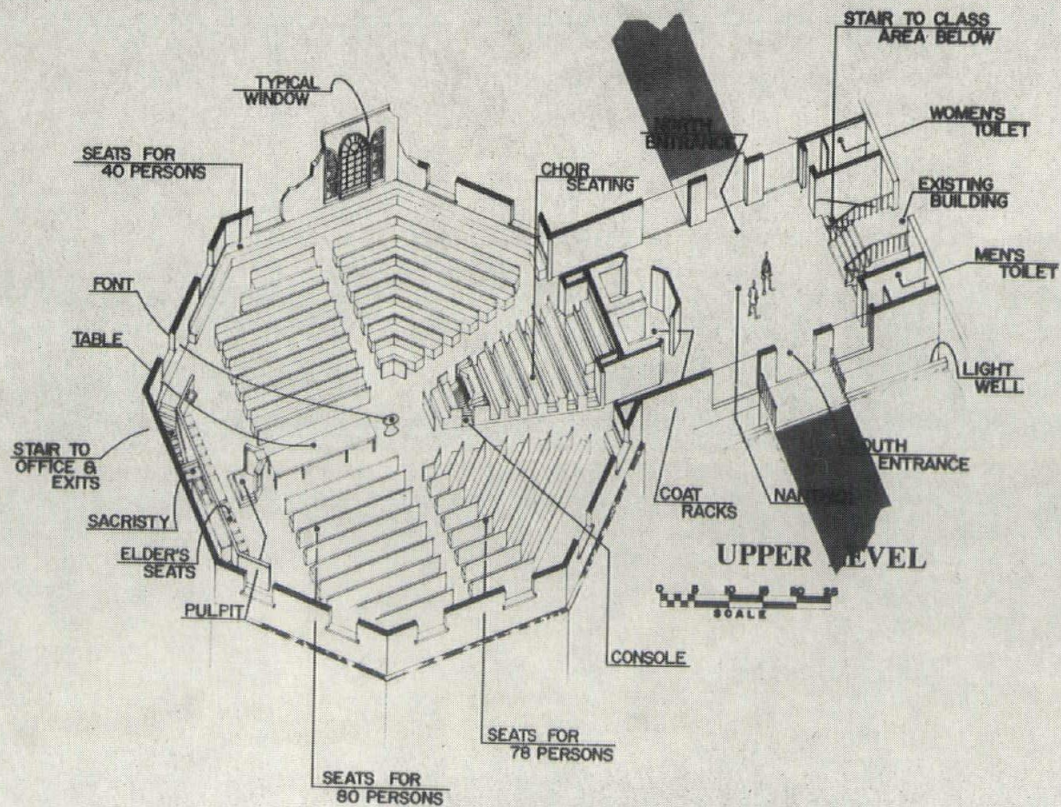
(Continued on page 83)





AT RIGHT:
SITE PLAN

BELOW:
CUTAWAY SHOWING THE
OCTAGONAL SANCTUARY



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AND
LOAN
ASSOCIATION**

RICHMOND

CHARLES SHIFLETT
Architect

EMMETT L. SIMMONS
Mechanical Consultant

WILLIAM J. BLANTON
Structural Consultant

MRS. HARRIETTE F. WHITE
Interior Decorator

DAVIS & SPIERS
General Contractor

**SUBCONTRACTORS &
SUPPLIERS**

(Richmond firms unless otherwise noted)

Davis & Spiers, general contractor; P. E. Eubank & Co., concrete; Coates & Coleman, masonry; Liphart Steel Co., Inc., steel; Frank C. Berger, roofing; Crystal Window Cleaning Co., windows; A. E. Tate Lumber Co., Inc., structural wood.

Also J. C. Hungerford, Inc., painting; E. S. Chappell & Sons, Inc., weatherstripping; James G. Rose Co., insulation; P & G Contractors, Inc., plaster; Fendley Floor and Ceiling Co., wood flooring; Central Electrical Service Corp., electrical work; Reams & Moyer, plumbing, air conditioning, heating; James C. Dillard, blacktop.

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The
Difference”*



(Photos by James M. McElroy)

THE HERITAGE SAVINGS AND LOAN Association Building located in the 4900 block of West Broad Street in Richmond, opposite the Willow Lawn Shopping Center, was officially opened for business in August, 1967. At the end of the first year, the bank had assets in excess of \$2,600,000.00. There are 350 stockholders and sixteen board members. C. Linwood Clements is President of the bank. Edward R. Parker is Chairman of the Board.

The Association is unique in that it is the only stock association in the Richmond area. Accounts are insured by the Federal Savings and Loan Corporation.

Architect for the building was Charles Shiflett.

Davis & Spiers were the General Contractors.



A-ha!



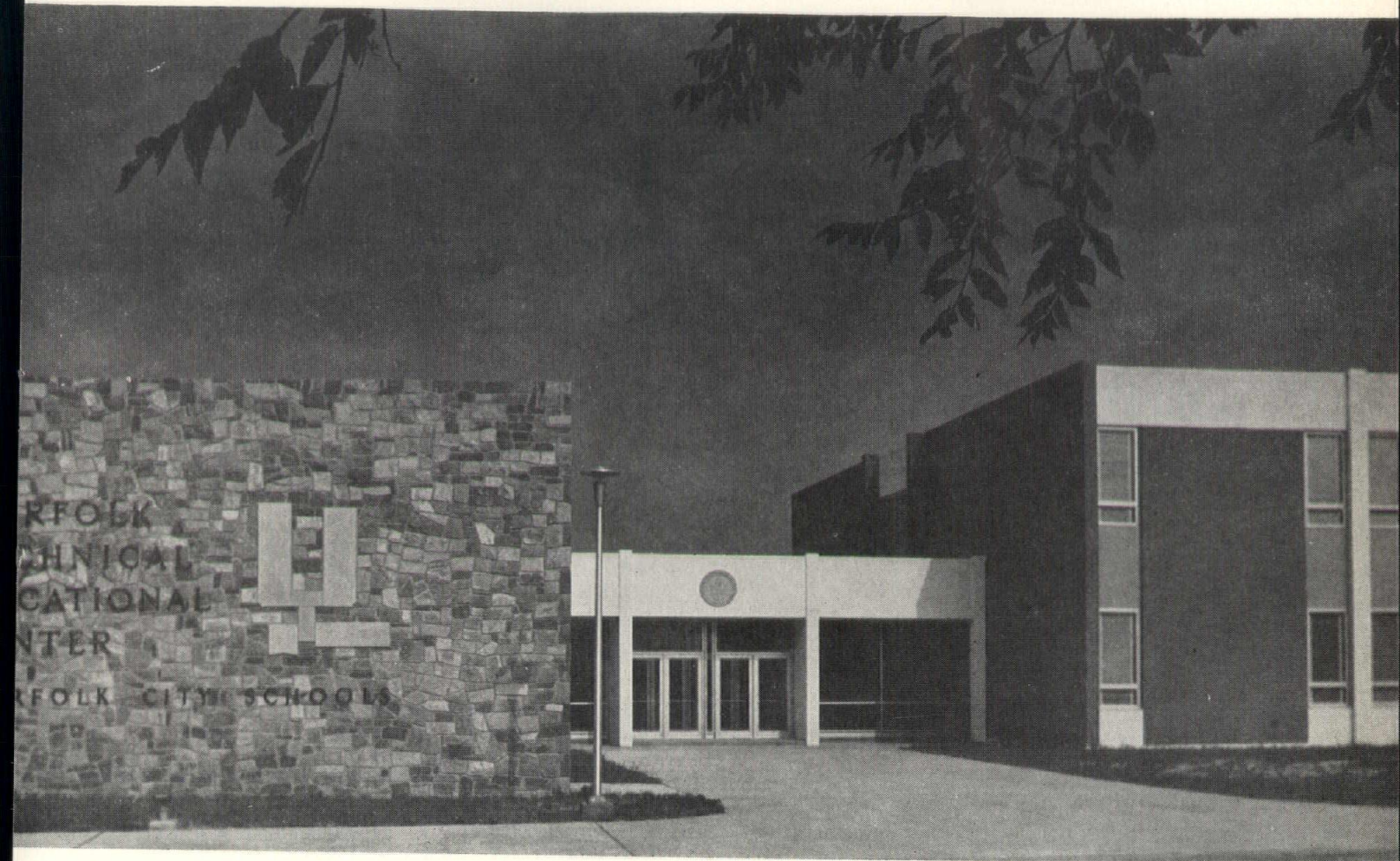
When you think about the hundreds of thousands of flawless tiles we send out, you can understand why some people get so carried away when they catch us in one tiny imperfection.

So, when you find one, go ahead and have your fun. It may be a once-in-a-lifetime opportunity.

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NEW SCHOOL TYPE IN NORFOLK



NORFOLK TECHNICAL-VOCATIONAL CENTER

McGAUGHY-MARSHALL & McMILLAN
Architects & Consulting Engineers

ROBERT R. MARQUIS, INC.—General Contractor

THE MASTER PLAN for the Technical-Vocational Center on Military Highway in Norfolk, has been developed by McGaughy, Marshall & McMillan. This new addition to the Norfolk School System marks the first time that the city has had a school specifically designed for the sole task of vocational and technical training.

The firm also prepared the plans for the first unit, a 125,000 square foot instructional building which is now completed. This structure will house nearly a thousand students in two shifts. The building is divided into four wings to resolve the conflict in activity and noise level among the various trades and techniques being

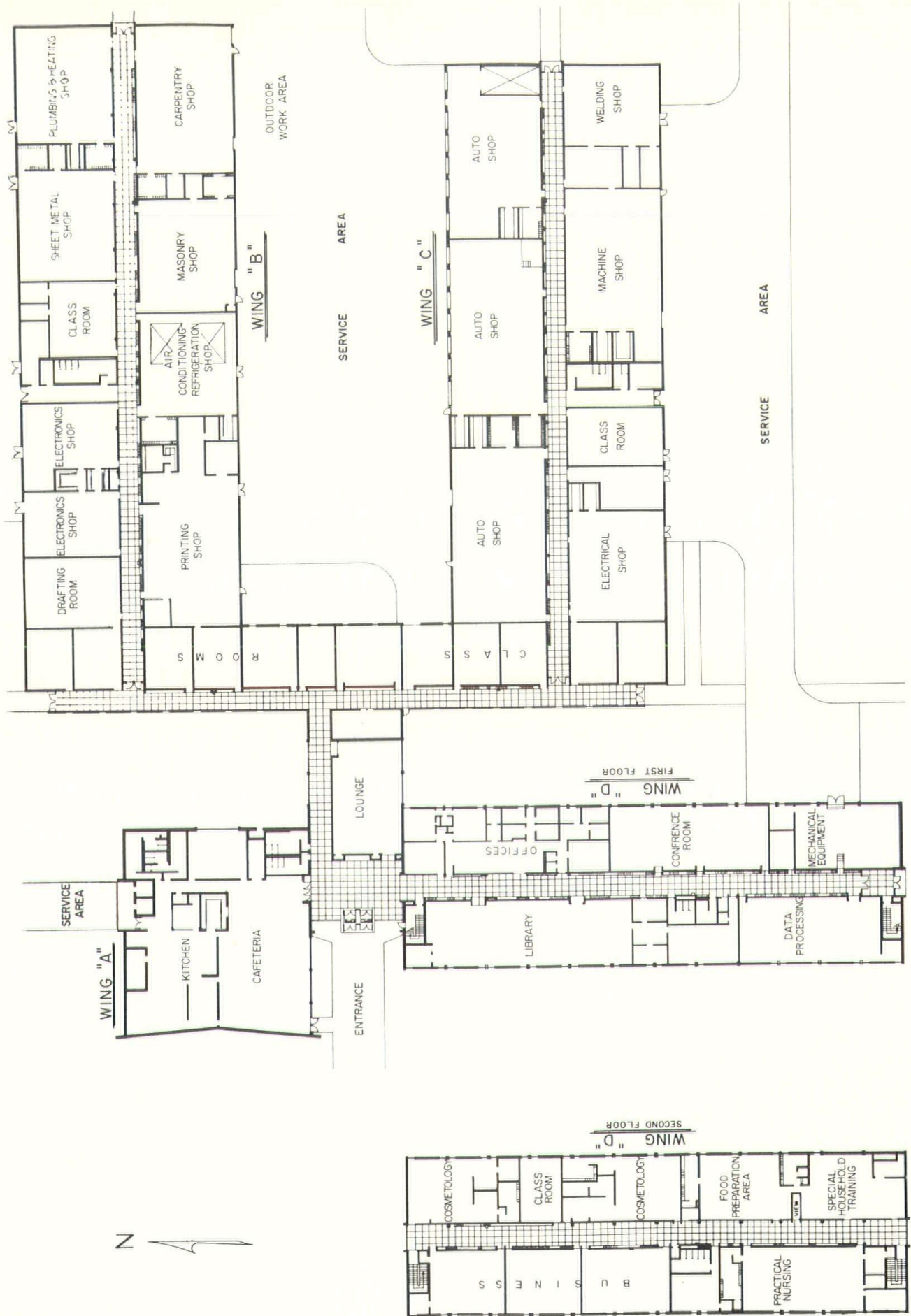
taught. Compatible courses and activities are grouped within each wing to provide the separation needed to permit all of them to operate effectively.

Spaces within the wings are designed so as to be adaptable to other uses. Should the interest in any vocation shift, the laboratory or work shop space assigned to it can be converted easily to another teaching mission. Expansion of the building, should the need arise, is facilitated by the layout of the four wings; all are open-ended and not blocked by another. Arranged tangentially to the center of the complex, they can be added to or new buildings can be added.

The entrance and the student

lounge are surrounded by the various wings. Wing A which contains the cafeteria, kitchen, storage areas and food service facilities, serves not only the day students in the vocational High School, but also evening students and those in the adult program. This area also acts as a training ground for kitchen trainees, cafeteria help and food checkers and cocktail waitresses. In order to train the morning and afternoon groups in all phases of restaurant operation, two meals a day are prepared and are cleaned up after, thereby enabling the two shifts of students from the Norfolk High Schools

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to complete the course. This is a new concept in training for these vocations.

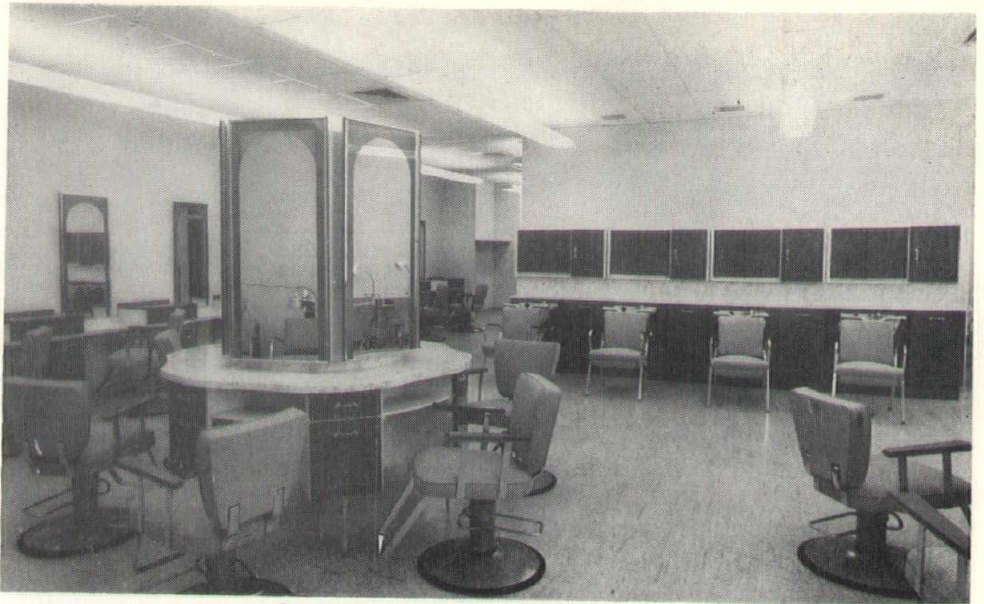
The student lounge is a valuable asset in that it provides a place for the adult attendees in the building trades, who generally quit work any-time from 3:30 to 5:00, to convene ahead of time for their evening classes without having to travel home and back.

As shown in the plans, Wing B is related principally to the building trade containing drafting, sheet metal, plumbing, heating and carpentry, masonry shop containing a mortar mixer, masonry saw, and a built-in wash-down system, and air conditioning training areas. Also in this wing are the printing and electronics shops.

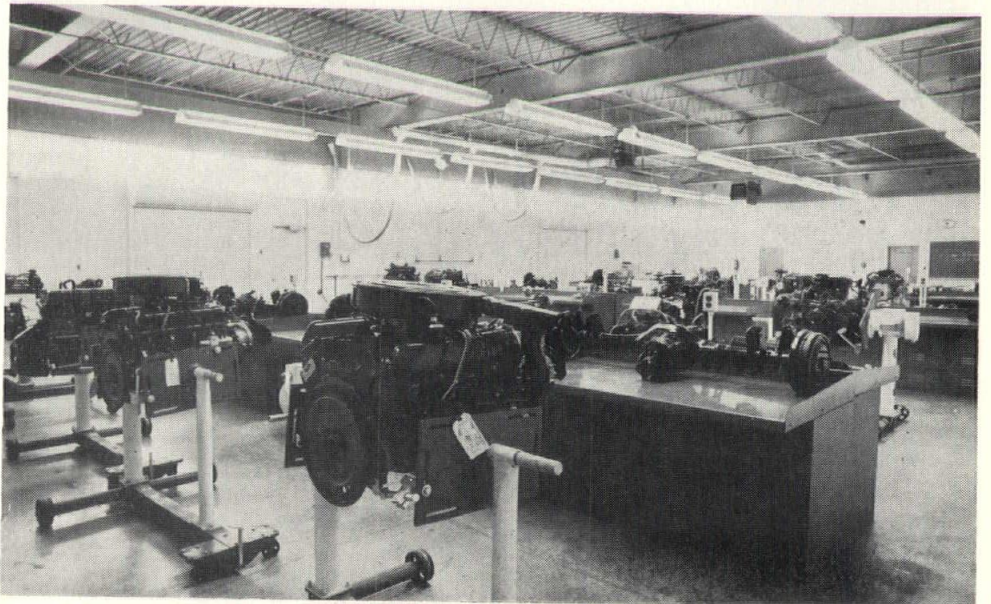
Between Wing B and Wing C there is a fenced-off lot and service area with accesses from the masonry and carpenters shop so these students can actually do their work out-doors enhancing the realism of the training.

Wing C is generally devoted to training in the automotive trades with an elementary and advanced shop and an auto body shop with a paint booth. Also there is an electrical shop which deals primarily in heavy installations such as motors and similar installations, a machine shop containing the latest and most expensive equipment and a welding shop. Across the front of Wings B and C are 12 classrooms which can be assigned to any of the shop activities or those from one of the other wings.

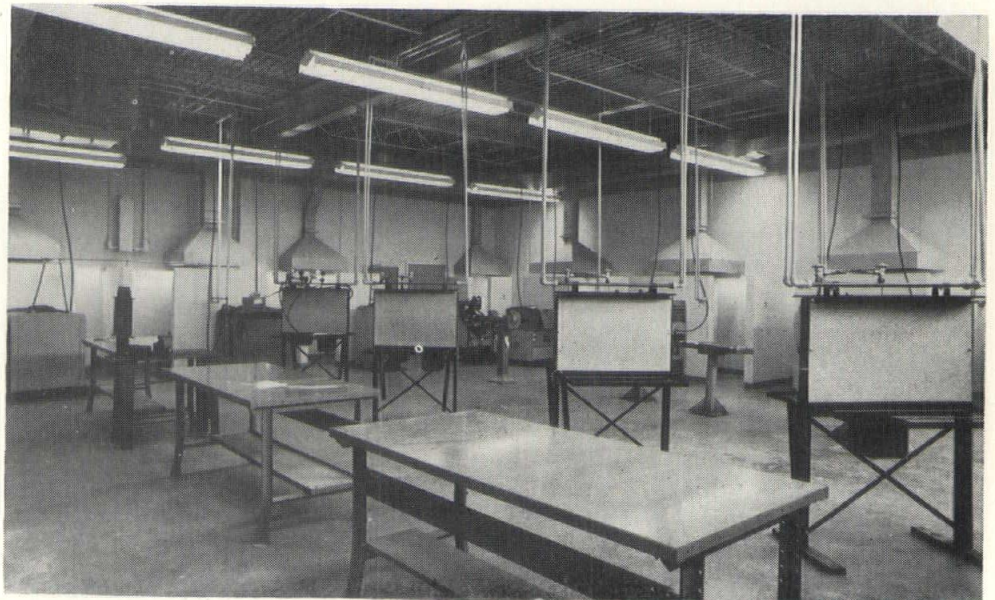
Wing D is the only two-story section of the complex and contains administrative offices and a large conference room which is the only area of assembly available. This space can be divided by folding doors into three areas each with its own entrance. The first floor also houses a large data processing training room with the most up-to-date equipment and a library with individual study carrels for the use of all students including those who may be able to utilize the facility during off hours. The second floor houses the Cosmetology laboratory which uses 25% of the floor space and is as complex and complete as any first class beauty salon in the area. State requirements are for 1500 hours instruction in order to complete this course. There is a household training and food preparation area containing a one-way mirrored room so that Instructors and students can watch the training process. The Practical Nursing laboratory hold hospital beds of six types and the various equipment used in hospitals. There are 3 business areas utilizing all types of modern

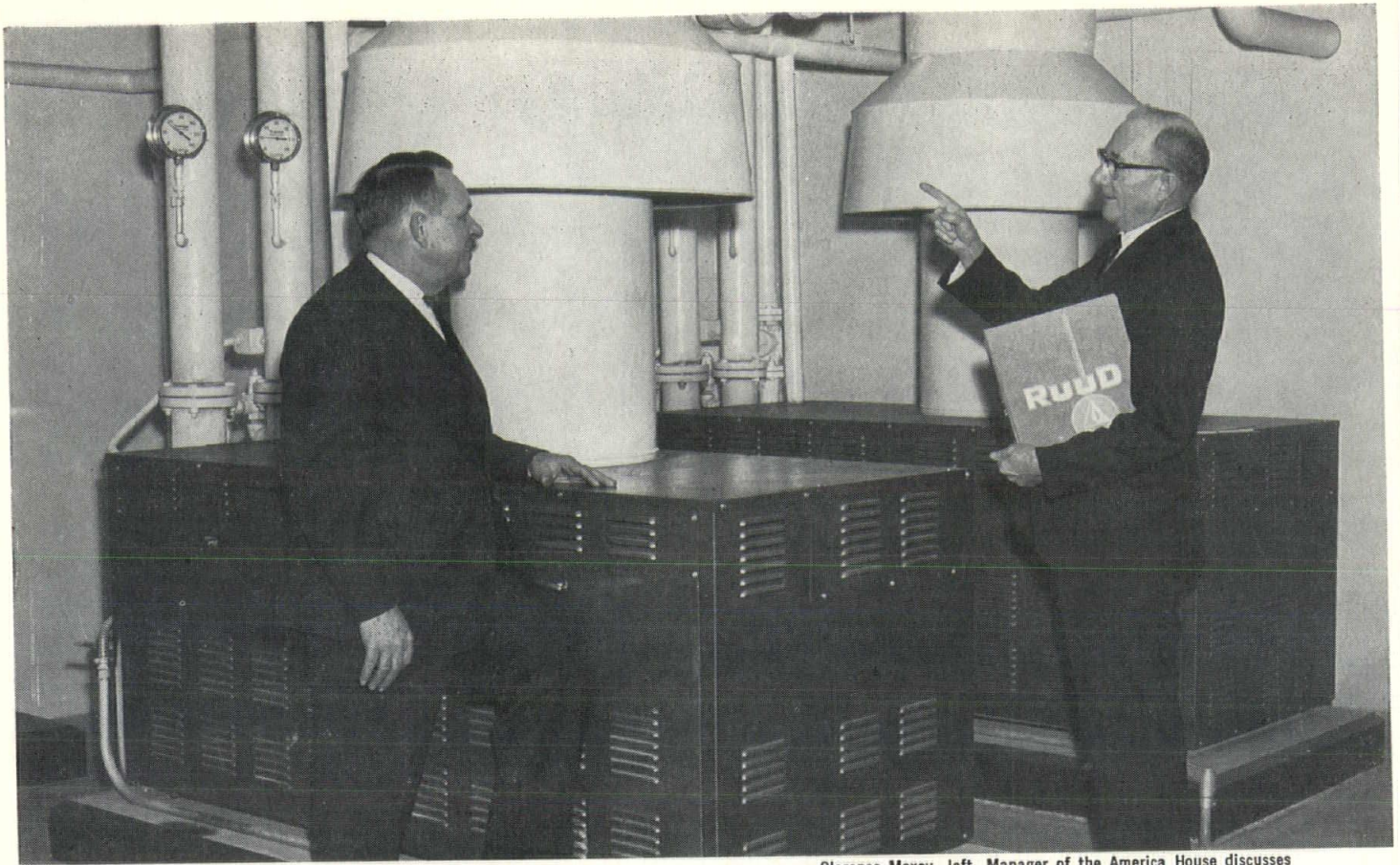


MODERN COSMETOLOGY LABORATORY



AUTO ENGINE ↑ WELDING ↓ SHOPS





Clarence Maxey, left, Manager of the America House discusses the Ruud Installation, 2HM 2400 copper multi-tube water heating boilers, with P. G. King, Sales Manager of the Petersburg & Hopewell Gas Company.

B.T.U.'s WITH AN AMERICAN ACCENT

How can a B.T.U. be produced faster, cheaper and more economically? That was the problem facing the America House in Petersburg, Virginia. And the answer for the 102 room motel was a Ruud copper boiler installation. Listen to G. A. Husten, Richmond Hotels Maintenance Engineer for 38 years.

"This Ruud multi-tube all copper boiler installation is the most satisfactory I've ever seen . . . and it's extremely compact, practically noiseless and definitely operates at top efficiency. Our highest gas bill, \$648.00, was for January, 1967, which represents total cost for all heating, motel hot water, and entire kitchen and dining room operations. You just can't beat a deal like that."

If you want B.T.U.'s with an American accent . . . give it the gas . . . nothing is better or cheaper.

INSTALLATION

Two Ruud all copper boilers supply all space heating, general purpose water and swimming pool heat. Boilers are equipped with special fuel saving controls . . . gas modulates to exactly match hot water demand or heating load.



VIRGINIA GAS COUNCIL

200 South Third Street, Richmond, Virginia 23219

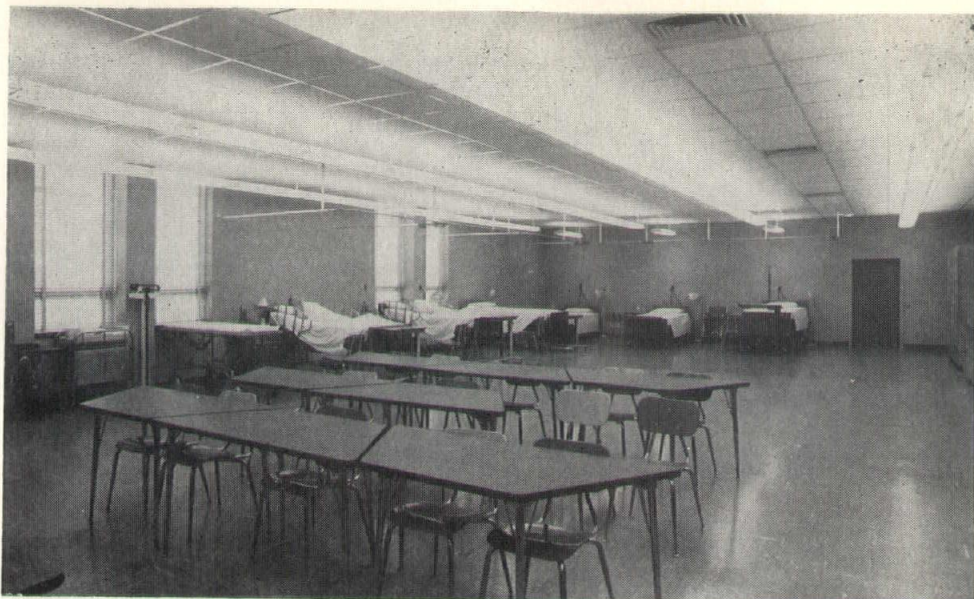
NOTHING GIVES MORE SATISFACTION THAN A RUUD ALL COPPER INSTALLATION
Call your local Natural Gas or L.P. Gas Company now

business machines including typewriters, calculators, adding machines, mimeograph and other equipment.

The functionally attractive facade of the multi-winged building consists of precast concrete coping along the top edge with 1/4" resinous cement coating area below. The main and lower 3/4 of the structure is of brick facing relieved by aluminum window sections. The shop area has metal roll-up doors with access to a work yard which is all hard-topped.

The interior laboratory and shop areas, as have been described, are furnished with the most modern equipment completely functional for each section type and are color keyed for comfortable as well as attractive appearance.

The finished result of this Center has afforded the City of Norfolk one of the most modern and up-to-date facilities of this type in Virginia.



PRACTICAL NURSING LAB



HOMEMAKING ↑ MASONRY ↓ LABS



SUBCONTRACTORS & SUPPLIERS
(Norfolk firms unless otherwise noted)

Robert R. Marquis, Inc., Portsmouth, general contractor, concrete, carpentry, paneling; Snow, Jr. & King, Inc., masonry; Tidewater Steel Co., Inc., structural & miscellaneous steel; Republic Steel Corp., steel roof deck & joist, lockers & shelving; Fowler Roofing & Sheet Metal, roofing; Southern Block & Pipe Corp., stone work and Walker & Laberge Co., Inc., glazing.

Also, E. Caligari & Son, Inc., painting; O'Ferrall, Inc., acoustical; John Brothers, plaster; Clarence E. Swain Tile Co., ceramic & resilient tile; Ajax Co., Inc., terrazzo; Campostella Builders & Supply, millwork; Dorey Electric Co., electrical work; Leo T. Zoby, Jr., plumbing and Norfolk Air Conditioning, air conditioning & heating.

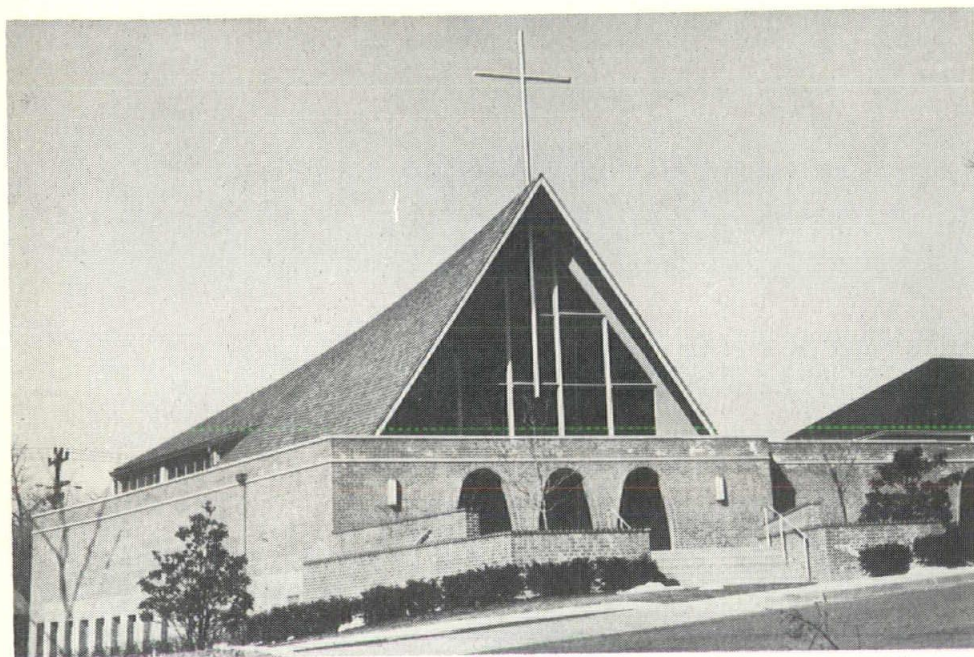
Others were: Korok, Alexandria, chalk, tack, blackboard & display case; Southern Metal Products, Inc., overhead doors; Atlantic Equipment Corp., kitchen equipment; Door Engineering Corp., metal doors & frames; Seaboard Paint & Supply Co., Inc., hardware; Brownson Equipment Co., Richmond, folding partitions & doors; Birsch Construction Corp., paving; Hall-Hodges Co., Inc., reinforcing steel; Aldo Construction Corp., Portsmouth, O. S. concrete & storm drain; Brownson Equipment Co., Inc., Richmond, draperies & cubical track. Landscaping and site work by Higginson-Buchanan and termite protection by Western Chemical Co.

Holy Trinity Lutheran Church

FALLS CHURCH

MILTON L. GRIGG
FAIA
Architect

BRANDT & MORSE
Mechanical
Engineers



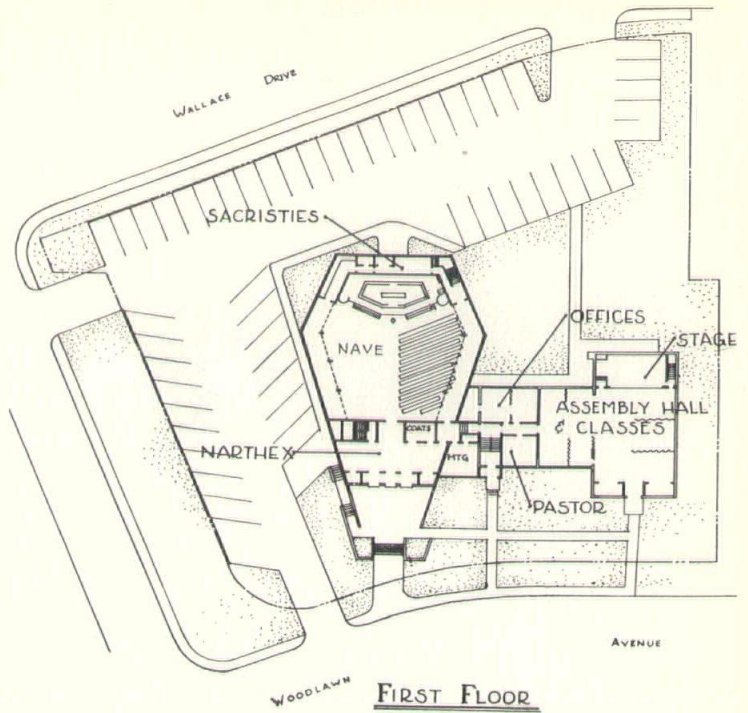
THE FIRST UNIT of this religious complex was built some twenty years ago. The original master plan envisioned a traditional Georgian-style mass for the ultimate plant. Fortunately, in light of after events, economy forced the suppression of identifying period detail so that this unit could be congenially integrated into the more contemporary style employed in the ultimate accomplishment of the master plan.

Limited site and the encroachments of legally required parking spaces dictated much of the plan arrangement of the terminal unit. The relatively high noise level of the neighborhood together with internal acoustical and liturgical criteria influenced the mass of the building. Thus, bold exterior walls and minimum window penetrations feature the design.

The worship room is in the shape of a regular hexagon, this shape being responsive to the requirement for congregational seating concentric about the focus of the worship service. This plan arrangement combined with the laminated timber arch construction to produce a pleasant acoustical environment. The decorative focus of the worship room is to be found in the clerestory stained glass windows. These windows were created through the employment of a new and revolutionary casting technique in which heat-absorbing sheet glass was employed as a base for chipped glass mosaic set in a transparent epoxy matrix. Subtle gradations of color are achieved by



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 Contractor



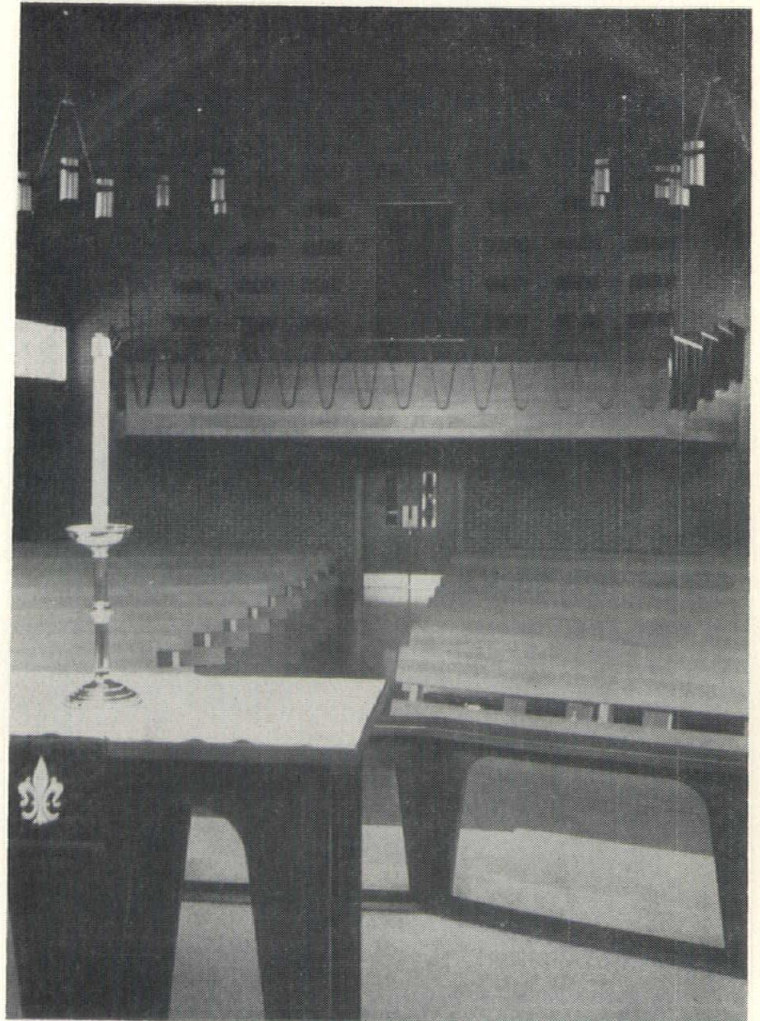
superimposing successive laminations of the colored glass.

The choir is placed as part of the congregation in a gallery suspended within the main church room, the pipe organ being conspicuously located behind pierced brick grilles in the rear of the choir gallery. The iconography, furnishings and decorations were integral in the architect's basic design; as a result there is unique integrity and coordination of the final results.

SUBCONTRACTORS & SUPPLIERS

E. H. Glover, Inc., Bailey's Crossroads, general contractor; Adams Fabricated Steel Corp., Washington, D. C., steel; Perrin & Martin, Inc., Arlington, roofing; Timber Structures, Inc., Hyattsville, Md., structural wood; Arlington Decorators, Arlington, painting and Virginia Millwork Corp., Arlington, millwork.

Also, Bilt-Rite Steel Buck Co., Brooklyn, N. Y., steel doors & bucks; Fred S. Gichner Iron Works, Inc., Washington, D. C., handrails; Capital Lighting & Supply, Inc., Alexandria, lighting fixtures; Babb Brothers, Alexandria, plumbing; Refrigeration Service Co., Alexandria, air conditioning, heating, ventilating and Lester's Hardware, Springfield, hardware. Steel windows by Republic Steel Co.



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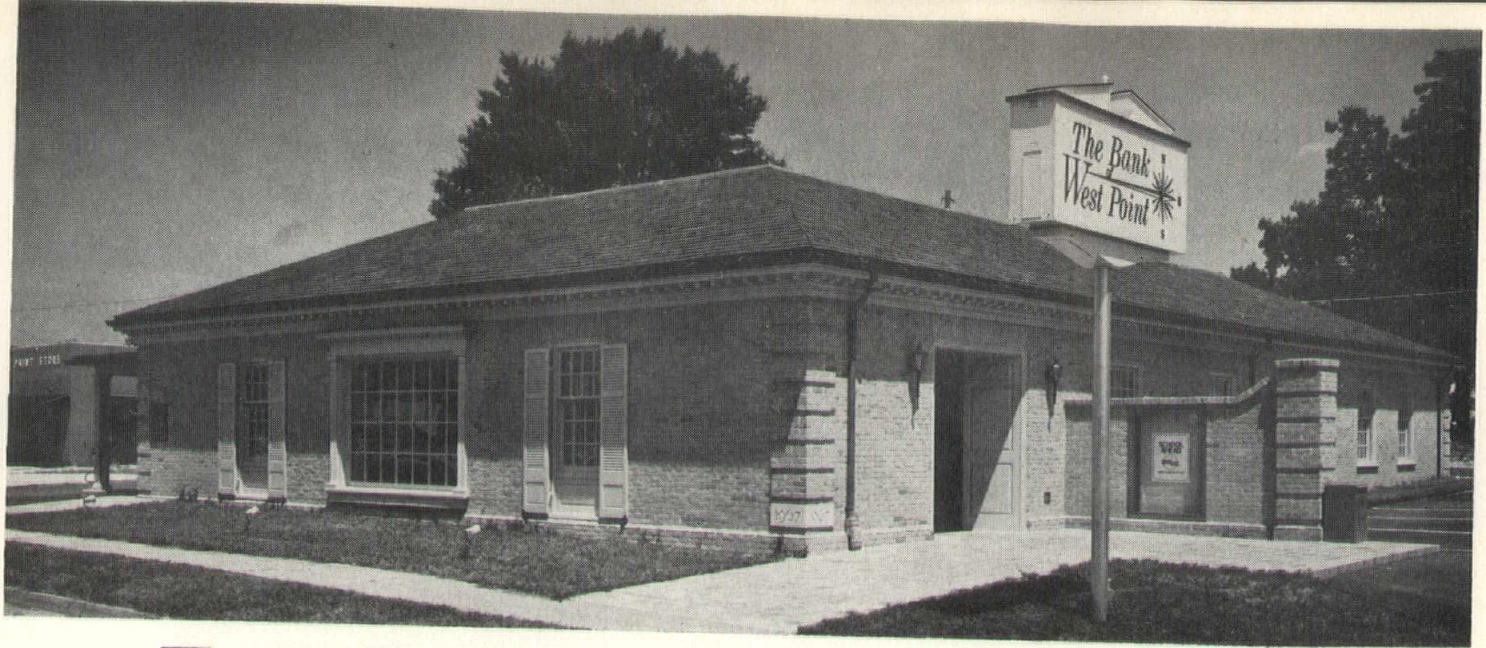


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THE BANK OF WEST POINT

BUDINA & FREEMAN
Architects

EMMETT L. SIMMONS & ASSOCIATES
Mechanical Engineers

BLACKBURN, BECKWITH & BLAUVELT
Structural Engineers

FRANK B. McALLISTER, INC.
General Contractor

(Photos by James M. McElroy)

THE BANK OF WEST POINT was organized in 1967. The Board of Directors wanted its new home to be pleasant and inviting and they decided that use of traditional styling and detailing would give them this atmosphere.

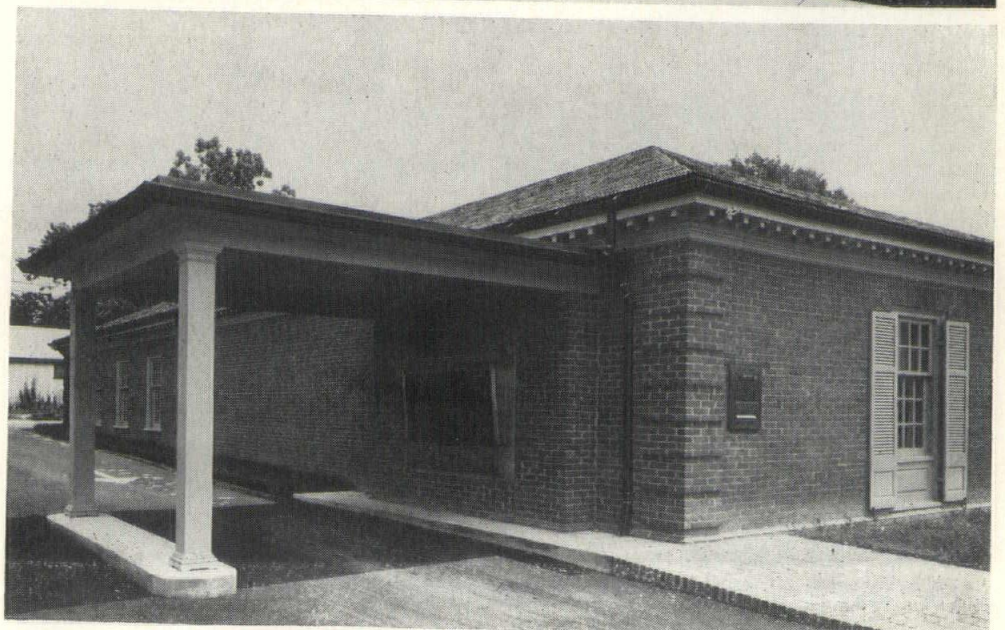
The building is situated on a corner lot with the parking area located on the side. This gives easy access to the parking area from the side street and the longest lane to the drive-in tellers. The public entrance to the Bank is from the parking area just around the corner from the Main Street side. The entrance is somewhat protected from the parking area by a brick wing wall into which a lighted aluminum display frame has been recessed.

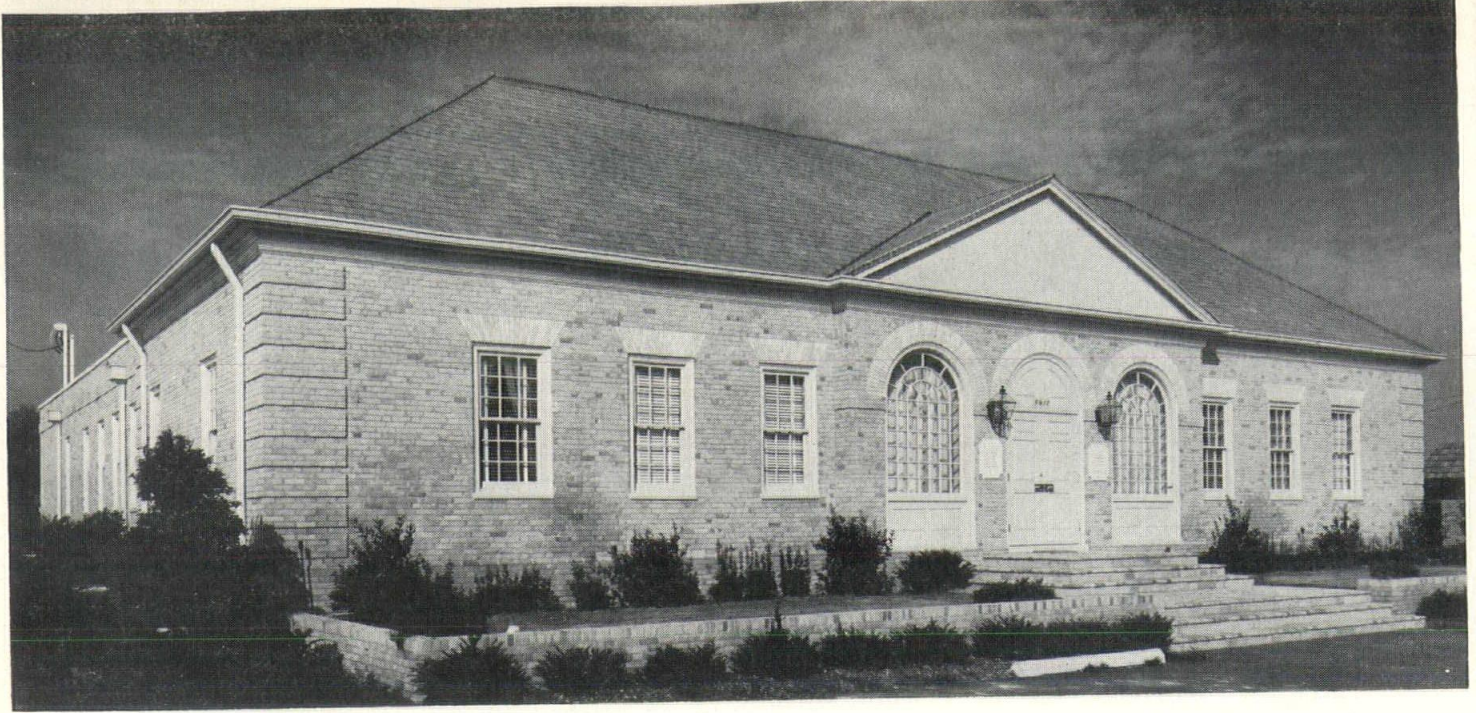
A warm colored wood mould brick was selected for the outside walls. The brick was laid in a tinted mortar using the grapevine joint tooling. All the windows, cornice and doorways are wood, painted dark beige. The roof is Buckingham-Virginia slate.

The interior also has traditional detailing such as six panel Colonial doors with moulded wood trim and two member wood chair rails.

The counter work by American

(Continued on page 91)





RICHMOND LAW OFFICES

CHARLES SHIFLETT—Architect
 EMMETT L. SIMMONS—Mechanical Consultant
 WILLIAM J. BLANTON—Structural Consultant
 DAVIS & SPIERS—General Contractors

SUBCONTRACTORS & SUPPLIERS (Richmond firms unless otherwise noted)

Davis & Spiers, general contractor; P. E. Eubank, Inc., concrete; C. A. Guard, Varina, masonry; S & W Steel, steel, steel roof deck; Joe M. DeShazo Roofing Co., roofing; Economy Cast Stone, stone work; Crystal Window Cleaning Co., windows.

Also Frick, Vass & Street, painting; P & G Contractors, plastic wall finish; E. S. Chappell & Son, weatherstripping; James G. Rose, insulation; Martin Tile & Marble, tile (ceramic); Manson & Utley, wood flooring; H. Beckstoffer's Sons, millwork; Howard P. Foley Co., electrical work; Catlett-Johnson Corp., plumbing, heating, ventilating; J. P. Dillard, blacktop paving.

(Photos by James M. McElroy)



THE LAW OFFICES of Minor, Thompson, Savage, White and Smithers are now in their new building located in the 5900 block of West Broad Street in Richmond. The law firm occupies the entire building.

Twelve private offices are provided for firm members and their associates. Separate areas are provided for secretaries adjacent to the private offices. A large library-conference room is located in the central portion of the building. Also included is a snack bar, a current file storage area on the main floor, record storage in the attic and two reception areas, since off street parking is provided at the front and rear of the building.

The Law Firm of Harry L. Thompson and James M. Minor was formed in January of 1956. These two partners practiced together in the Mutual Building for several years. During the course of the years Julian E. Savage, William S. Smithers, Jr., Joseph B. Benedetti, Robert Smart and Gerald Press were admitted as partners. Other lawyers working with the firm are William C. Wood, Leslie N. Saunders Jr., and William R. Marshall, Jr.

Architect for the building was Charles Shiflett.

General Contractor was Davis & Spiers.



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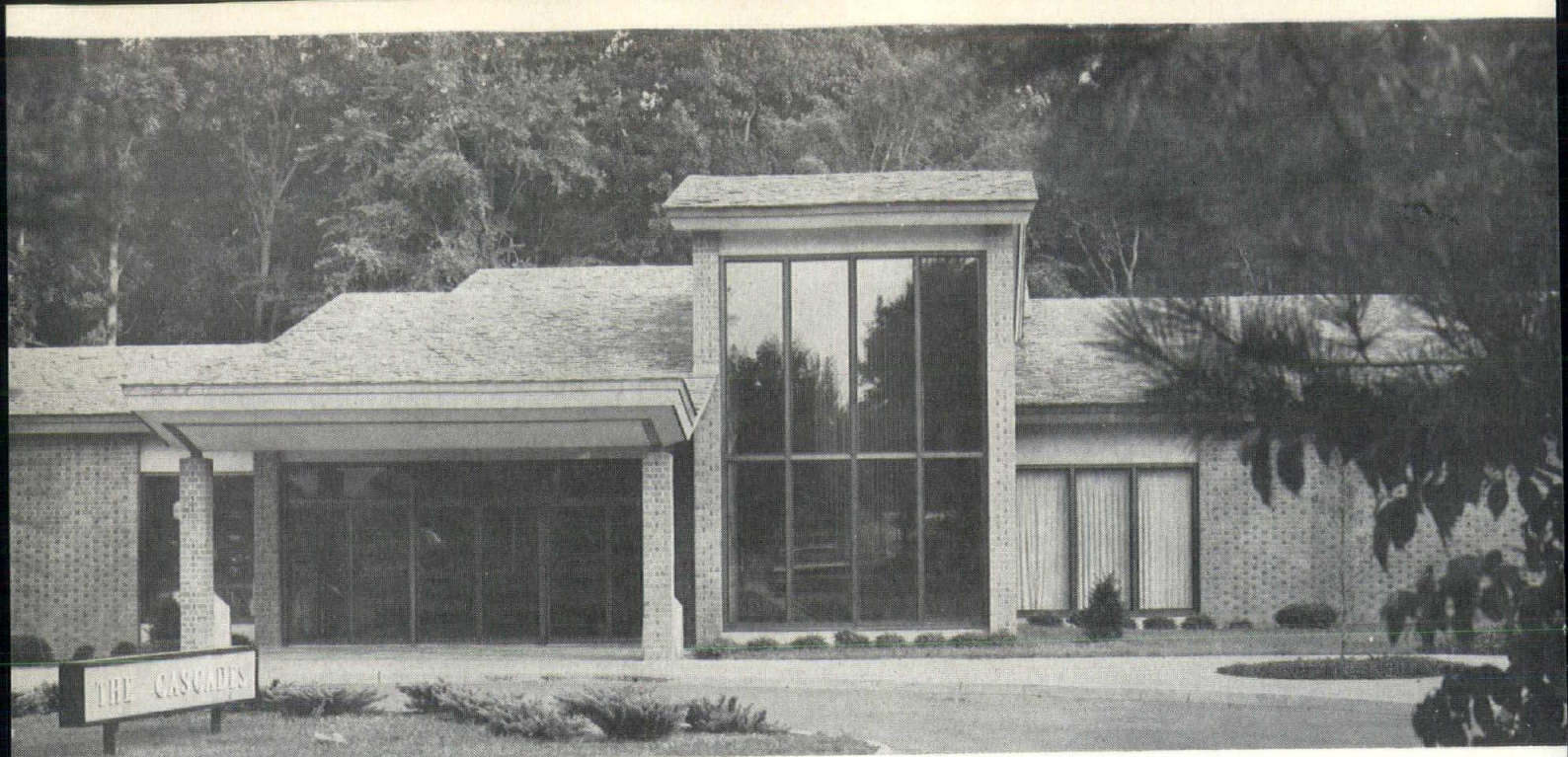
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THE CASCADES RESTAURANT-MEETING CENTER AT COLONIAL WILLIAMSBURG

DAVID WARREN HARDWICKE & PARTNERS—Architects

WILLIAM J. BLANTON
Structural Engineer

HANKINS, ANDERSON & MONCRIEF
Mechanical Engineers

GERALD B. EWING
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A RELATIVELY small, heavily wooded area adjacent to the Motor House in Williamsburg is the setting for the newest major tourist accommodation of Colonial Williamsburg.

The Cascades Restaurant-Meeting Center, like its companion facility, the 96-room Terrace Wing, has been tailored to meet the needs of conference and seminar groups, traveling families and visiting school groups. The 170 seat "L" shaped restaurant features a mood of "casual elegance" affording a distinct, new dining experience. When weather permits, outdoor dining is featured on two roof-deck terraces and on the balcony overlooking the wooded ravine and cascading ponds, set in the hillside.

The wooded nature of the site was retained to the greatest extent possible. Nearby brick and redwood Motor House buildings imposed limitations as to scale and choice of exterior materials. The apparent size of the

Photos
By
Taylor Lewis



building was diminished by dropping the lower or convention level into the the ground and opening it onto a grade level terrace at the rear, and by breaking the exterior mass into smaller units, creating an interesting interplay of space on the interior. A large open stair connects the two levels, thus avoiding the "basement feeling" associated with many similar spaces.

The Cascades derives its name from its principal landscape feature, a series of cascading ponds set in the undisturbed woods and employing the waste water from the building's air conditioning system. This theme is repeated in the unusual 15 foot chandelier in the main stair hall. Individually suspended aluminum tubes and lucite disks create a "cascading" light effect as it reflects light at the slightest air movement.

Exterior walls are of brick and block cavity wall construction; suspended floors are of precast, prestressed concrete. Roof framing is of steel with nailable concrete plank deck; roofing of concrete tiles. Fascias, eaves, balcony rails, and duck boards of redwood.

Interior wall finishes on first floor are brick and weathered redwood. Textured fabric over plywood is used on lower level walls for mounting displays. Floor finishes are blue stone, carpet and quarry tile. Ceilings are acoustical plaster and tile except in upper level dining rooms where panels of evenly spaced, natural finish hemlock strips provide strong architectural enrichment.

(Continued on page 93)



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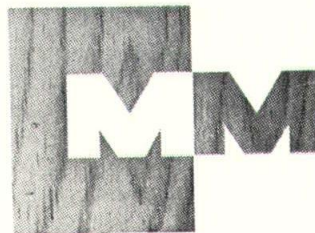
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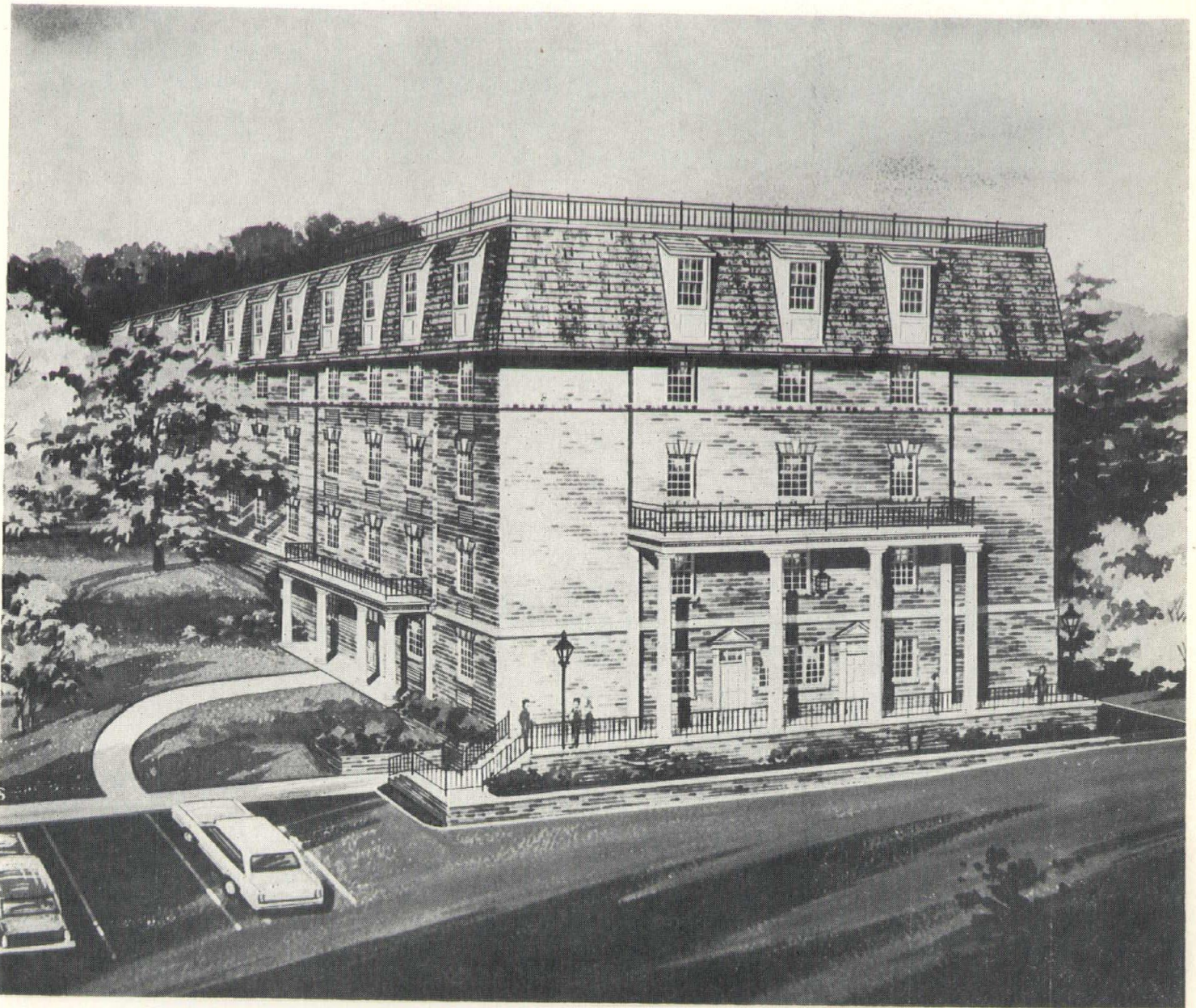
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STRATFORD COLLEGE DORMITORY

DANVILLE



Architect: J. COATES CARTER & SON, AIA

Engineers:

Structural—SHUMATE, WILLIAMS, NORFLEET & EDDY
Mechanical & Electrical—SOWERS, RODES & WHITESCARVER

CONSTRUCTION on the new five-storied, 152 student dormitory at Stratford College will be started this month with completion due in September 1969.

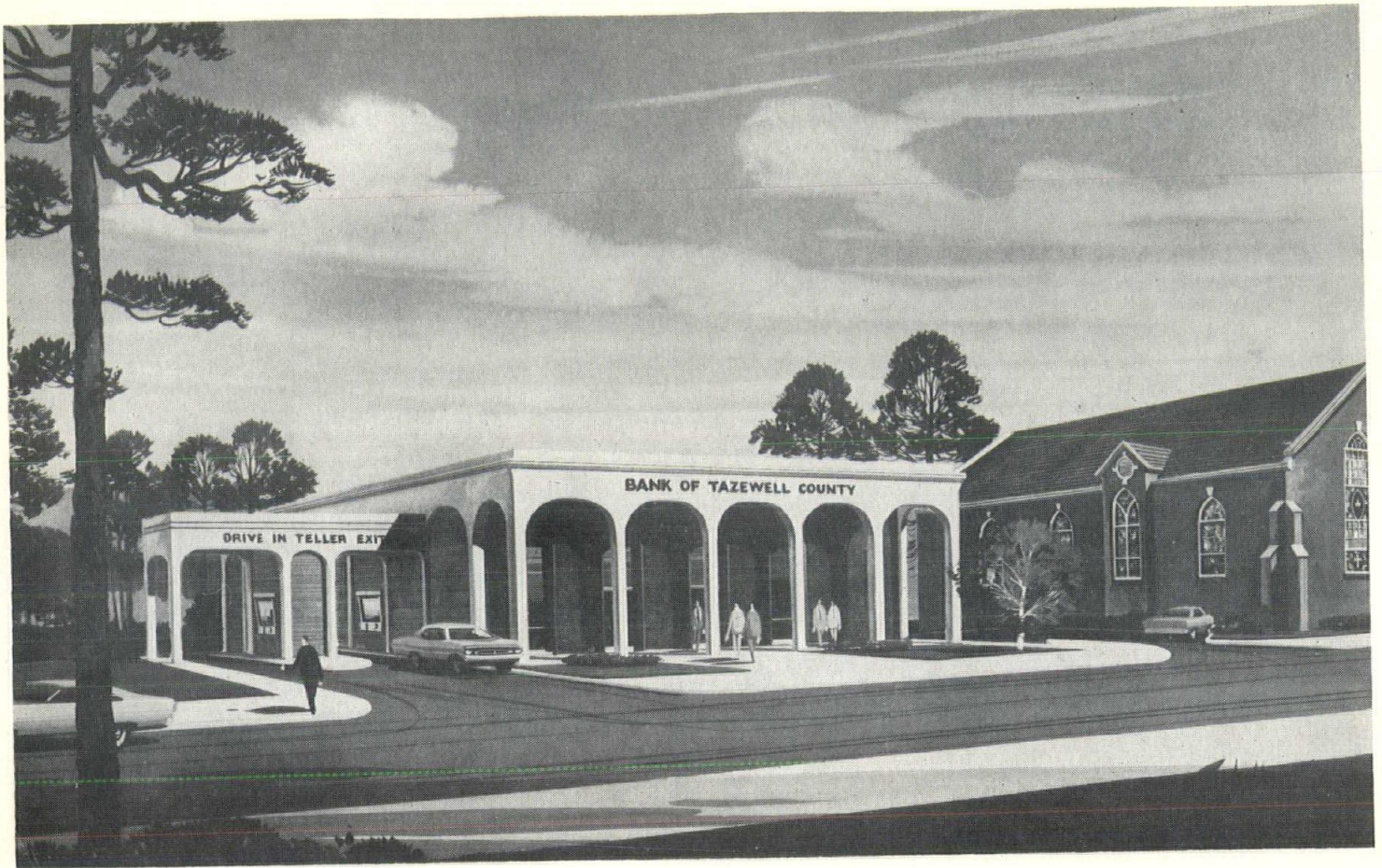
The top four floors will have 76 double suites with private bathrooms for every two adjoining bedrooms.

The ground floor houses the date lounges, recreation and snack rooms, laundry, trunk storage, mechanical room and housekeeper's quarters.

The use of electric heating and cooling units in each room combines flexibility of individual climate control with economy.

Other interesting features include a five-story passenger elevator, facilities for individual student hook-up to cable TV and private telephone, roof sun deck with shower and student lounge with kitchenette on each floor.

SOUTHWEST VIRGINIA BANK BUILDING



ARCHITECTS:

Wells, Meagher & McManama

ENGINEERING CONSULTANTS:

Sowers, Rodes & Whitescarver

BANK FURNITURE & FIXTURES BY:

American Furniture & Fixture Company

THE NEW BUILDING for the Bank of Tazewell County will be erected on the two pieces of property just west of the present bank building. The buildings on these properties have recently been razed.

The new building will have a first floor and lower floor, and will therefore have a one-story front on Main Street and a two-story front on Pine Street at the rear, due to the slope of the land.

The building will be of "Mo-Sai" arches and dark brick. The wall inside

the portico will be "Granux." The walls will have lightweight block back-up. Interior will be vinyl covered plaster, steel joists and terrazzo floor with certain carpeted areas.

The first floor will have seven paying and receiving tellers plus two loan tellers. Two drive-in windows are planned. Also on the first floor, besides the security vault, will be an open office area plus five private offices.

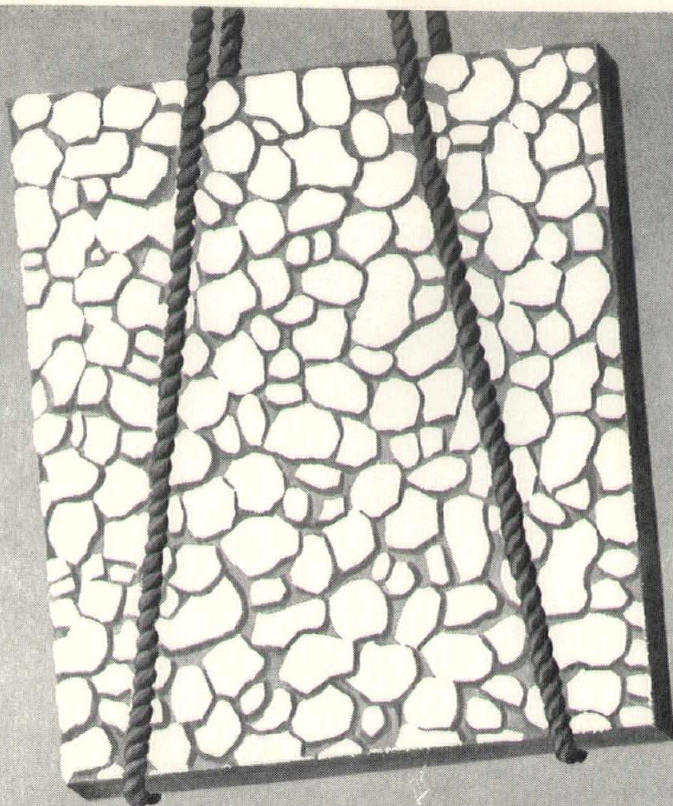
On the lower floor will be the Loan Department and the Board Room as

well as bookkeeping, bookkeeping office, record vault, rest rooms and employee lounge.

The present bank building will be razed upon completion of the new building and that area will become customer parking.

Architects for this project are Wells, Meagher & McManama. Sowers, Rodes & Whitescarver are consulting engineers for heating, electrical and plumbing. Bank furniture and fixtures are by American Furniture & Fixture Company, Richmond.

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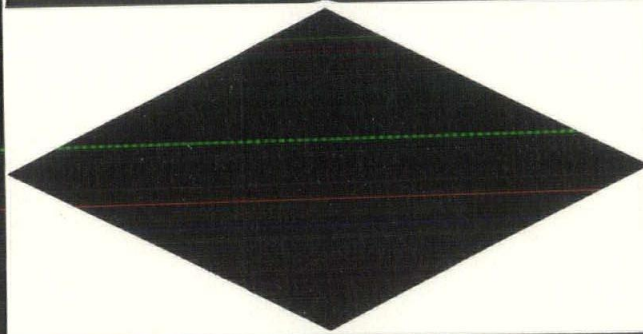
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GMAC-MIC OFFICE BUILDING—RICHMOND



(Photo by James M. McElroy)

EDWARD F. SINNOTT & SON, AIA
Architects

ROBERT H. DEADERICK
Structural Engineer

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General Contractors

IN RICHMOND'S ever developing West End, a new business address has emerged, 1708 Commonwealth Avenue.

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Flexibility within the structure was achieved with the use of a handsome

to tell the Virginia Story

yet completely movable partition assembly. Floor and ceiling systems, within the two suites, are uninterrupted and well integrated with the partition assembly. All doors are full height and are stained. Finishes and colors of all furnishings were coordinated with the tenants. Black, white and gray are the prime interior colors, which serve as a background for the subtle but effective furnishings.

The heating and air conditioning system consists of five separate heat pumps, giving each section of the building separate climate control. Ceiling diffusers are inconspicuous and

are installed within the ceiling grid pattern.

The suspended acoustical grid utilizes an exposed tee system, painted black. The two foot square fissured acoustical tile is kerfed and gives a third dimension to the ceiling.

Beige-graybrick used in conjunction with putty-colored stucco form the mass of the facility. Prominent piers, framing narrow floor to ceiling windows, punctuate the perimeter of the building. Bronze anodized aluminum sections frame the bronze tinted glass in all fenestration.

(Continued on page 93)

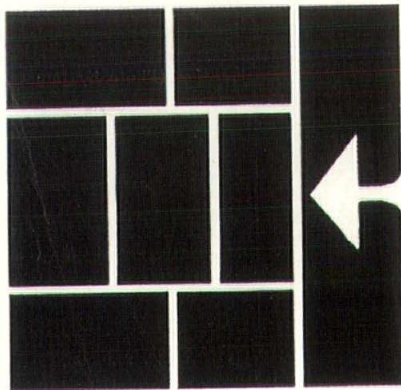
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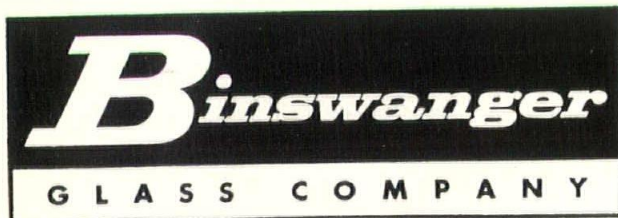
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BROOKS & WOMACK, AIA
Architects

JOSEPH NORMAN
Structural Engineer

**WHITEHEAD-LEACH
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(Photos by James M. McElroy)

THE CHAPEL AND CLASS ROOM addition to Westhill Baptist Church is the second step in a 3-stage development program. This second stage was completed in the spring of 1967, approximately 5 years after the first stage was completed.

Shown in the photograph is the entrance to the lower level containing the church office, pastors study, library, class rooms, assembly rooms and youth room. Located on the upper level and connecting to the existing educational building is the chapel, seating approximately 318, narthex, choir loft, baptistry and additional class rooms flanking each side of and separated from the chapel by folding doors so that overflow seating for the chapel can be provided.

The facility has a area of 11,110 sq. ft. at a cost of \$12.50, not including furnishings.

SUBCONTRACTORS & SUPPLIERS

(All Richmond firms unless otherwise noted)

Whitehead-Leach Construction Co., general contractor, carpentry; A. L. Hobbs, painting; C. B. Smith Co., acoustical & resilient tile; Miller Manufacturing Co., Inc., windows, paneling & millwork; Atlantic Electrical Supply Corp., lighting fixtures; Tate & Hill, Inc., electrical work; Joe P. Clark Plumbing & Heating, plumbing, air conditioning heating ventilating and Pleasants Hardware, hardware.



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GRACE LUTHERAN CHURCH

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BROOKS & WOMACK, AIA
Architects

WALTHALL CONSTRUCTION
COMPANY, INC.
General Contractors



GRACE LUTHERAN CHURCH, completed in the early spring of 1968, consists of the sanctuary on the upper floor with fellowship hall, class rooms, kitchen and toilets on the lower level. The sanctuary seats 275 at present and can be expanded to seat 350. Rear portion is temporarily partitioned off to provide a church office and pastors study above which is located the choir and organ loft. The interior of the sanctuary is exposed brick and stone with laminated wood bents rising to 30' above the floor. Exposed 4" thick wood decking laid across the bents completes the roof system.

The present structure is the first stage in a 3-stage master plan developed by the architects.

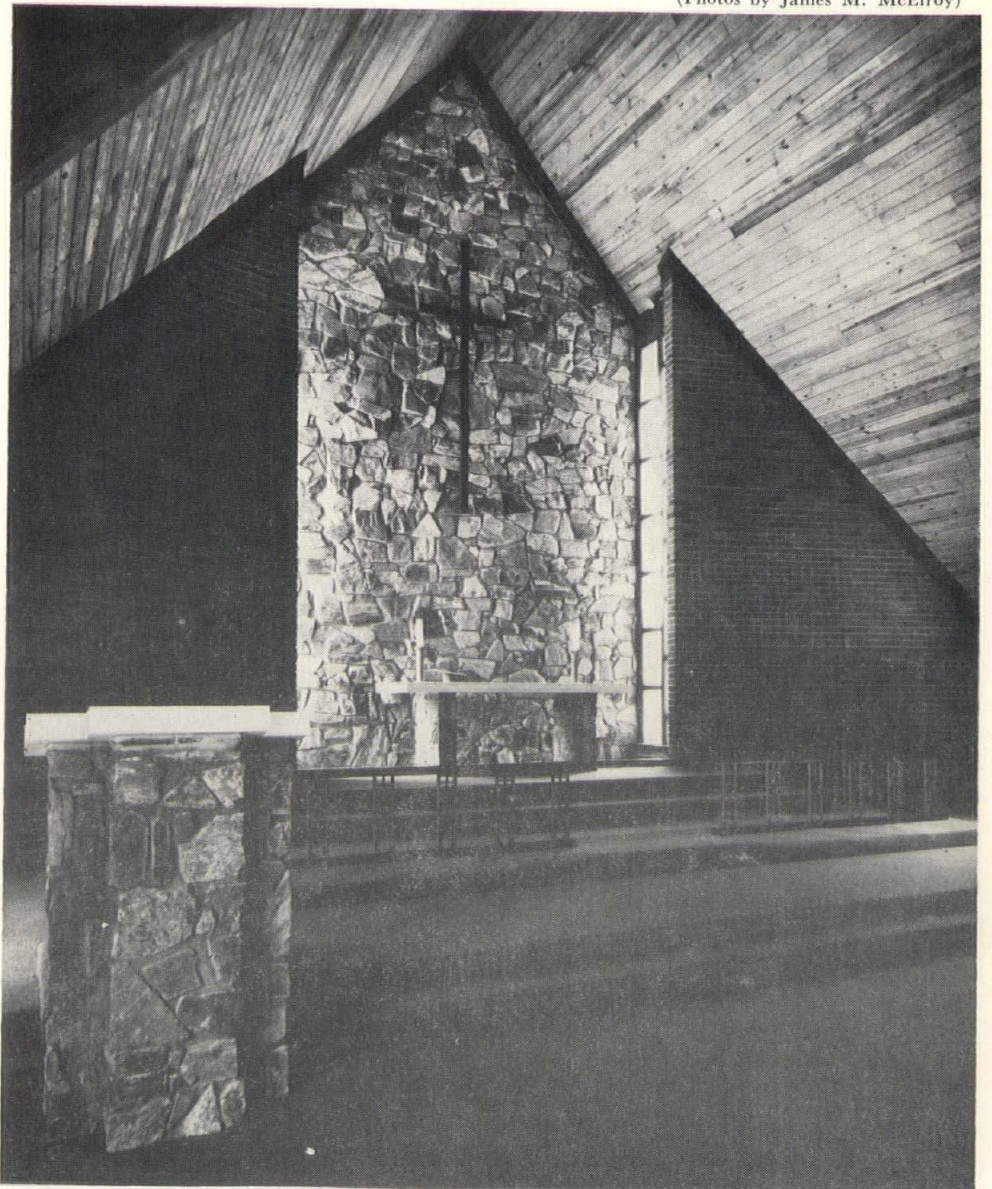
An area of 8,626 sq. ft. was provided at a cost of \$10.63, not including furnishings and carpeting by the owner.

Subcontractors & Suppliers

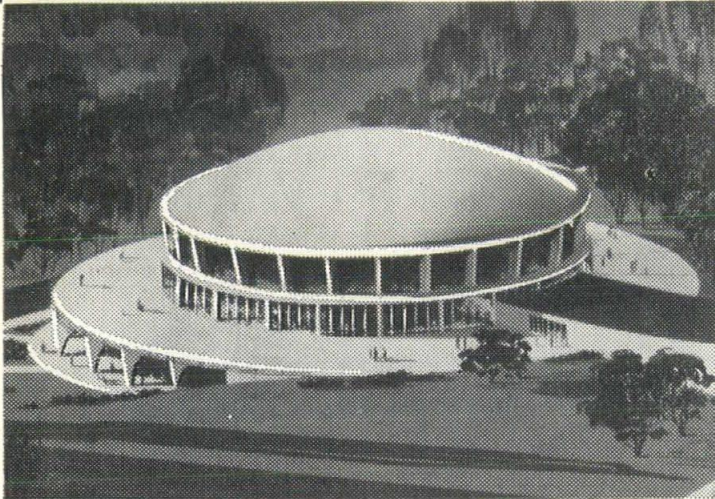
Richmond firms were: W. E. Duke & Sons, Inc., excavating; Concrete Structures, Inc., prestressed concrete; N. W. Martin & Bros., Inc., roofing; The Staley Co., Inc. (Brown & Grist) windows; Allied Glass Corp., glazing; Dave Ecker Co., painting; Consolidated Tile Co., acoustical; H. Beckstoffer's Sons, paneling & millwork; A. E. Allen, Inc., lighting fixtures; Pleasants Hardware, hardware and Economy Cast Stone Co., Mo-Sai Altar & Pulpit.

Others were: Walthall Construction, Inc., Colonial Heights, general contractor, carpentry; Wilson Construction Co., Petersburg, masonry; Andrews-Joyner Iron Works, Petersburg, steel; Unit Structures, Morrisville, N. C. & Warner Moore & Co., Inc., Norfolk, laminated bents; James Adkins, Inc., Hopewell, electrical work and Covington Plumbing & Heating Co., plumbing, air conditioning (future), heating and ventilating.

(Photos by James M. McElroy)



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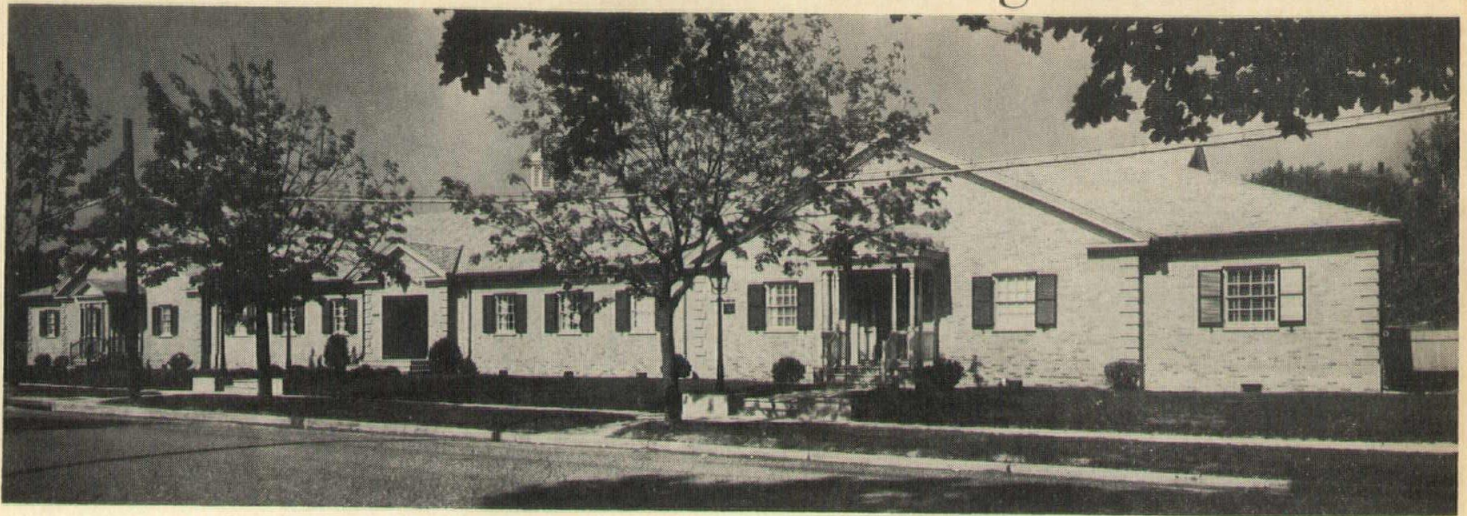


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NORFOLK, VA. 23503

Hamilton Street Medical Building—Richmond



ARCHITECTS: Edward F. Sinnott & Son, AIA

ENGINEERS:

Structural—ROBERT H. DEADERICK

Mechanical & Electrical—BRANDT & MORSE

General Contractors: KJELLSTROM & LEE, INC.

SITUATED IN A predominantly residential section in the near West End of Richmond and on a street rapidly becoming a "known" medical address is Hamilton Street Medical Building.

To more harmoniously integrate with the neighborhood, a building of proportions consistent with the surrounding homes was designed.

The Owner-Tenants, Hamilton Street Medical Building Associates, for the most part, were previously housed in older buildings not designed as medical suites. The clients, having contended for years with poorly adapted spaces, inadequate mechanical and electrical systems were properly conscious of space planning for their new quarters. Separate heating, ventilating and air conditioning is provided for each suite. Strict privacy for each space within each doctor's unit is guaranteed by sound-conditioned partitions between all rooms with the added feature of separate heating and air conditioning returns serving each space.

To further insure sound privacy, double ceiling construction was installed. Partitions separating spaces were sealed tight to the topmost gypsum board ceiling. A finish ceiling of acoustical tile, with concealed suspension, was then installed. Air diffusing light troffers help to keep ceilings in the relatively small spaces uncluttered and afford excellent air distribution.

(Continued on page 95)

to tell the Virginia Story

Subcontractors & Suppliers (Richmond firms unless otherwise noted)

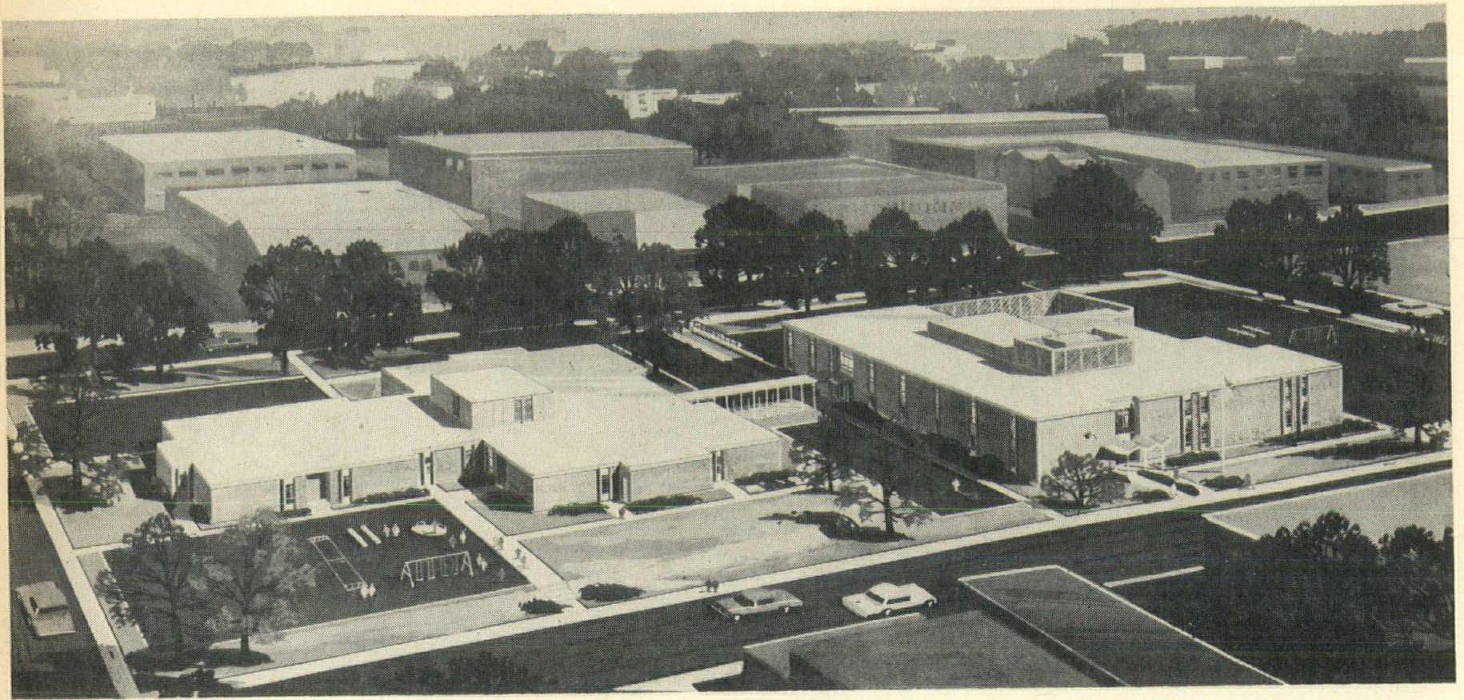
Kjellstrom & Lee, Inc., general contractor, foundations, carpentry, paneling, waterproofing; P. E. Eubank & Co., excavating; Lee Hy Paving Corp., bituminous paving; Southern Materials, Inc., concrete; Coates & Coleman, Ashland, masonry; Bethlehem Steel Corp., steel & wire mesh; Cross Steel & Iron Co., Ashland, steel & miscellaneous iron; N. W. Martin & Bros., Inc., roofing; Richmond Lumber & Building Supply, windows, millwork; Miller Manufacturing Co., Inc., structural wood trusses.

Also T. F. Payne, painting & wall coverings; John H. Hampshire, Inc., structural (glazed) tile, tile (ceramic); E. S. Chappell & Son, Inc., weatherstripping; Lakeside Insulation Co., insulation; O'Ferrall, Inc., acoustical, tile (resilient); A. Bertozzi, plaster; Central Electrical Service Corp., lighting fixtures, electrical work; Catlett-Johnson Corp., plumbing fixtures, plumbing, air conditioning, heating, ventilating; Pleasants Hardware, hardware. "Bar-Ray" Xray protective materials by Gilman & Green, representative of Amray Corp.

(Photos by James M. McElroy)



Chimborazo Elementary School—Richmond



ARCHITECT: Ben R. Johns, Jr., AIA

ENGINEERS: FRAIOLI-BLUM-YESSELMAN—Structural
WILLIAM A. BROWN—Mechanical & Electrical

General Contractor: R. L. BULIFANT & COMPANY, INC.

Subcontractors & Suppliers

(All Richmond firms unless otherwise noted)

R. L. Bulifant & Co., Inc., general contractor; Municipal Paving Co., Inc., excavating; Massey Concrete Corp., concrete; Scruggs and Thomas, masonry; Cruickshanks Iron Works Co., steel & steel roof deck; Marsteller Corp., Roanoke, roof deck; N. W. Martin & Brothers, Inc., roofing, waterproofing, insulation; Economy Cast Stone Co., stone work; The Staley Co., Inc., windows.

Also, Sash, Door & Glass Corp., glazing; Shaw Paint & Wall Paper Co., Inc., Hampton, painting; Manson & U'ley, Inc., weatherstripping; W. Morton Northern & Co., Inc., acoustical & resilient tile; John H. Hampshire, Inc., ceramic tile & terrazzo; American Floor Constructors, Greenville, S. C., Granwood flooring and Miller Manufacturing Co., Inc., millwork.

Others were: The Howard P. Foley Co., lighting fixtures & electrical work; I. R. Guild & Sons, Mechanicsville, air conditioning, heating & ventilating; Pleasants Hardware, hardware; Southside Manufacturing Co., Danville, library shelving and Modern School Equipment, Inc., chalkboards & tackboards.

THE RICHMOND SCHOOL BOARD is facing expanding enrollment problems along with every school system in the nation. One part of its solution lies in the new Chimborazo Elementary School located in Richmond's East End at 29th and Marshall Streets, a completely developed neighborhood where land values are considerably higher than in a lesser developed area. The educational facility was designed on a 4.5 acre site to accommodate 990 students enrolled in grades one through six.

Functional flexibility dictated the design plan consisting of a two building complex connected by a covered walkway. The single story structure is composed of three groups of rooms which will function as first, second, and third grade units. Each unit is self contained with classrooms, toilets, direct access to the outside, and a large central space which can be broken by movable partitions. Upper grades are housed in the two-story building along with the administrative offices, health service areas, library, multi-

purpose room, lunchroom and kitchen facilities.

Careful planning of the multipurpose room makes it quite simple for it to change from a community recreation area to a public assembly space. The raised platform on one side of the room is accompanied by dressing rooms, toilets and access to one of the main corridors. On the other side of the room, showers, lockers, and passage to the outside, provide for the demands of physical recreation.

The library area is located on the second floor. Portions of the central reading room can be partitioned off to allow groups of five to ten students to gather for music and remedial reading. The entire library is carpeted including workrooms, instruction areas, and the conference room. Immediately adjacent to the library is the roof activity area where a maximum of ninety students will be allowed to participate in controlled activities.

Brick and cast stone are used for the exterior building materials with

(Continued on page 95)



RICHMOND CHAPTER
OF
THE PRODUCERS COUNCIL

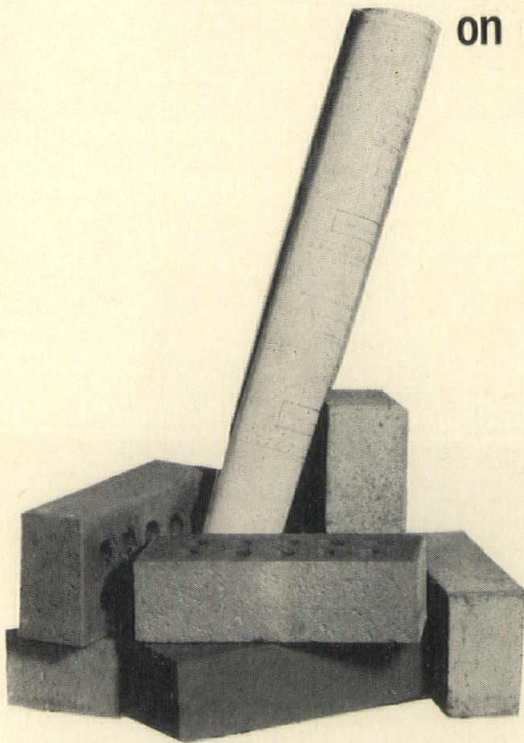
American Cyanamid Company	James G. Thayer	Kentile Floors Inc.	John J. Marsicano
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Armstrong Cork Co.	V. C. "Bert" Short	Lupton Manufacturing Company	Joseph L. Rosenbaum
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Day-Brite Lighting	Earl Dagenhart	PPG Industries, Inc.	William C. Cates
Executone Company of Richmond	S. R. Pickens	Rolscreen Company	Howard C. Smith
Formica Corporation	Philip Spraker	Ruberoid Company	Kenneth G. Barrie
Georgia-Pacific Plywood Corp.	H. L. Airington	The Stanley Works	George W. Tutwiler
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Inland-Ryerson Construction Prod. Co.	Edwin H. Artz, Jr.	U. S. Ceramic Tile Company	Herman V. Daffron, Jr.
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		Virginia Brick Association, Inc.	Gilbert A. Meland

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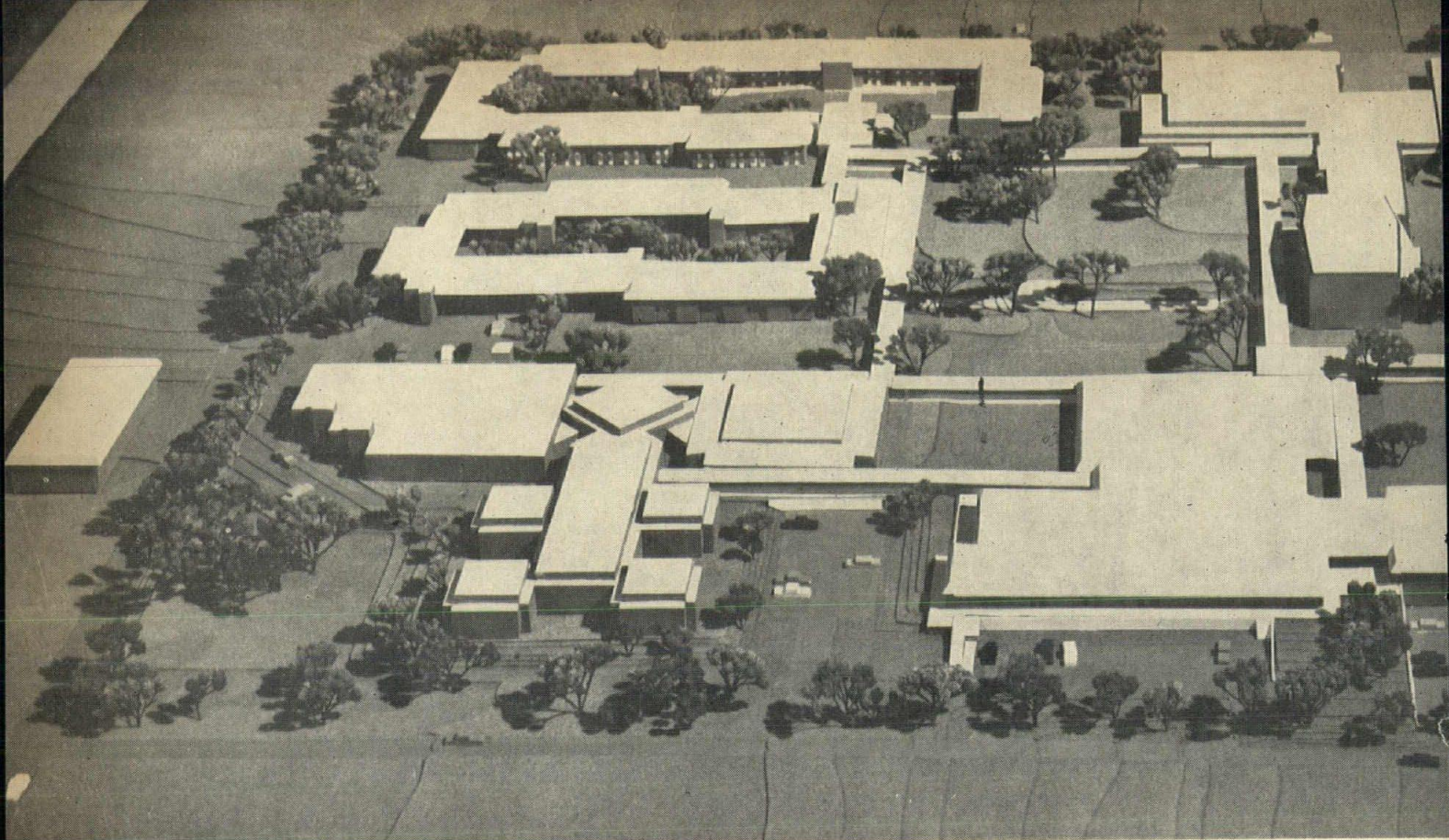
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In this model of the 1967 master plan, the Activities Center is shown at top, right.

WOODROW WILSON REHABILITATION CENTER

THE WOODROW WILSON Rehabilitation Center was established in 1947 as part of a State program to assist persons, with a wide range of disabilities, to develop their highest possible physical and mental potential and thus to become productive members of society. The Center is located in the Army Hospital, built in 1942 at Fishersville, as a temporary structure.

From the start, the aim was to develop a comprehensive center for resident students with disabilities, including physical, emotional, and mental handicaps. Here in a single facility, specialist services for the students include vocational evaluation and guidance, physical restoration, academic and remedial training, as well as education and training in occupational skills. The aim is to encourage self-help toward the return to the whole-man concept insofar as feasible. A planned comprehensive program of activities has been initiated and improved with experience.

The Student Activities Building is a first of its kind. No similar facility existed and, so, there were no precedents

to guide its design. Moreover, the aim of the design was to serve a pioneering rehabilitation concept. For this reason, the evolution of the design required considerable experimentation and evaluation in light of the concept that it would serve. Thus the architect faced unusual challenges that led to a deep and productive involvement with the Center's staff in conceptual planning and design. In the process, lessons were learned and experiences accumulated that may benefit other rehabilitation authorities that have an interest in developing a similar facility.

The Student Activities Building is, in a very real sense, an architectural expression of the basic rehabilitation concept, initiated at the Woodrow Wilson Rehabilitation Center. Accordingly, in order effectively to examine the problems in the design evolution or to appraise the success of the final design in operation, a basic understanding of the underlying concept is essential, and described herein.

The Student Activities Building is one component of the comprehensive Center which includes:

- Accommodation of students and food services
- Physical, psychological, and vocational evaluation to assist in assessing student residual abilities and potential.
- Guidance of the student toward maximum benefit from the Center program.
- Student health services and therapy to improve functional capability.
- Vocational training to equip the student for employment including remedy of educational deficiencies.
- *A Recreation program designed specifically to involve students in re-creative activities, to induce self-help, and to encourage wholesome growth and development of the whole person.*

The last of these services is the subject of this report.

It had become obvious, by 1959, that the temporary Army Hospital structure was inadequate for full development of the comprehensive rehabilitation program. It was concluded that the facilities of the Center should



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J. ALEXANDER

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General Contractor

N CENTER—ACTIVITIES BUILDING

be redeveloped in conformance with a long range, staged design and construction program of permanent buildings with progressive demolition of the temporary structures, without disruption of Center operations.

However, there were neither available funds nor a State organization authorized to make the necessary monies available to the Center for its redevelopment. At that time, the State Vocational Rehabilitation Board had not been established and the State Board of Education, under whose direction the Center operated, was not authorized by law to fund the kind of rehabilitation facilities that were needed. Accordingly, Major General Harold E. Watson, USAF, and Thomas Meloy, President of Melpar, Inc., took the initiative and established the Woodrow Wilson Rehabilitation Center Foundation to raise the necessary funds.

The purposes of the Corporation are: To engage in, contract, foster, finance and aid in scientific research, education and demonstration of the rehabilitation of the physically or mentally disabled; to aid, strengthen

and extend in every proper and useful manner the objectives, work, services and physical facilities of the Woodrow Wilson Rehabilitation Center; to develop, strengthen and utilize interest and knowledge between the Woodrow Wilson Rehabilitation Center and its friends, patrons and other rehabilitation agencies and organizations both in this country and throughout the world; to advance better public understanding and appreciation of the field of rehabilitation in modern society and assist in the development of rehabilitation services and facilities; to publish and disseminate such information as may serve the objectives of the foregoing."

The Master Plan for the Woodrow Wilson Rehabilitation Center includes:

- A. Activities Building
- B. Men's Dormitory
- C. Women's Dormitory
- D. Dining Hall and Kitchen
- E. Educational and Vocational Buildings
- F. Administration Building
- G. Medical Building
- H. Chapel

ACTIVITIES BUILDING RESEARCH GRANT OF EDUCATIONAL FACILITIES LABORATORY

In May 1963, the Educational Facilities Laboratory awarded a grant to the Woodrow Wilson Rehabilitation Center Foundation for performing the necessary research as a prelude to the design of an Activities Building. It was determined that the Activities Building must provide appropriate space and activities to encourage the most productive use of the student's leisure time and that the following facilities for cultural, recreational and entertainment activities should be provided:

- Lobby
- Dining area: Student, faculty
- Auditorium—theater
- Library
- Music Room
- Lounge
- Creative arts and crafts area
- Gymnasium and exercise room
- Swimming pool
- Handball courts
- Bowling alleys

(Please turn the page)



The Gymnasium is designed for a number of physical activities, including basketball, volley ball, shuffleboard, badminton, dodge ball, wrestling, weight lifting, dances, entertainment features that are too large for the Auditorium, and for spectator enjoyment of these physical activities.

The Auditorium is the southern building of the Student Activities complex and is adjacent to the Vocational Training School. The primary access from the exterior is from the Center's courtyard from the covered walkways. Activities Building access is via the central open corridor. Both primary access points lead to the Theatre Foyer which is carpeted and has plaster walls and acoustic plaster ceiling with recessed lighting.



- Rifle and archery range
- Game room (billiards, table tennis)
- Shuffleboard area

It was decided that each of these areas must be designed with an eye for special facilities for the handicapped, the best materials for its functions, and the spatial relationship of the area to all other areas, as well as the anticipated participation.

A next step was to group those activities that should be located together and to determine those activity groups that should be adjacent to each other and in relation to the entrance and lobby.

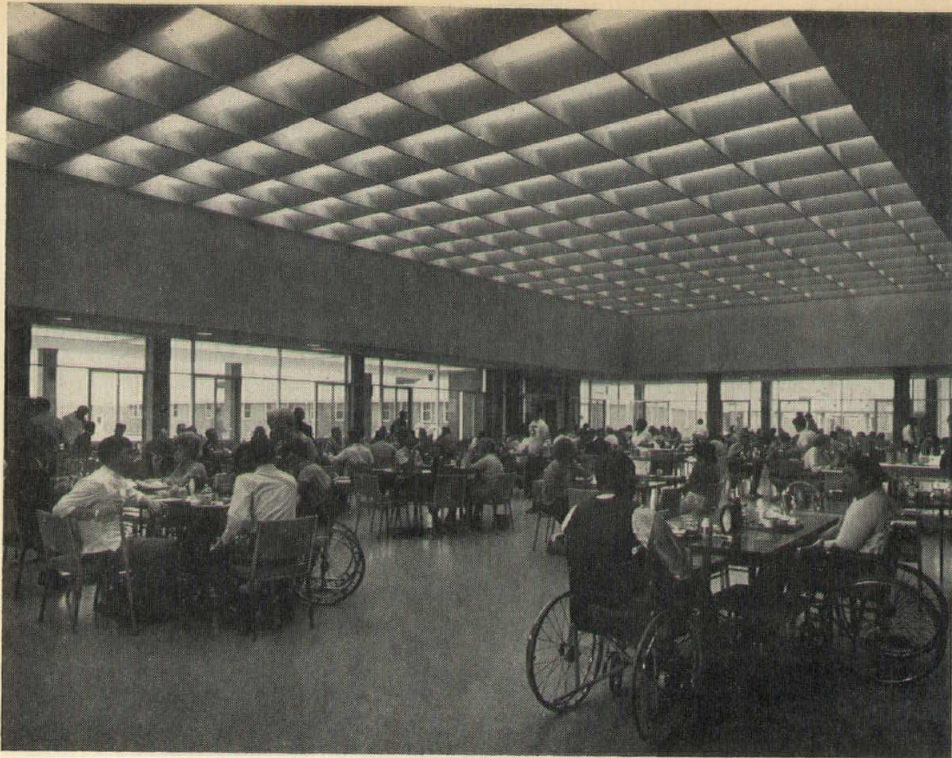
The members of the research team were well aware that the final design had substantially to be free of barriers that might tend to isolate certain activities or groups of students and, thus, work against the aim to bring all of the students together in an environment of creative activity. It was crucial that all areas of the facility be fully accessible to all students regardless of the nature of their disability. So, this problem of architectural barriers was a prime concern.

At the same time, it was recognized that few buildings are designed with due consideration for the whole profile of our population, especially for that large segment with some form of physical disability. It was equally obvious that the physically disabled, while at the Center, would need to gain experience that would help them to cope with the kinds of problems conventional architecture would likely pose for them. Accordingly, conventional equipment and architectural forms could not be abandoned entirely in the Activities Building.

The architectural challenge, to which the research team and the design architect were required to respond, was to translate the philosophy of creative recreation into functional requirements, and to create spatial concepts that would positively promote participation of students in all of the activities to the extent of their highest potential. And, then, to design, build, equip, and furnish the Activities Building as an instrument of both passive and active rehabilitation recreation where the student *and* the staff are motivated to perform effectively.

The Activities Building is in the northern sector of the Center site and is inside the perimeter road in the same location as it was shown in both the 1963 and 1967 Master plans. Access to the Activities Building is provided from the perimeter road for services, and by covered walkways

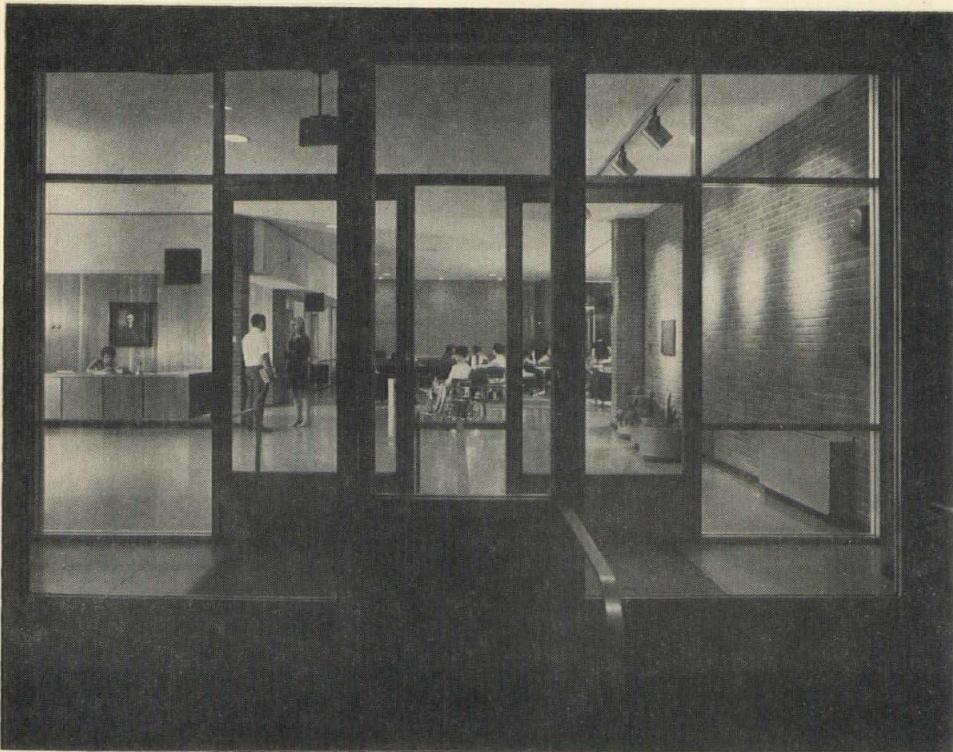
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The dining area seats 500 students with ample space between tables for wheelchair circulation. Service is from double cafeteria lines meeting at the central cashier position. Tray slide heights are at wheelchair levels with sufficient space in the lines for maneuvering.

Floors are of sheet vinyl. The east and west walls are principally windows with face brick columns, providing extensive views of the exterior permitting a relatively high intensity of natural light. The lower ceiling is of plaster, 10'-10" in height, with a central luminaire ceiling at 18' with variable high intensity lighting.

Entrance Lobby, has been designed not only for functional access but also as a physical introduction of the students and visitors to the Activities Building where there is an absence of corridors thus exposing them directly to the lounge and table games room, and open circulation to other activities.



to tell the Virginia Story

NOVEMBER 1968



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PAGE SIXTY-ONE



from all of the existing and future buildings of the Center. The walkways are heated to remove snow and ice. With the completion of each building phase, the Central Court of the Center will become enclosed, providing convenient, graded, and partially sheltered access from all points to the Activities Building by both wheelchair and ambulatory students and staff.

Subcontractors & Suppliers

Nielsen Construction Co., Inc., Harrisonburg, general contractor, foundations, concrete work, masonry work, carpentry, weatherstripping and wood flooring. Other Harrisonburg firms were: David A. Reed & Sons, Inc., excavating; Zirkle & Zirkle, painting & plastic wall finish and Electrical Contracting Corp., electrical work (Ariel Davis Mfg., lighting fixtures—Graybar, Prescolite, etc.).

From Staunton: Transit Mixed Concrete, concrete ready-mix; W. F. Hoy, insulation & plaster; Standard Tile Co., ceramic & resilient tile and Holsinger Lumber Co., millwork.

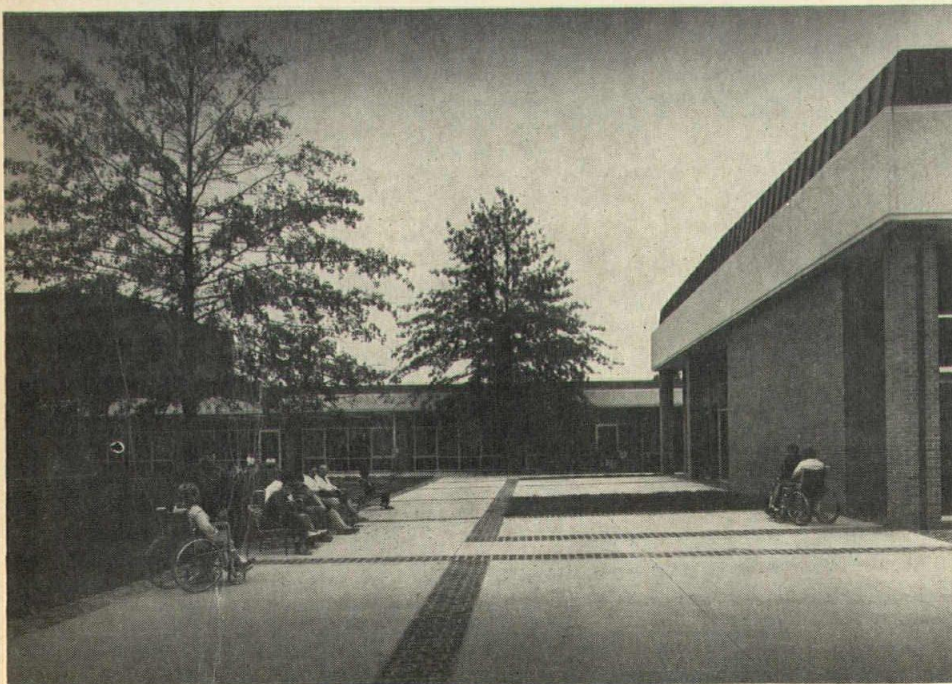
Richmond firms were: John H. Hampshire, Inc., roof deck—gypsum; U. S. Plywood Corp., paneling; Pleasants Hardware, hardware and J. H. Pence, theatre seating.

Others were: Old Virginia Brick Co., Salem, masonry; Montague-Betts Co., Inc., Lynchburg, steel and (County Fire-door Corp.) steel doors & bucks; Manson & Utley, Inc., Charlottesville, acoustical; J. H. Cothran Co., Altavista, plumbing (American Standard fixtures), air conditioning, heating & ventilating; Paddock Pool Construction Co., Arlington, swimming pool and Brunswick Corp., Philadelphia, Pa. bowling equipment.

And from Roanoke: Valley Roofing Corp., roofing; Pittsburgh Plate Glass Co., windows, window walls & glazing.

The Student Lounge above, is immediately adjacent to the Entrance Lobby. This is warm, carpeted, comfortably furnished and features a face brick fireplace with a raised hearth and copper hood. The interior design of the Lounge is planned to encourage congregate of activity and reading in a relaxed, informal environment.

Photo below is of the courtyards.



Top photo: Reception Aea, shows the open design concept. Because the traffic volume is high in this area, the receptionist, the office, the post office, the student union, the toilets, and telephones have been located here. The floor is vinyl with grey carpet in the lounge. The walls are face brick and window walls. Ceilings are acoustical tile with recessed lighting.



Center photo: Shows another portion of the Lounge Area.

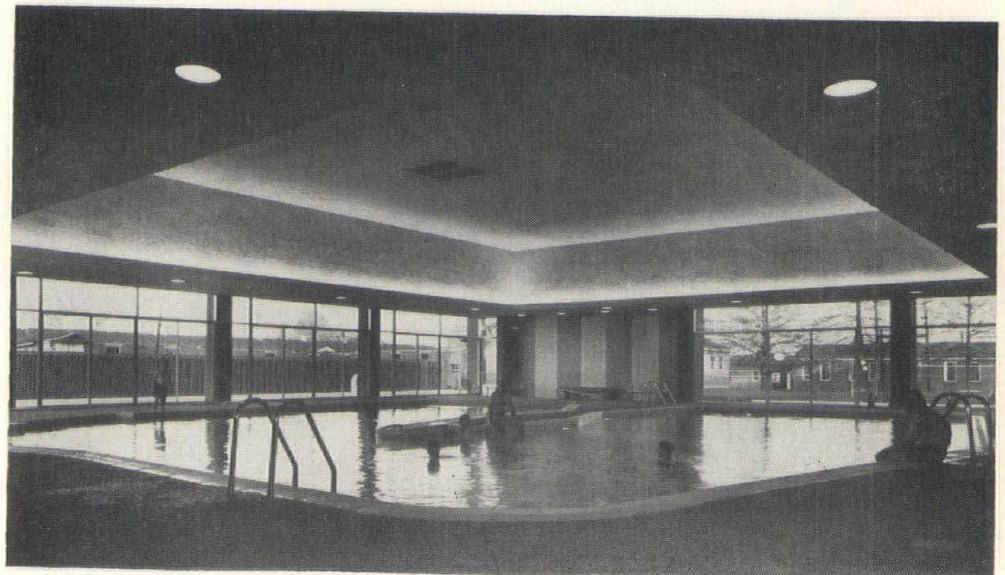
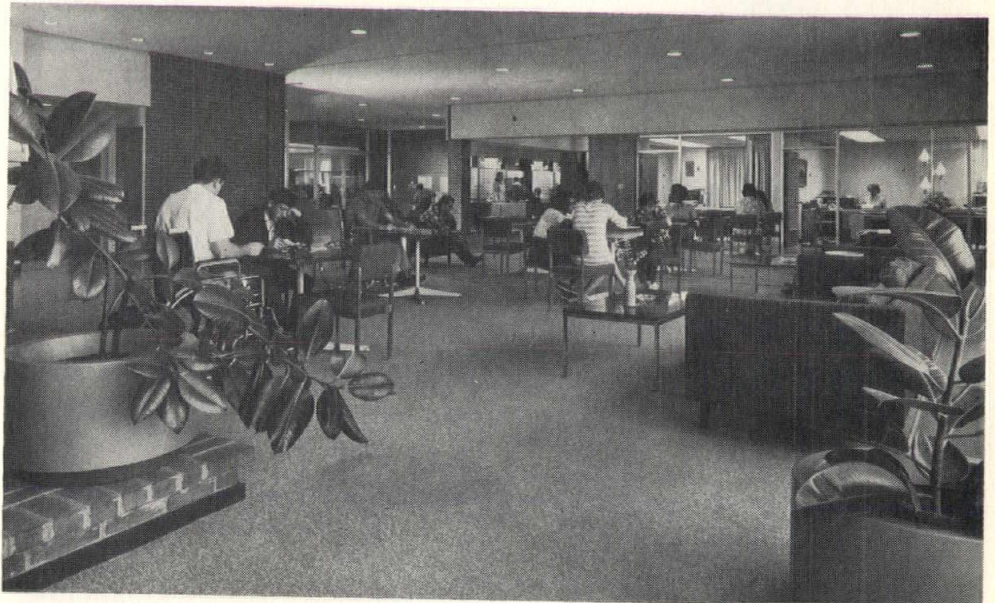
Bottom photo is of the Swimming Pool which lies to the south of the Gymnasium both of which have common use of the adjacent dressing rooms, and baskets area.

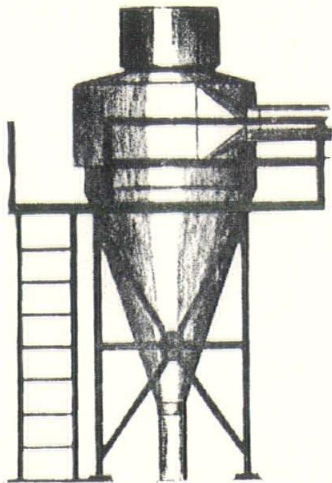
This pool is designed both for able and disabled people—for the swimmer and the non-swimmer. It is designed for both summer and winter use for the competitive swimmer as well as for those whose fear of the water is attributable to physical or psychological constraints—or both. The dominant design feature is a pool for optimal use by the handicapped.

The pool is partially divided into two areas—the eastern 58 foot wading pool that extends from zero depth to three feet and the western 57'-6" swimming pool that extends from three to five feet in depth.

The wading pool includes a ramp so that a wheelchair student, or those wearing prostheses, can move easily into increasingly deeper water. The pool floor on the ramp is of rough exposed stone aggregate similar in texture to sand. The pool edge is of precast rough concrete and the remaining floor area is of non-slip quarry tile. Acoustical asbestos, that is not susceptible to condensation, is sprayed onto the ceiling, and the air conditioning system moves large volumes of air to reduce condensation to a minimum. By using light, bright, sunny colors with spotlights in the ceiling, a summer-like environment has been created. The north wall is glazed surface brick; the west wall is of glazed wall panel between face brick; the south wall consists of windows and glass doors between brick piers; and the east wall is all window and sliding doors which, in summer, can be opened for access to the exterior sundeck and which introduces ample natural light to the interior.

The pool includes ladders, with grab-bars, steps, and a seating bench six inches below the water surface.





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INTERIOR DESIGNERS:

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THE NATIONAL THEATRE, originally constructed in 1926, with a seating capacity of 1500, was designed with complete stage facilities for live performances. Only minor changes have been made to the building since its opening. Aside from a new marquee in 1950 and re-spacing of the orchestra seating also in 1950, the only significant change has been its transition from live performances to motion pictures. Neighborhood Theatres, Inc., owners and operators of the theatre, in updating and modernizing this fine old theatre were concerned that modernization should not infringe on the theatre's ability to provide live performances nor should it destroy the original charm and character of the building. To save the finely crafted ornate plaster, wood and marble work throughout the building while conforming to new standards of comfort and safety provided a challenge to the architect and to the interior decorator.

The most difficult problem was to re-space the balcony seating from the existing 29" back to back dimension to a minimum of 35". This had to be done while holding to the levels of a main cross-aisle and two upper level exit doors, as well as providing for the more critical sight-lines needed for live performances, not common to most motion picture theatres.

A new flooring system was employed which had been successfully used by the architect on Richmond's recently renovated Mosque Auditorium. This system consisted of fire-treated wood-framing and flooring, covered with resilient tile. The system greatly reduced construction time by eliminating the need for costly demolition of existing concrete risers and platforms which would have required the forming and pouring of a new floor. This system also gave other trades greater freedom

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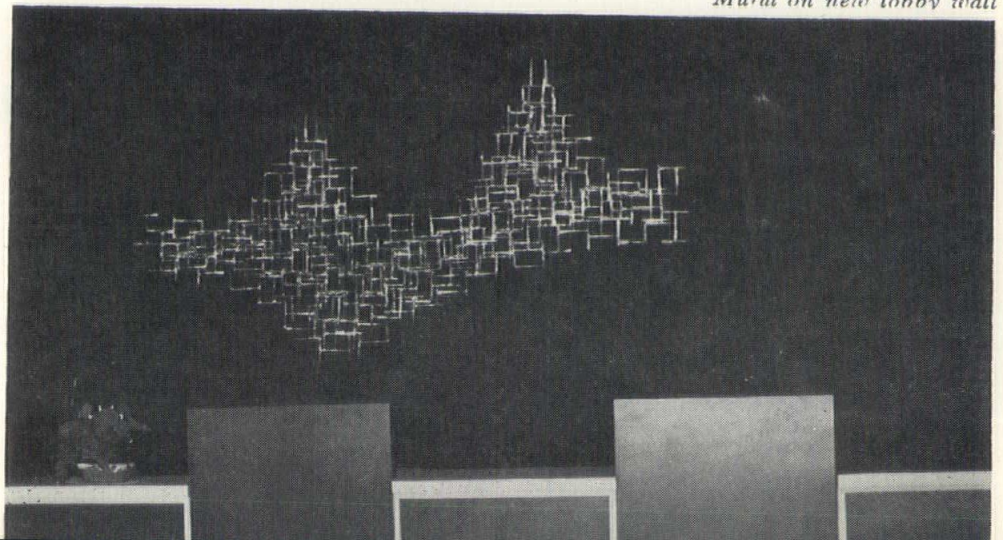


Bottled beer was 10¢—men's suits \$15.00 at the National Theatre's heyday. (Photo by Dementi Studio)



New marquee—entrance & cleaning

Mural on new lobby wall



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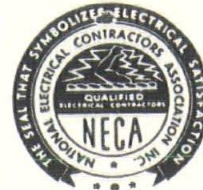
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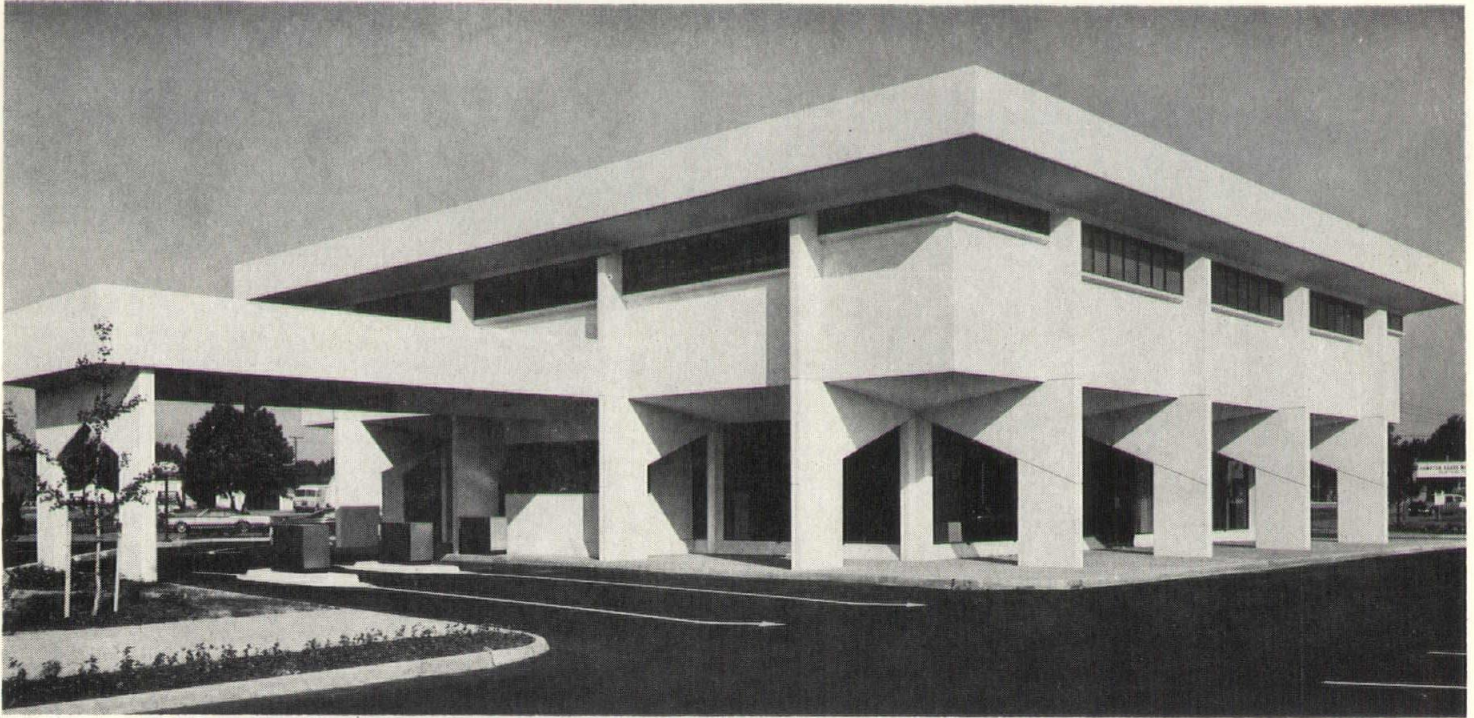
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The branch bank features sit-down teller's desks designed by the architects. Furnishings and fabrics were selected by the architects. The 8,000 square foot building is carpeted throughout with the exception of access flooring in the computer room. Separate multi-zoned heating and cooling systems serve each floor with back-up units for the computer area.

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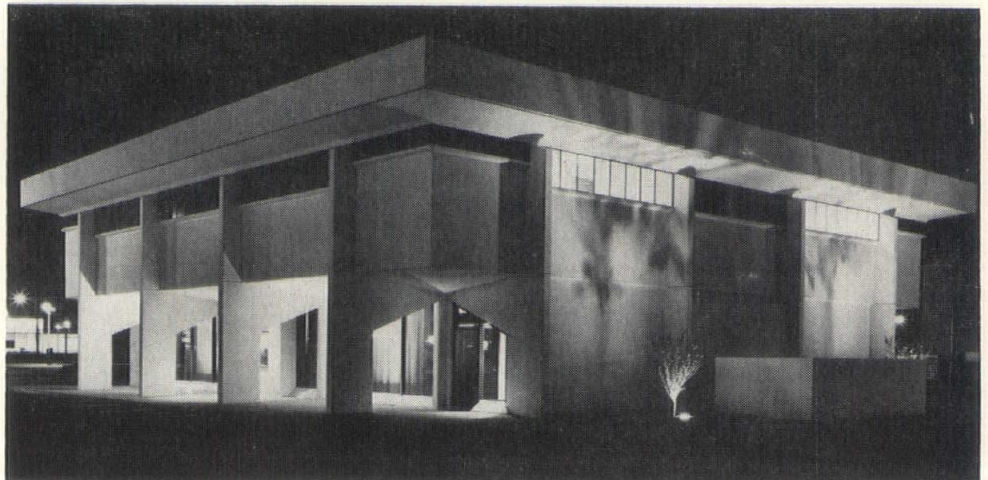
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(Continued from page 10)

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Born November 20, 1939 in Cincinnati, Ohio, Clark received his B.S. degree in Architecture from the University of Cincinnati in 1963 and his Masters in Architecture from the University of Washington in 1964. Clark is presently Assistant Professor in the School of Architecture at the University of Virginia.



JAMES AUBREY DOUGLAS COX

Born May 10, 1924 in Herne Bay, United Kingdom, Cox received his diploma in Architecture from the School of Architecture in Oxford in 1952. Cox is presently Assistant Professor in the School of Architecture at the University of Virginia.

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**AIA JOURNAL PREDICTS
INDUSTRIALIZATION OF BUILDING**

• Construction, which has been called the one industry the industrial revolution overlooked, will inevitably move into high gear production, according to an article by C. T. Larson, FAIA, in the August AIA JOURNAL.

This forecast by a University of Michigan professor and architectural research coordinator, says that the building industry today can hardly be called modern, "so long as it remains a conglomeration of local entrepreneurs operating in a feudalistic and restricted fashion."

But, a shift will come, Larson writes, and when it does, it "will be marked by an emphasis on high volume production and diminishing unit costs." What will happen is what happened to other American industries—there will be an expansion in the number and scope of individual enterprises, culminating in mergers and the emergence of a few giant organizations that dominate the field, Larson predicts.

With this organizational growth will come, he says, an increasing emphasis

on the introduction of new techniques and a higher level of performance capability in the end product. Gradually, there will arise "the concept of service for the public good as the ultimate goal in industrialization," writes Larson, in the official magazine of The American Institute of Architects.

He likens "the concept of service for the public good" to the position of American Telephone & Telegraph today: "Although it no longer has a competitor, as does Hertz, to urge it to try harder, AT&T is nonetheless under compulsion to excel itself continually—the public can always be expected to make new demands."

According to Larson, straws of change already can be found in the winds sweeping the construction field. And, what does it all mean for architects? He sees an "exciting and challenging vista opening up to the profession."

More importantly, however, Larson sees an inevitable industrialization of building promising "immeasurable gains for man and his society."

(For more AIA news see pages 71-82)

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AIA PUBLISHES PROFIT PLANNING MANUAL

• "Plan or perish" is the unequivocal view of Dr. Charles J. Marsh and Alf E. Werolin, of Case & Co., Inc. San Francisco, management consultants who prepared a new handbook, "Profit Planning in Architectural Practice," for The American Institute of Architects. The importance of the subject and the need for planning ahead for a profitable practice became evident during the preparation of AIA's "Economics of Architectural Practice," published in January, 1968.

The new manual presents practical "how-to" procedures and will become a chapter in The Institute's expanding "Architect's Handbook of Professional Practice." When the manual was unveiled at the AIA's Convention this summer, Dr. Marsh said, "It's a rare principal who plans for his business the way he plans for his projects."

Werolin noted that many architects are wedded to a fee schedule and are reluctant to deviate because they know of no reliable index on which to base fees. The profit planning book lists eight. "Regard your profit planning as dynamic and deliberate," Werolin advised. "Each decision won't be an independent one if you use it all year round. Profit planning isn't going to make the decisions for you, but its going to make the consequences clear."

The method suggested by the Case consultants involves a relatively simple charting of all estimated expenses and desired profit, checking actual fiscal experiences periodically—usually every month—against the projection, and making adjustments where figures move far out of line.

Copies of the 83-page manual are available from the Documents Division, The American Institute of Architects, 1735 New York Avenue, N.W., Washington, D.C. 20006. Price is \$2—members; \$5—non-members.

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"A STATEMENT OF PROFESSIONAL SERVICES" PREPARED BY AIA

• "The relationship and responsibilities that generally are recognized and that customarily exist between an architect and his client" are set forth in A STATEMENT OF PROFESSIONAL SERVICES which has just been published by The American Institute of Architects.

Stating that "The Architect is prepared to serve the public by playing an essential part in all stages of creating and constructing our physical environment," and that "He can be of great assistance . . . in each of the three stages involved in every building project: Decision, Design, and Delivery," the 16-page booklet was prepared for the basic purpose of briefly

explaining the current AIA Owner/Architect Agreements (AIA Documents B131, B231, and B331) and the services which those agreements normally include.

The Institute is studying the expansion of its present Standard Forms of Agreements and the development of other variations to encompass the complete range of services in the Decision/Design/Delivery process.

Copies of A STATEMENT OF PROFESSIONAL SERVICES may be ordered from the Documents Division at AIA Headquarters. Price is 50¢ each or \$25 per 100 copies. Payment must accompany orders of less than \$5.

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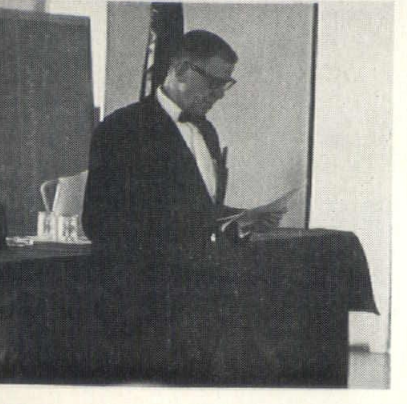
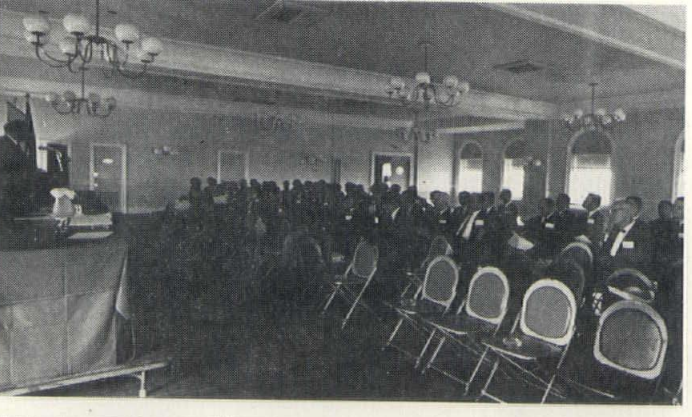
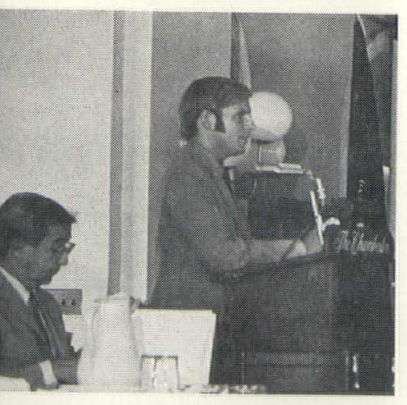
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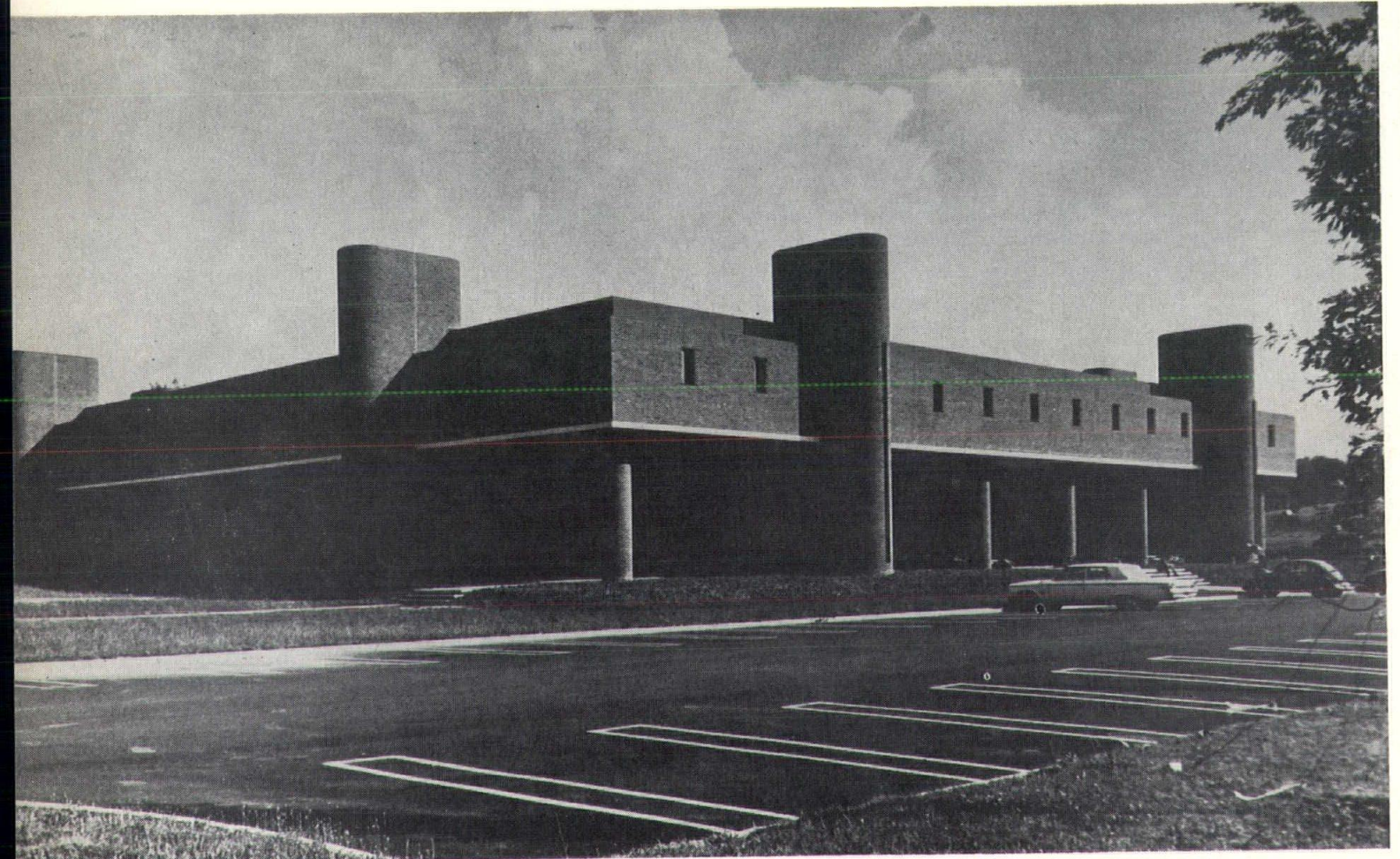
Left to right, top row, Secretary John Chappellear, Ken Motley, presiding; a standing ovation for Jack Wilson for his work on the first Virginia Architect's Handbook; Linwood Walker and Henley Walker at ease. Left to right second row, president elect Chick Marshall, Ken MacIlroy; Carol Hill, Courtenay Welton, Bob Ward, John Hill, Pete Anderson and Jim Glave taking the sun on the patio; Delegate Glenn Yates talking on the iron curtain. Third row, Bob Levison speaks as Warren Hardwicke and Tom Parrish listen. Fourth row, Ray Gaio speaks while throngs listen; Bottom row, Walter Nexsen reads the report of the nominating committee; Thomas K. FitzPatrick, Jim Glave, Joe Bosserman socialize, center while at right, members study intently the Chapter Budget for next year.



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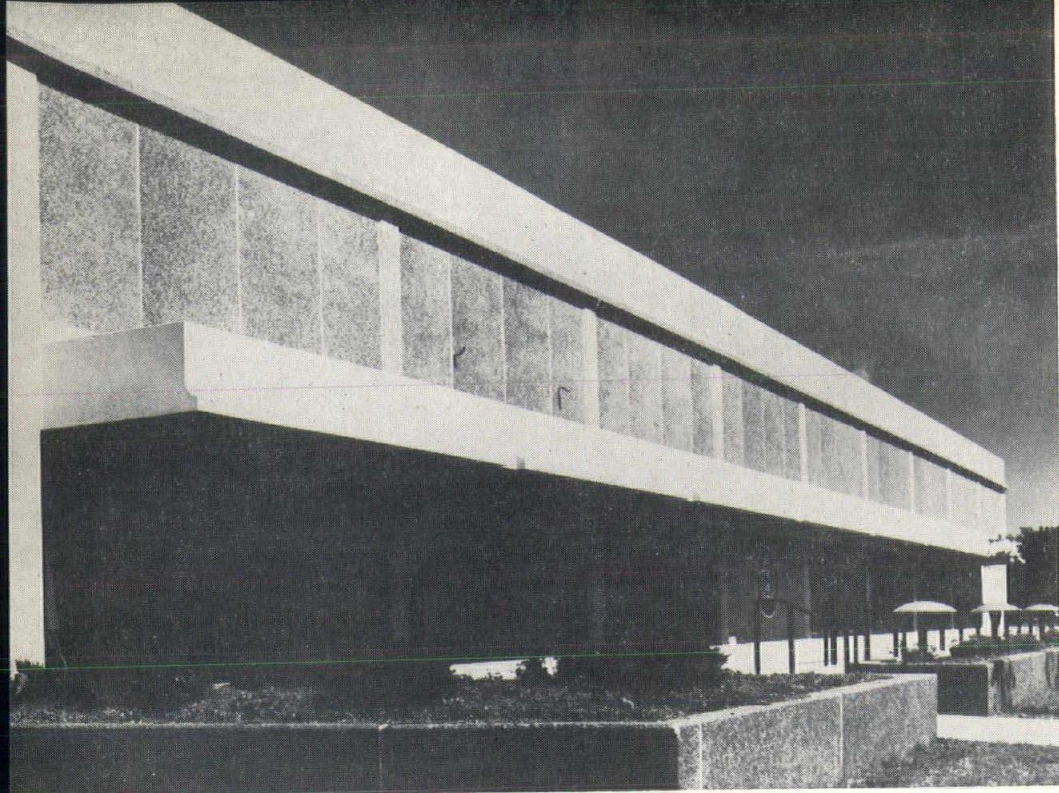
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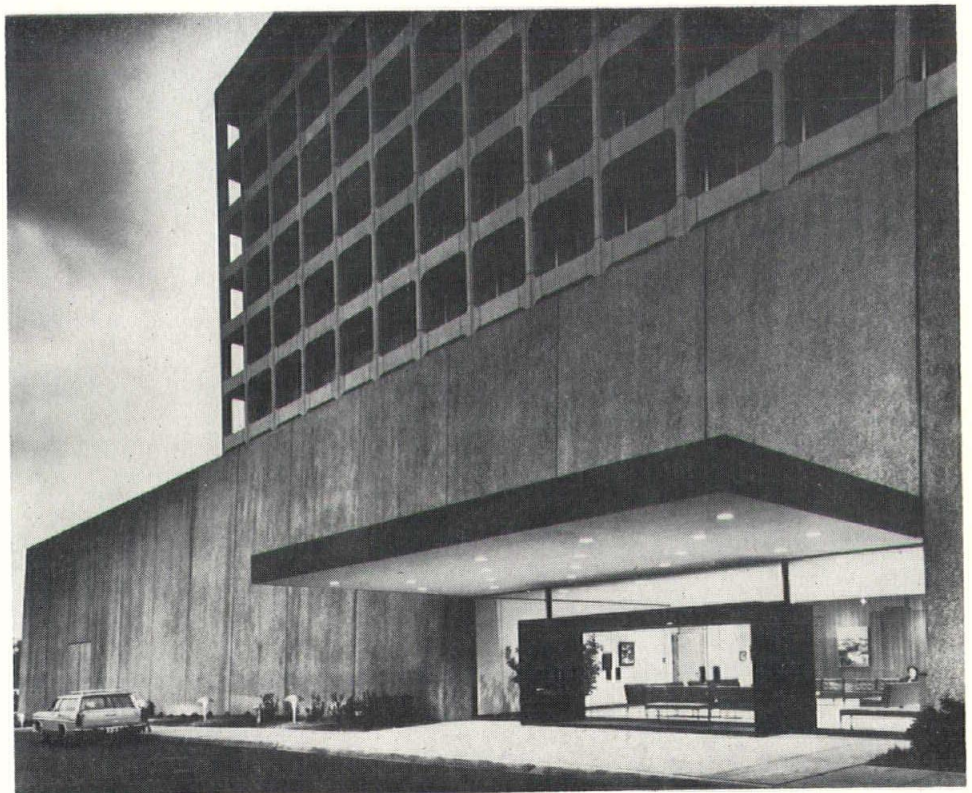
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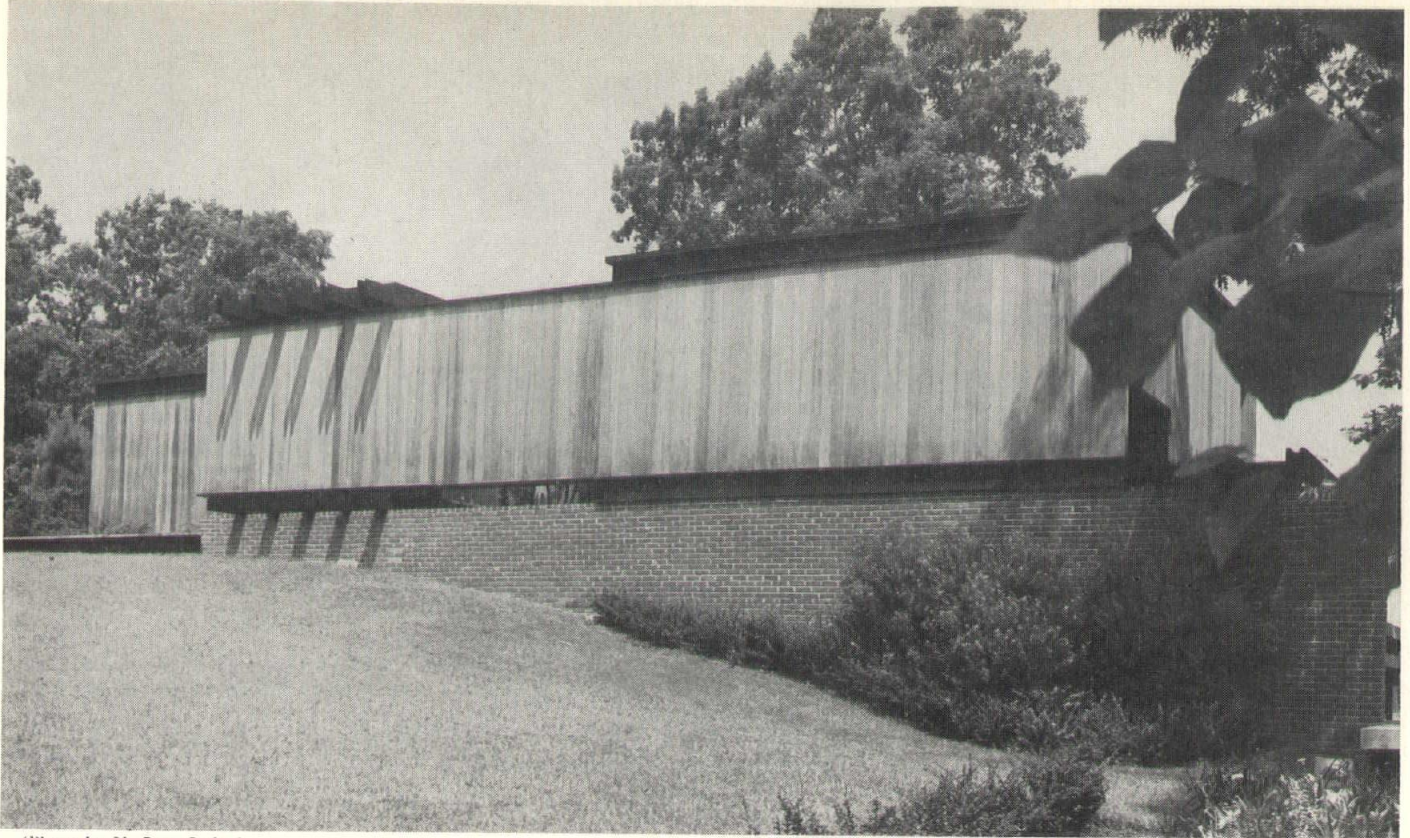
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AIA ESTABLISHES UNIQUE TASK FORCE

• Following a pledge to the 1968 AIA Convention to "implement the challenging suggestions" of Whitney M. Young, Jr., President George E. Kassabaum, FAIA, assembled a national AIA Task Force and met with them at The Octagon on July 25. "Our professional role in the civil rights movement has been superficial," he told the group, and said that their purpose would be to "develop specific positive programs for chapters and individual members."

The members of the interracial Task Force are Leon Bridges, AIA Seattle; Jeh V. Johnson, AIA, Wappinger Falls, N. Y.; Robert J. Nash, AIA, Washington, D. C.; Dewey A. Somdal, FAIA, Shreveport, La., and Allan Y. Taniguchi, AIA, Austin, Texas. Also present, in addition to Mr. Kassabaum, were First Vice President Rex W. Allen, FAIA, San Francisco; Vice President David N. Yerkes, FAIA, Washington, D. C.; William H. Scheick, FAIA, Executive Director of The Institute, and Israel Stein, AIA, Associate Director, Urban Programs.

During the day-long, open discussion of the current status of, and opportunities for, the Negro in architecture, they explored education, job training, involvement with the other design disciplines, encouragement, recruitment, and assistance to all minority groups.

Among the considered suggestions for action were: (1) each chapter should examine carefully its own membership policies to insure that all qualified applicants were encouraged to join the AIA (2) members of minority groups should be encouraged to become active in chapter affairs so that they eventually might become officers and directors; (3) establish scholarships to permit qualified high school graduates to enter and complete college training; (4) encourage the hiring and training of young men from disadvantaged neighborhoods; (5) encourage the use of minority-group building contractors; (6) suggest that architects attempt to put equal employment clauses in all contracts; (7) enlarge the experience of architects - in - training, by training young architects to deal with clients, establish fees, and the like; (8) refer projects to minority-group architects;

(9) advise young architects on how to get started in practice; (10) individual and chapter support for community design centers; (11) increase the scope of elementary and secondary school programs on environmental awareness to stimulate more interest in joining the profession, and (12) review their own office practices to eliminate any disparity of salaries between white and Negro employees.

President Kassabaum requested members of the Task Force to review these suggestions in the context of the discussion and furnish written reports on other specific programs. Implemen-

tation will be the subject of their next meeting, scheduled for this fall.

Underscoring The Institute's interest in establishing and implementing such programs was the adoption of a resolution at the Portland Convention to establish a national scholarship program for members of disadvantaged, minority groups for the study of architecture, and to seek voluntary contributions from AIA Chapters and others. At the Organization Meeting of The Board of Directors in Honolulu, July 1, an annual contribution of \$5,000 was approved for the next three years.



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RISING USE OF AIR RIGHTS PRINCIPLE SEEN

• An increasingly significant role for the air rights principle of construction in urban redevelopment is forecast in the latest issue of *AIA Journal*, official magazine of The American Institute of Architects.

Writing in the July issue, Thomas F. Galvin, AIA, says that the air rights concept is now commanding wide attention from government officials as a method of coping with the complex problems of the urban crisis. He is a partner in the New York architectural firm of Brown Guenther Battaglia Galvin.

The key element in all air rights structures is the utilization of space by two entities with separate legal, tax and financing responsibilities. Air rights may be sold or leased and may be over highways, railroad yards and existing or planned private and public facilities.

One of the most acute problems, Galvin says, is the growing scarcity of usable construction sites in the city and the consequent steep rise in land costs.

"Another problem is the severe economic burden on governments in providing funds for construction of such vitally needed facilities as schools, libraries, health centers, fire and police stations, transportation centers and recreational areas," he notes.

Air rights construction, which involves the building of residential or commercial structures over government facilities such as schools or highways, is specifically useful in meeting these problems, Galvin states. Among

the valuable benefits of government participation in air rights projects, he says, are:

- Conservation of land through more efficient use of available sites
- A new source of revenue through sale or lease of air rights to private developers
- An additional source of revenue through the return to the tax rolls of land that was formerly tax-exempt. The private segment of the combined air rights structure pays taxes based on the assessed valuation of the leasehold and the improvement.

In many cases, Galvin points out, the combined revenue from sale or lease of air rights and taxes can pay for the entire cost of the public facility.

An historic development in air rights use for public facilities, Galvin notes, was the formation of the New York City Educational Construction fund with the responsibility for creating air rights sites and developing income-producing properties over public schools.

Its first project—Highbridge House and P.S. 126—is now under construction in the Bronx. The development combines a three-story elementary school for 1,400 children and a 25-story middle-income cooperative apartment house for 400 families. Designed by Galvin's firm, the complex includes major recreational areas for the students and also for the students and also for the apartment residents.

The air rights concept, he says, also

is being pioneered in the private education field by Trinity Schools, one of New York's oldest continually functioning private schools for boys. The project—Trinity School and Trinity Tower—involves a 200-middle income apartment tower which is being built above a new three-story school on an urban renewal parcel. Located on New York's West Side, it also was designed by Brown Guenther Battaglia Galvin.

The development of air rights projects combining public facilities, such as schools, with private structures, represents a demanding architectural challenge and involves a wide spectrum of considerations, Galvin says. These include structural design in providing functional separation between the two segments of the project, legal ramifications, financing, and allocation of construction costs, among others.

"Nevertheless," Galvin says, "the solution of these problems can be a deeply satisfying experience in contributing to the improved quality of urban life."

The article also features a detailed discussion of the development of the Trinity School project, as a prototype "air rights" design requiring solution of many complex factors entailed in building it in an urban renewal area.

"The progress in bringing together government and private groups in this, as well as in other air rights projects now underway, reaffirms the validity and increasing role of the concept in contributing to urban redevelopment," Galvin says.



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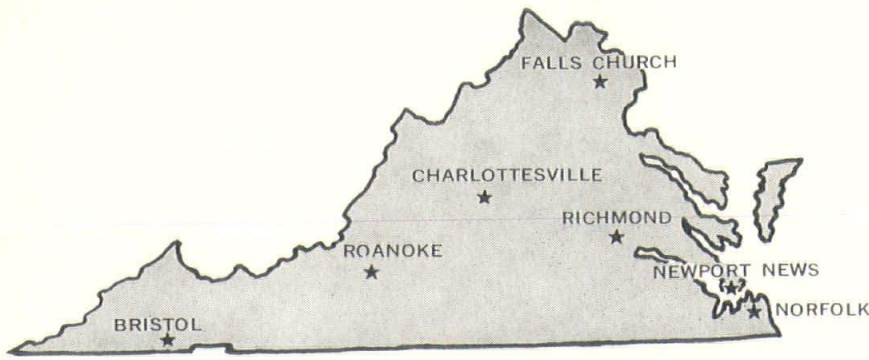
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Jury Announced For AIA's 1969 Critic Awards

• The American Institute of Architects has announced the jury for the 1969 Architectural Critic's Medal and Architectural Critic's Citation. Members of the five-man jury are: Jean-Paul Carlhian, AIA, Chairman of the AIA Committee on Esthetics, Boston, and Cranston Jones, Senior Editor, *TIME* Magazine, New York City.

Also, George McCue, Hon. AIA, St. Louis, *POST-DISPATCH* and last year's winner of the Citation, St. Louis; Philip J. Meathe, AIA, Chairman of the AIA Public Relations Committee, Grosse Pointe, Mich., and John F. White, President, National Educational Television, New York. They will meet at the AIA Headquarters in Washington, D. C., on October 14.

Critics in all communications media will be eligible for the awards, and nominations will be accepted from the profession as well as from the associations of the various media. The purpose of the awards is "to stimulate, broaden, and improve the quality of architectural criticism in order to increase the public's visual perception in environmental design." As established last year, the Medal is awarded on the basis of a distinguished career devoted to architectural criticism; the Citation recognizes excellence in this area in a single article, program, movie, or the like.

Following judgment by the Jury, the AIA Esthetics Committee, at its discretion, may or may not recommend the presentation of the Medal each year. Lewis Mumford, Hon. AIA, of Amenia, New York, was the recipient of the 1968 Medal.

All questions on the program should be addressed to The Department of Public Services, The American Institute of Architects, 1735 New York Avenue, N. W., Washington, D. C. 20006.

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Fairfax Presbyterian

(Continued from page 27)

used although upwards of seven hundred people have been seated in this space. The traditional narthex has in this design been enlarged and converted into a reception hall and is used for post-service fellowship gatherings.

The Lewis & Hitchcock pipe organ was designed concurrently with the building and is integrated into the rear wall of the sanctuary where it is fully exposed as a decorative feature. A unique architectural element are the natural finished, wood interior shutters which have been employed for glare and sun control, serving to break the otherwise monotonous unornamented brick interior walls. Furnishings and decoration was designed by the architects concurrent with the building concept.

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Earl K. Rosti, Inc., Falls Church, general contractor, carpentry; L. F. Jennings, Inc., Falls Church, masonry; Adams Fabricated Steel Corp., Washington, D.C., steel; Koppers (Unit Structures), Pittsburgh, Pa., roof deck; Virginia Roofing Corp., Alexandria, roofing; Virginia Plate Glass Co., Falls Church, glazing.

Also, Nelson Maffett, Springfield, painting; Robertson Export-Import, Alexandria, paneling; Dodd Bros., Inc., Vienna, plaster; Marty's Floor Covering Co., Alexandria, tile (resilient); Fred S. Gichner Iron Works, Washington, D. C., steel grating, handrails; Charlottesville Lumber Co., Charlottesville, millwork; Bilt-Rite Steel Buck Corp., Brooklyn, N. Y., steel doors & bucks; Walter C. Davis Co., Inc., Alexandria, electrical work; Artisan, Inc., Vienna, plumbing; Refrigeration Service Co., Inc., Alexandria, air conditioning, heating, ventilating; Lesters Hardware, Springfield, hardware; Southern Desk Co., Hickory, N. C.; pews, B. C. Sheets, Bridgewater, chancel furniture.



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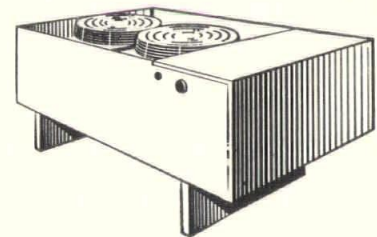
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LINDEN HEIGHTS ANIMAL HOSPITAL

(Continued from page 19)

into the hospital's medical area. The control button is located at the receptionist's desk for client traffic control.

At present, the building has an 11-station intercommunications system with stations strategically placed to save the practitioner extra steps. The full capacity is 20-stations. Four telephone extensions permit fast location of staff members. The receptionist has an emergency alarm buzzer at her desk and a code signal is used to alert staff members when needed.

At the end of the corridor behind the reception area, is an emergency door which doubles as an exit door. There is no outdoor handle and an exterior sign directs clients to ring bell for emergencies. Once this bell is sounded, either the receptionist or practitioner goes to the door, admits the client and patient and directs them to a vacant examination room. This eliminates any mess or commotion in the waiting rooms. The door's location also serves as a handy exit to the parking lot. The client does not need to re-enter the waiting rooms.

The hospital's interior medical walls are paneled with Marlite of various pastel colors. The other hospital walls are painted gypsum board. This material is inexpensive and gives a maximum of an attractive appearance with a minimum of maintenance.

All the ceilings are suspended mineral tile acoustical panels in an exposed grid system. This material provides an attractive, absorptive ceiling and is easily accessible for future modification and expansion. In the ward, surgery and treatment rooms the tiles have been vinyl coated for additional durability.

The hospital's floors are all concrete slabs with a Torginol finish for easy maintenance. All the cabinets and counters were selected from stock items and are wood construction with plastic laminated finishes.

The acoustical tile ceiling and solid core doors reduce inter-hospital noise.

A minimum of two doors was planned between the ward and public areas to control ward noise. Further, an eight-inch concrete block wall, filled with Zonolite, separates the ward from the rest of the hospital and all of the 37 cages are insulated to control noise.

The ward room walls are cement block coated with Torginol. This finish is easy to clean and durable.

The ward room contains 37 stainless steel cages. Cabinets have been constructed above the tiers to utilize space for storage. Each cage is equipped with stainless steel card holder, water pan and brackets.

The seven indoor runs have steel dividers to allow maximum use of space within the building. The run floors are concrete slab treated with Super Sure-Cure to provide an easily-cleaned, impervious surface. Each run has its own drain and the floor has a slope of one inch per foot.

The building is heated and air conditioned by two separate systems. One system includes the ward, treatment and surgery rooms. The other provides temperature control to remaining rooms in the hospital.

The heating systems are gas fired, forced-air with electronic air filters. The cooling systems are electrically operated air cooled condensers with cooling coils. Fresh air intakes provide controlled mixture of ventilating air. Exhaust fans to the outside with individual controls are in the ward, surgery, and treatment rooms. There is no air return from the ward

or surgery in order to isolate and dispel odors from these rooms.

The use of separate area heating and cooling units works well to prevent odors and control infection. Exhaust fans were installed in each of the three toilets, laundry room, kitchen and laboratory. The kitchen and laboratory, where odors are more intense, have overhead hoods to collect odors and dispel them to the building's exterior.

The X-ray room contains a Universal 125 Ma, 115 Kv rotating anode machine with a 1/60-second electronic timer. The adjacent darkroom has a wet and dry side. The X-ray room walls are lead lined and a portable screen protects the individual making the exposure.

Two doors open into the surgery. One leads to the laboratory-pharmacy and the other opens into the treatment room. The treatment room has in one corner an L-shaped formica topped counter. This unit contains all necessary equipment with a stainless steel sink with sprayer. Wherever possible, extra equipment has been mounted on the wall. The counter is next to a raised tub for bathing, treatment and surgical preparation. Four cages in this room are used for recovery and the fifth is an oxygen cage for inhalation therapy.

The 24-foot long laboratory-pharmacy has double stainless steel sinks. Over one sink is a hood and air exhaust fan to the outside to eliminate odors from the room.

(Please turn the page)

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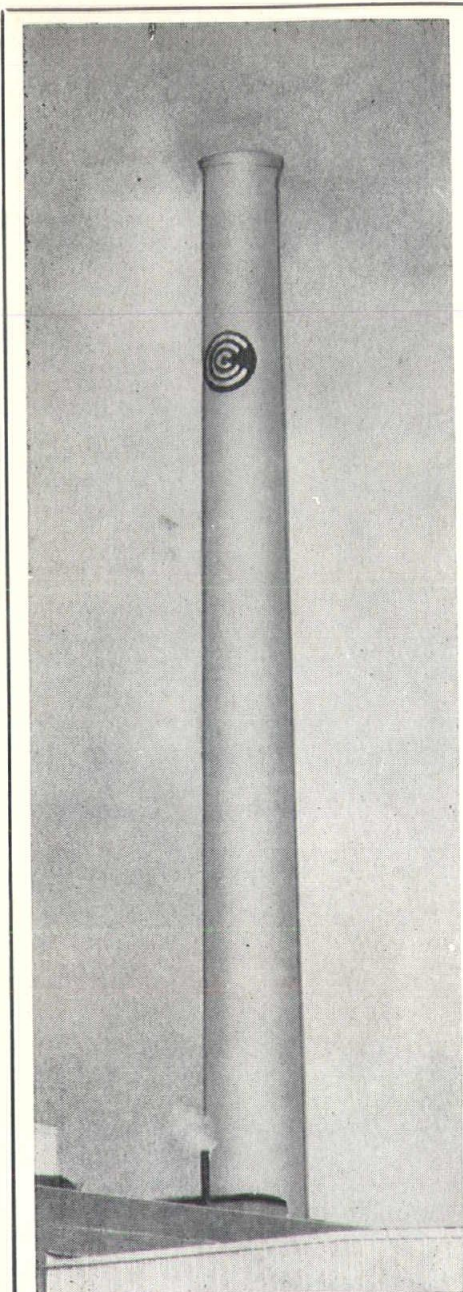
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(From page 86)

The overhead cabinets have glass shelves and sliding glass doors. This assists the practitioner in quickly selecting his drugs. A countertop refrigerator holds biologicals.

The three examination rooms are side-by-side and in front of the laboratory-pharmacy room. A wall mounted examination table is installed in each room. Above the tables is a movable lamp for close examination. Against the wall are two wall-hung cabinets with step-type shelves to aid in locating drugs.

A stepped-up counter gives two advantages. It allows a writing surface at the correct height for a standing veterinarian and prevents splashing from scrub sink. The cabinets are walnut grain finish formica. Each examination room is paneled in Marlite.

A completely equipped kitchen is provided for patient and employee food preparation and employee lounge area. It contains a self-cleaning oven, overhead hood and exhaust fan, refrigerator, garbage disposal, and blender.

Adjacent to the kitchen are complete laundry facilities with a washer

and dryer. This is used daily to launder hospital garments, surgical, drapes, and animal sleeping towels. A water-softener was incorporated into the hospital plumbing system.

The entire hospital has a central vacuum system with six strategically placed outlets. A hair trap is located under the tub and is accessible through a panel in the operating room wall.

The kitchen-laundry facilities are the basics for a studio apartment in the future. There is a sofa bed in the office.

The hospital has a 16 speaker music system. Each speaker has its own volume control. The control center is in the office and day-long background music can be provided from stereo, FM, AM, tapes, or records.

The office has wall-to-wall carpeting, paneled walls, sofa-bed, chair, color TV and private bath with a one-piece Fiberglas shower stall.

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GOLDEN SKILLET

(Continued from page 25)

Golden Skillet Fried Chicken is a quality product and from the beginning it was decided to indicate this fact in every possible manner. The understated design of the sales building reflects this basic decision. If the building is to be thought of, in promotional terms, as a package advertising the product it contains, the rather dignified image of this package will inevitably convey some sense of the quality of this product to its potential customers. This soft-sell approach must, at the same time, be conditioned by the fact that the idea, after all, is to sell chicken. The restraint inherent in the design of the sales building is intended to make it stand out conspicuously from the company of the other drive-in restaurants that characterize the suburban highway—in much the same way that the use of white space on the printed page draws attention to a newspaper advertisement.

For what is, when all is said and done, a very small building, an unusual degree of planning and coordination has been required. The pilot project illustrated here and designed by Rawlings & Wilson, was built as a "laboratory" store where new ideas in marketing fried chicken could be tested; in addition, it functions as a training school for new franchisees who are here offered an intensive course of instruction in the fundamentals of product preparation, quality control, bookkeeping, accounting, automation, and all of the other applicable administrative and operational procedures. The operation of the com-

pleted building has thus been subjected to intense scrutiny by the highly trained men and women who work in it daily, by the franchise management, by management trainees, and by the architects. The feed-back process to date has been nearly continuous, and the modifications are refinements of detail tending in general to strengthen the image of the Golden Skillet, the most noticeable of these being the exterior and interior signs. Every architect would like the opportunity to take another look at his buildings after completion to see how well they work, but it is rare to be able to feed this new programmatic knowledge back into an improved version of the original. The Golden Skillet building program offers this opportunity and it has been gratifying to all concerned that the second generation buildings (to be opened in the fall of 1968) are almost exactly like the original.

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(Continued from page 15)

communion station arrangement. The stained glass windows are untraditional, carrying random patterns of color, radiating from dismal darks at the bottom to joyful effulgent tones of light at the top. Instead of biblical inscriptions there is expressed the integral relationship of the Center's activity to that of the surrounding Uni-

versity community through the use of texts of relevant quotations from the great authors expressive of the sciences and disciplines represented in the University community. The functions of the Center are more complex than the normal parish. There is emphasis on worship; but of equal importance is the teaching function, much of which is on the graduate level carried out in this facility."

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Bank of West Point

(Continued from page 39)

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The main banking room floor is terrazzo with carpet for the floor of the desk or platform space. Floors of the two offices and the board room are also carpeted.

The floors of the bookkeeping room, corridors, vaults and toilets are vinyl asbestos.

The ceilings throughout are acoustical tile laid in a 2' x 2' exposed grid system.

All partitions except toilet rooms are steel stud with drywall covered with plastic faced wall fabric.

Lighting is generally recessed fluorescent except in the center of the banking room. There hangs a lovely brass and crystal chandelier.

The building is air conditioned summer and winter by two heat pumps.

The vault doors, drive-in teller's window and night depository were furnished and installed by Diebold, Incorporated.

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Cascades Restaurant-Meeting Center

(Continued from page 43)

Year around temperature and humidity control is maintained on the upper level by a dual duct high velocity system, and on the lower level by a unique single duct variable volume system.

Subcontractors and suppliers include the following: (Richmond firms unless otherwise noted) Taylor & Parrish, Inc., general contractor, excavating, foundations, carpentry, paneling & waterproofing; Freeman Materials, Inc., Williamsburg, concrete; Hammond Masonry Contractors, masonry; Liphart Steel Co., Inc., steel; Concrete Structures, prestressed concrete; J. B. Eurell Co., roof deck; N. W. Martin & Bros., roofing; Stonnell-Satterwhite, Inc., stone work (paving) & ceramic tile; Sash Door & Glass Corp., windows & glazing and Colonial Williamsburg, Williamsburg, painting.

Also, E. S. Chappell & Son, weatherstripping; John H. Hampshire, Inc., acoustical and resilient tile; F. Richard Wilton, Jr., plaster, lathing & stucco; H. Beckstoffer's Sons, millwork; J. A. Archer Co., steel doors & bucks; Chewning & Wilmer, Inc., electrical work; Noland & Co., plumbing fixtures; Harris Heating & Plumbing Co., Inc., plumbing, air conditioning, heating & ventilating; W. W. Moore & Sons, Inc., elevator; Pleasants Hardware, hardware and E. W. Muller Contractors, Inc., Newport News, paving.

GMAC/IMC

(Continued from page 49)

Although a generous number of parking spaces were required, ample and striking landscaping is provided. Thorough study of exterior lighting has effectively enhanced the building and the landscaping. With the assistance of the City Arborist, spaces were left in the full width sidewalk for the planting of new trees.

Subcontractors & Suppliers (Richmond firms unless otherwise noted)

Alexander Building Construction, Inc., general contractor, foundations, concrete, carpentry; P. E. Eubanks & Co., excavating; Lee Hy Paving Corp., bituminous paving; Southern Brick Contractors, Inc., masonry; Liphart Steel Co., Inc., steel, steel roof deck, roof deck; R. Willison Roofing Co., roofing; Binswanger Glass Co., glazing.

Also F. Richard Wilton, Jr., Inc., painting, paneling, insulation, acoustical, plaster, tile (resilient) General Tile & Marble Co., Inc., tile; (ceramic) H. Beckstoffer's Sons, millwork; J. S. Archer Co., steel doors & bucks; Central Electrical Service Corp., lighting fixtures, electrical work; Hungerford, Inc., plumbing fixtures, plumbing, air conditioning, heating, ventilating; Pleasants Hardware, hardware.

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Hamilton Street Medical Building

(Continued from page 55)

All ceiling lighting is accomplished in this manner with all troffers recessed.

Quality finishes were incorporated throughout with prime consideration given to ease of maintenance and long wear. Vinyl wall fabrics are used in many areas and vinyl sheet goods and vinyl asbestos tile cover most floors.

On site parking for 23 cars, is confined to the rear of the building and all cars are screened from the street. Parallel public alleys, to the north and south of the building, are utilized for parking ingress and egress.

A partial basement located conveniently in the center of the building houses certain equipment used in common, as well as locked storage cubicles for each tenant.

Chimborazo School

(Continued from page 56)

concrete masonry block making up the interior walls. The controlled heating and cooling environment allowed windows to be kept to a minimum. Corridor floors are terrazzo with vinyl asbestos tile being used for the classrooms. Wainscots of clear yellow ceramic tile bring a lightness into the interior passageways. Careful planning was exercised in the selection of finish materials and color schemes. Stimulating colors are used in the lower grades while quiet shades are used in the classrooms occupied by the upper classes. Cool colors predominate in the administrative offices, health service area, and the lunchroom. The color scheme was carried further by coordination between the equipment purchasing department and the interior designer.

The 60,000 square foot Chimborazo Elementary School is being built at a cost of \$870,000 and is scheduled for completion this fall.

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Towne Theatre

(Continued from page 65)

to complete their work. The reduction of live loads (a result of re-spacing of the seats) offset the slight increase in dead load of the framing system used.

The other major construction work concerned the entrance lobby and ticket sales area. With revived interest in live performances and reserved-seat road show films, the new box office was designed to better facilitate advance and reserved seat ticket sales as well as the "spot" ticket sales made just prior to show time.

The ceiling of the new stainless steel marquee was sloped and carried through the first set of doors, which had been recessed six feet, to provide an inviting transition from the sidewalk through the outer lobby to the charm of the newly decorated inner lobby and the theatre proper. The decoration by Milton Glaser Associates presents a strikingly warm and inviting atmosphere with accents to blend with the carpet, seats and curtains.

The building now boasts, among other things, a stereophonic sound system, new wiring and lighting, as well as completely modernized rest rooms and projection equipment.

The front of the building above the marquee level was given a thorough steam cleaning which enhances the original architectural design and detail of the facade.

The new marquee was designed

along standards of contemporary motion picture houses dictated by the owner. The entire Broad Street front of the theatre may easily be reconverted to its original design.

Neighborhood Theatres, Inc. who own theatres throughout the state of Virginia, have been systematically renovating and modernizing these theatres in an effort to provide first class entertainment facilities for the public. The National Theatre is the most recent of their efforts toward this end.

Newly decorated and renamed the "Towne" the old National takes a new lease on life to provide good entertainment in comfortable surroundings to Richmonders for many years to come

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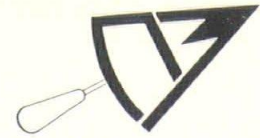
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FOR THE RECORD

CORRECTION

In our August 1968 issue, we erroneously credited Webster Brick Company with supplying brick for the Martinsville Municipal Building. The brick were actually furnished by OLD VIRGINIA BRICK COMPANY, INC., of Salem.

DONATION DAY FOR SHELTERING ARMS IS NOVEMBER 7

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The hospital must raise \$309,400 this year for daily operating expenses. This will provide for an out-patient clinic for those who need such care, as well as regular hospital medical and surgical care.

This year Sheltering Arms' Donation Day is November 7. It is earnestly hoped all Sheltering Arms friends of the past, and new ones, will give what they can to support this cause of mercy and a dignified way of life.

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COMPUTER TECHNOLOGY CHALLENGE

■ In recognition of the increasing dialogue concerning the impact of developing computer technology on the construction field, the September issue of The Construction SPECIFIER devoted itself editorially to this continuing challenge in construction technology.

Dean Brown, Manager of the Stanford Research Institute Systems Engineering Laboratory, discusses refined techniques of computer usage in the lead article, "Some Benchmarks for the Future." Dr. Bartow Hodge of IBM reports on characteristics in "Elements of Digital Computers" and C. Herbert Wheeler, Jr., associate Professor of Penn State University, offers insight to the changing roles of the architect and specifications writer in the article "Emerging Techniques of Architectural Practice."

James S. Sugiyama, a member of

a Canadian consulting engineering firm, reports on a system he developed for coding master specifications in "A Case Study." University of Nebraska Professor Bryon Radcliffe explains "The Domain and Practice of CPM" in an informative discussion and explanation of the highly adaptable Critical Path Method in scheduling construction works.

Also included in the September SPECIFIER is a four page Status Report of the CSI Documents Program and the several special columns including "Spec-Talk," "Double-Take," "Readers' Forum" and "Books." A monograph on roofing will also be included in this issue.

The SPECIFIER Art Staff has produced a highly imaginative cover which depicts, in generalized form, some of the varied types of knowledge which can be stored on computer tapes.

A.B.C. Honors "Man of the Year"

■ Rev. Leon H. Sullivan, pastor of Zion Baptist Church and founder of the famed Opportunities Industrialization Centers, was honored as "Man of the Year," by the Associated Builders and Contractors at a testimonial dinner September 26.

The testimonial affair at Philadelphia's Convention Hall drew numerous persons from all walks of life to pay tribute to the widely acclaimed work of Dr. Sullivan and to train the disadvantaged for jobs and citizenship.

The award was presented by ABC President Frederick C. J. Schnabel of Lansdale, Pennsylvania, "For his great achievements in inspiring and training for responsible citizenship, for lifting up the poor and disadvantaged to a new life of opportunity and for encouraging others in the great task before America to realize the ideals of democracy."

Dr. Sullivan has won national recognition for his work in the field of training. His program, started with self-help in Philadelphia, has spread to many other metropolitan centers in the nation.

Dr. Sullivan has been guest speaker at meetings of the Associated Builders and Contractors, who have been hiring many of his trainees for work in the construction industry.

He has also toured facilities and job sites of the Open Shop industry trade association, where he witnessed equal opportunity at work.

Dr. Sullivan has urged cooperation of all in the industry for integration of all minorities in the important trades.

Previous awards for "Man of the Year," have been accepted by Senator Dirksen and John McClelland.

(More For the Record on
pages 99-107)

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Governor Dedicates Wytheville Site

■ Governor Godwin dedicated the first building at the Wytheville Community College site, October 6, and said that future expansion was tied to the vote on the higher education bond issue November 5.

Unless the bond issue passes, the six community colleges covered by the bonds and the expansion of existing community colleges will have to come from the same tax funds, the Governor said.

"We must have the buildings in the bond issue," the Governor said. "and there are only two ways we can get them. The money can come from bonds, or from the State's General Fund."

The General Fund, he said, is what finances additions to the community colleges already built.

"Areas that have a community college already are just as much involved in the bond issue as those who don't," the Governor said.

He pointed out that the new Wytheville site so far has only one building, but that more will surely be needed.

So far as community colleges are concerned, those who said it couldn't be done and those who said it shouldn't be done have been proved wrong by the people themselves according to the Governor.

"Wherever we have opened the new two-year colleges, they have been full to overflowing before the first class graduated," he said.

Wytheville itself, he pointed out, had only 107 pupils in 1963 when it was a branch of Virginia Polytechnic Institute, now there are 800 students

with 35 full-time and 25 part-time faculty members.

For the first time in her history, the Governor said, Virginia has resolved that every citizen shall have the opportunity for an education to the extent of his capability.

If this is a departure from the philosophy of the past, it has been more than vindicated by the response to community colleges in the present, the Governor said.

"More than any other factor, the future of Virginia depends on educa-

tion," the Governor said. "The advancement of knowledge itself demands it. Our new industries demand it. And the people themselves demand it."

With the two bond issues, one for higher education and one for mental health, Virginia is only trying to keep pace with her own economic growth and that of the Nation, the Governor said.

"When only 3 out of 10 young Virginians are in college compared to a national average of 5 out of 10, when

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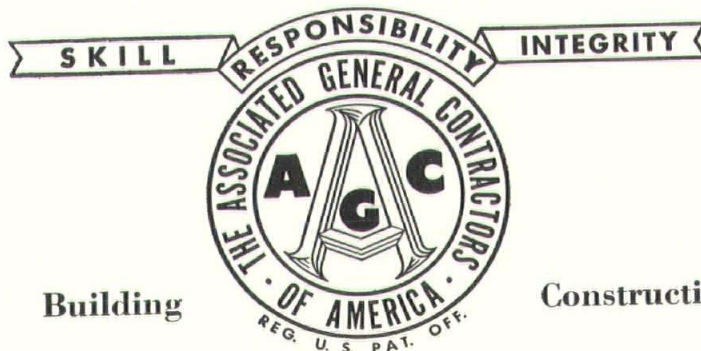
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(From page 99)

one out of every 4 goes out of State for his degree, when college enrollment in Virginia will double by 1977, when there is a waiting list at every one of our mental hospitals, there is no doubt of the need," he said.

"And if the buildings are needed, then the bonds are needed to finance them."

In paying tribute to the community for its own contributions to the college, the Governor said its people were recognizing that progress in the private economy and the progress in public services must go hand in hand.

PRODUCERS COUNCIL ELECTS

Tucker is Named Director

■ Robert W. Williams, manager, Product Planning, Plumbing & Heating Division, American Standard, Inc., New York, N. Y., was elected for a one-year term as president of the Producers' Council during the Council's 47th Annual Meeting & Chapter Presidents' Conference at the Hotel Ambassador in Chicago.

Williams succeeds Earl F. Bennett, manager, Architectural Sales, Koppers Company, Inc., Pittsburgh, who has served as Council president for two successive one-year terms.

Four other officers and 12 directors also were elected or re-elected at the meeting. Over 300 marketing representatives of Producers' Council member companies attended. Theme of this year's meeting was "The Construction Industry — Where Is It Headed?" Speaker presentations, a panel discussion, a marketing forum and other agenda items were oriented to this theme.

Other Council officers elected were:

First Vice President — Robert B. Darling, executive sales director Automatic Temperature Control & Air Distribution Division, Barber-Colman Company, New York, N. Y.

Second Vice President—Edward L. Kimball, sales promotion manager—Wood Products, Georgia-Pacific Corporation, Portland, Ore.

Secretary — Charles E. Dill, merchandising manager, Flooring Products Division, Building Products Group, The Flintkote Company, East Rutherford, N. J.

Treasurer—C. H. Topping, development manager for building products,

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Darling and Kimball were elected to officer posts for the first time, after having served previously as directors.

Directors elected for two-year terms were:

Charles R. Carroll, Jr., manager, Specifier Market Development, United States Plywood Corp., New York, N. Y.; M. P. Komar, general manager of sales, Engineered Products Division, Inland-Ryerson Construction Products Co., Milwaukee; A. Naughton Lane, president, Monarch Metal Weatherstrip Corp., St. Louis; Charles S. LeCraw, Jr., general manager, Construction Marketing, United States Steel Corp., Pittsburgh; Otis M. Mader, president, Alcoa Building Products, Inc., Pittsburgh; David O. Mills, vice president-Sales, The Mills Company, Cleveland; E. Everett Pierce, Jr. manager, Commercial Engineering Department, H. H. Robertson Company, Pittsburgh, Pennsylvania; Jesse M. Shaver, president, American Air Filter Company, Inc., Louisville; Robert E. Simpson, manager, Sales Engineering, Bethlehem Steel Corporation, Bethlehem, Pa.; and Theodore D. Wakefield, Chairman of the Board, ITT

Wakefield, Vermilion, Ohio.

Elected for one-year terms as directors were Roy E. Mayes, Sr., president, Carthage Marble Corporation, Carthage, Mo., and Beverley R. Tucker, Jr., president, Buckingham-Virginia Slate Corporation, Richmond, Va.

Mills, Simpson and Tucker all are new to director posts. The others are incumbents, former Council officers, or both.

Nine other Council directors are currently in office but were not up for re-election.

* * *

Beverley R. Tucker, Jr., who was elected for a one year term as a Director of Producers' Council during the Council's 47th Annual Meeting in Chicago, is President of Buckingham-Virginia Slate Corporation, Richmond.

Tucker joined the Buckingham-Virginia Slate Corporation, as Sales Manager in 1950, became President in 1955 and presently holds that position. He is also a member of the Board of Directors of the Arvon-Buckingham Slate Company, Inc.

The Producers' Council is an affiliate organization of the American Institute of Architects with national

headquarters in Washington, D. C. Tucker is also a Director of the Guild for Religious Architecture, another affiliate of the American Institute of Architects with headquarters in Washington, D. C. He also has served as President of the Exhibitor's Council of the Guild for Religious Architecture and is presently on that Board. Tucker is a past President of the Building Stone Institute with headquarters in New York City and is now serving on the Board of Governors, of that organization. He has also served as a member of the Board of the Allied Stone Industries. Tucker attended McGuire's University School in Richmond and the University of Virginia. He obtained the rank of Major as a pilot in World War II and before joining the Buckingham-Virginia Slate Corporation he was associated with the Warwick & Leglar Advertising Agency in New York, and Lindsey & Company Advertising in Richmond. He is married to the former Elizabeth Sloan of Richmond and they have three children Beverley Randolph Tucker, III, now serving with the Armed Forces in Germany; Elizabeth Austin Tucker, living in Richmond and Thomas Tudor Tucker attending Ferrum Junior College.

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“ARCHITECTURAL & ENGINEERING NEWS” HOLDS FIRST IN SERIES OF SEMINARS

■ The “Liability” of architects and the “Communication” between them was the topic of discussion in the first of a series of seminars held by the editors and publisher of *Architectural and Engineering News* in Chicago this June. These topics were chosen to headline the program because of the changing legal climate brought on by recent court decisions and technological advances in products, systems, and their applications and because existing lines of communication have been found insufficient to meet the needs of the principals — owner, architect, manufacturer, contractor, and advertiser. Liability and communication are closely linked and of the utmost concern, now more than ever before, to all those making their living in the construction industry.

The distinguished panel members representing the architectural profession were: Edward K. Schroeder,

Specifications Consultant, Past President of the Chicago Chapter of CSI; John H. Schruben, Head of Specifications, Skidmore, Owings & Merrill, Chicago; Jack D. Train, Executive Vice President, Metz, Train, Olson & Youngren, Inc.; George M. White, Chairman, AIA Committee on Documents; Wesley Wieting, Head, Central Resource Department, The Perkins & Will Partnership; Philip Will, Jr., Partner, The Perkins & Will Partnership.

Representing producers on the panel were the following equally distinguished individuals: Charles R. Carroll, Jr., Manager, Specifier Market Development, U. S. Plywood; Earl E. Ellwood, Manager, Architectural and Construction Services, United States Gypsum Company; Michael P. Komar, General Sales Manager, Inland Steel Products; David S. Miller, Senior Vice Pres-

ident, The E. F. Hauserman Company; Richard D. Wilson, Assistant General Sales Manager, Johnson Service Company; George J. Ziverts, Manager, Concrete Products Section, Portland Cement Association.

Mr. Stephen Kliment, Editor, A&E News, moderated the seminar and hosted the informal luncheon that followed.

Of particular interest to members of the architectural profession were suggestions made by panel members for programs to improve the industry. Dealing with the liability problem, George White observed:

“The question really is ‘Should not the construction industry find a way to get money into a pot so that we would not have to look for fault?’ We have this with Workmen’s Compensation. Nobody asks whose fault it is when a workman is injured in a manufacturing enterprise. We assume that as a society which has manufacturing as a part of its activity, a certain number of people are going to get hurt every year, so every manufacturer or every employer puts a certain amount of money into an ‘injury pot.’”

A question posed as to how to get responsible product information into the hands of architects brought this response from Charles Carroll:

“... the only definitive solution to this problem is automation, with product information stored in a central point and available through some kind of print out or counsel to each office on the basis of a computer utility.”

And Jack Train’s remark: “The AIA is interested in sponsoring some sort of a program to do this. With the liability problems getting more acute, it becomes more and more important.”

Philip Will: “Millions of dollars are currently being spent on applying data processing computers to medicine and hospital facilities. A doctor with a small practice has this kind of thing available to him. I think you can translate that rather easily into building center terms, if you can establish what you need and describe it, say in terms of symptoms, and go to the retrieval center. You may then get the products that would meet the conditions which you have established. It would have to be on a national or international scale, and this could be extremely useful to every size office.”

Is there a way to develop universal specifications to be used uniformly on the job, and if so, can it work effectively?

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Charles Carroll: "A number of years ago, a large client in the East, who does a considerable amount of building, was faced with this problem. They had two or three particularly sticky trades. One glazed tile, one metal windows, and one doors and hardware; and they called in three representatives from each of what they thought were the most reputable manufacturers in each group, and developed a detailed performance specification for each of the materials involved. They then bid these products on a regular basis using this performance specification which has a signed approval by each manufacturer's representative and a representative who was senior enough to be able to speak knowledgeably for the company. I sincerely believe that this particular owner, the Baltimore City School Board, has eliminated the problems in these particular areas. They also insist that each manufacturer, when they bid the job, certify that the material is in accordance with the specifications. This has created very little, if any, problem. It has suddenly made honest men out of every bidder that they have gotten in these particular trades. And, it always amazes me why these steps are not taken by any architect

and by any owner who is faced with a similar problem. If the manufacturer is reluctant to so certify, it would seem to me that he is automatically disqualifying himself from the job involved."

Liability and communication problems have generated universal concern within the building industry. Therefore, the purpose of this seminar was to explore from different viewpoints the directions and extent of the problems and perhaps evolve some useful guidelines for dealing with them.

A&E News plans editorial coverage of this and all future seminars. A&E News, the source of architectural technology, will continue to be the catalyst for more productive communication within the building industry.

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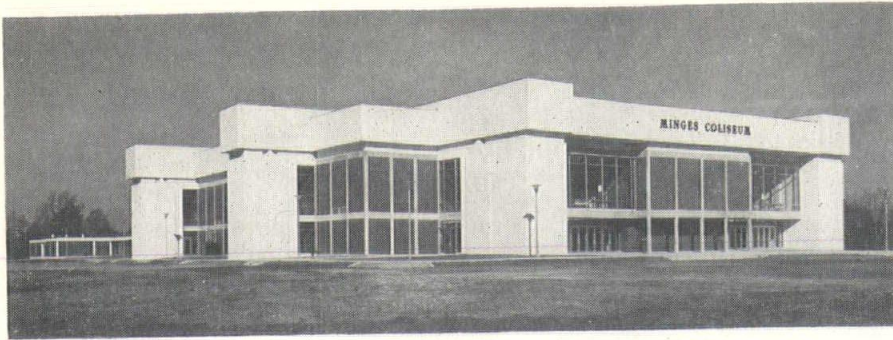
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AISC-1968 Award Winner



■ The Minges Coliseum at East Carolina University, Greenville, N.C., has been selected as one of the 15 outstanding steel framed structures in the U.S. in 1968.

On September 18, Dr. Leo Jenkins, President of E.C.U. received the 1968 Architectural Award of Excellence presented by John K. Edmonds, Executive Vice President of the American Institute of Steel Construction (AISC). Members of the Minges family attended the 11:00 A.M. presentation, which was followed by a luncheon at the Greenville Country Club.

In addition, F. Carter Williams, architect; Kahn and Furbush, structural engineers; and Dickerson, Inc., general contractors received citations for their part in this outstanding project.

Peden Steel Company of Raleigh, N.C. supplier of the structural frame for the Minges Coliseum received the Certificate of Commendation from the company's trade association, the AISC.

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**Work Continues
 on Delineating
 Planning Districts**

■ T. Edward Temple, Director, Division of State Planning and Community Affairs announces that the Division continues to work on its assignment to delineate Planning Districts in Virginia. Planning Districts are groups of counties, cities, and towns authorized to organize and staff Planning District Commissions. State law requires the Division to delineate Planning Districts by December 31, 1969, but the Division expects to have Planning District Boundary recommendations ready before this time. The target date is July 1, 1969.

The next step in the Division's program for developing boundary recommendations, is a visit with all local governments eligible to join a Planning Commission. One hundred fifty-nine meetings have been scheduled. Every county, city, and each town of 3,500 or more will be visited. The meetings are slated to begin on October 14 and will be completed by late November. Four teams of Division Personnel have been organized to conduct these meetings. Tight time limits will require teams to conduct three meetings a day — mornings, afternoons, and evenings.

The purpose of the meetings is to get the reaction of local governments to the state's new Planning District laws, and to find out from local officials which adjacent governmental units share

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common interest problems and opportunities with their own. The law requires that all areas of the state must be included in a Planning District.

After this round of meetings the Division will develop its proposals for Planning District boundaries. Public hearings will begin early next year to test reactions of the general public to the proposed Planning Districts. When public hearings have been concluded, the Division will make its final recommendations on Planning District boundaries and announce the results to local governments throughout the State.

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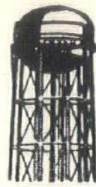
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How to be Functional Without Trying

(Continued from page 5)

sense of cramped space nor sterility. All visitors agreed that *this* functionalism showed what could be done, while remaining entirely indigenous to the environment. Off this main block of the house was a smallish master bedroom, with handsome and practical closets and drawer-space. In a wing were five additional bedrooms, all sleeping two persons. None of these rooms was large or elegant, but each was designed for comfort, with a sense of snugness rather than of utilization of every inch.

From our enchantment with this house, we observed others of the newer houses, especially those that served the dual purpose of year-round occupancy and summer rental. The majority possessed the same qualities of being indigenous, roomy and pleasing. When I lived in Southern Arizona, I observed the same basic quality of indigeneness in the houses. Perhaps in a specialized environment, such as the desert or on the ocean, the dwellers are forced to build with the climate and the pattern of life in mind. Thus, with no self-conscious architectural design of being indigenous, by applying the techniques of architecture to building adaptively for a special environment, an indigeneness results. A Moorish castle or a tortured severity of glass would so obviously not do at the beach or on the desert that the architect is forbidden by conditions from experimenting in materials and designs for the sake of experiment.

In the older (pre-World War I) houses in the country in Virginia, one can find the same indigeneness to the conditions, with usually also a roominess with its sense of spaciousness. It is in the urban centers and the suburbs that the architects have enjoyed the privilege (and abused it) of making the experiments with an eye

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more on a prize for *avant gardism* than on fitting the building to its environment. There is some excuse for this in new suburbs, covering recent open spaces, as there were no existing neighborhoods against which the experiment could stand out like a monstrosity. But in the hearts of the older cities, in public buildings as well as dwellings and apartments, there is a hodgepodge of advanced new, conservative new, recently new but now old hat, characterless but serviceable buildings of the World War I era, and it is the occasional nineteenth and eighteenth century building, which has survived transformation into a parking lot, that now stands out in contrast to its neighbors.

It is certainly too late to do anything about saving the character of the urban centers, and in Richmond specifically the City Fathers are bent upon further demolition in order to erect a civic center of dubious purpose. Probably no one can suggest what the architect might do about all this, for, as he has to earn his living by his profession, much of the time he must bend his talents and tastes to suit the client. But with all the millions being spent on the problem of the urban centers, and the billions being contemplated, perhaps the architect in group action could offer some guidance — if only through protest — toward using the tax-payers' money in redesigning cities with the same consideration for the environmental conditions as are applied when, as at the beach, the environment forces this consideration — with very happy results.

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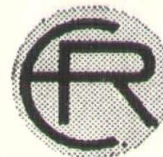
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INDEX TO ADVERTISERS

— A —

Ace Tile & Floor Coverings, Inc.....	87
Adamson Co., Inc.....	66
Ajax Co., Inc.....	109
Alexander Building Construction, Inc.....	80
Alliance Plumbing & Heating Co., Inc.....	64
Allied Glass Corp.....	68
Altavista Concrete Products.....	95
American Furniture & Fixture Co., Inc.....	90
American Granwood Flooring Co., Inc.....	41
Anderson & Cramer, Inc.....	71
Andrews Large & Whidden Inc.....	92
Andrews & Parrish.....	89
Arlington Woodworking & Lumber.....	97
The Asphalt Institute.....	12

— B —

Baker & Anderson Elect. Co., Inc.....	104
Barker Construction Co., Inc.....	109
Bell Industries, Inc.....	71
Beltway Construction Co., Inc.....	98
Binswanger Glass Co.....	50
Bluefield Hardware Co.....	83
Borden Brick & Tile Co.....	24
H. L. Borden Lumber Co.....	103
E. G. Bowles.....	106
Stanley W. Bowles Corp.....	94
Bowman Apple Products Co., Inc.....	103
Boyd & Goforth, Inc.....	90
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Bristol Steel & Iron Works, Inc.....	79
Brooks-Gray Sign Co., Inc.....	95
Brown-Mooney Building Materials Corp.....	92
Brunswick Lumber Co., Inc.....	112
Bryan & Beck, Inc.....	85
Buckingham-Virginia Slate Corp.....	18
Burruss Land & Lumber Co., Inc.....	89
J. E. Burton Const. Co., Inc.....	94

— C —

The C & P Telephone Co. of Va.....	3
The Walter E. Campbell Co., Inc.....	88
Campostella Builders & Supply Corp.....	94

Cannon Construction Corp.....	109
Central Electrical Service Corp.....	111
Central Valley Const. Co., Inc.....	78
Chesapeake Masonry Corp.....	96
Chewing & Wilmer, Inc.....	88
John D. Clayborne.....	92
Commonwealth Tiles, Inc.....	83
Consolidated Chimney Co.....	86
Continental Homes, Inc.....	61
Cooper Electrical Const. Co.....	105
Corte Construction Co.....	80
J. H. Cothran Co., Inc.....	111
J. W. Creech, Inc.....	90

— D —

Daniel Construction Co. of Va.....	68
John W. Daniel & Co., Inc.....	70
Danville Electric Co., Inc.....	110
Davenport Insurance Co.....	89
Davis & Spiers, Inc.....	52
Joe M. DeShazo Roofing Co.....	84
Dominion Elevator Co.....	111
Dominion Tank & Iron Co., Inc.....	107
T. B. Dornin-Adams Co.....	99
Doyle & Russell, Inc.....	100
R. L. Dresser, Inc.....	107
J. C. Driskill, Inc.....	83

— E —

Early Electric Co., Inc.....	87
Eastern Building Supply Co., Inc.....	100
S. Wallace Edwards & Sons.....	104
Electric Service Co.....	69
Electrical Contracting Corp.....	90
J. T. Eley, Jr.....	110
Davis H. Elliot Co., Inc.....	96
Sam English, Inc.....	88
P. E. Eubank & Co.....	48
J. B. Eurell Co. of Va.....	94
C. H. Evelyn Piling Co., Inc.....	96
Ezekiel & Weilman Co., Inc.....	44

— F —

Bill Fabry Reproduction & Supply Corp.....	103
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Frye Building Co.....	54	J. P. Long Co.....	109
Fred B. Fuqua.....	90	H. A. Lucas & Sons, Inc.....	48
		Lynn Electric Co., Inc.....	9
		Stamie E. Lyttle Co., Inc.....	103

— G —

Garber's Inc.	95
General Shale Products Corp.....	102
General Stone & Materials Corp.....	47
Gilmore Plant & Bulb Co., Inc.....	106
Howerton Gowen Co., Inc.....	106
Gregory Construction Co., Inc.....	90
D. W. Gregory	71
H. C. Gundlach Co.....	80

— H —

Hale Electric Co., Inc.....	66
Hammond Masonry Corp.....	38
Milton L. Hammond, Inc.....	96
Hankins & Johann, Inc.....	101
Thomas Harris & Co.....	93
Hesse & Hurt, Inc.....	94
Hicks & Ingle Co. of Va., Inc.....	54
Hobbs Engineering Co.....	92
Holmes Steel Co.....	110
W. F. Hoy	80

— I —

Incinerators, Inc.	108
Industrial Decking & Roofing Co., Inc....	80

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Jordan Insurance Agency, Inc.....	9

— K —

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Knight & Brinkley Farm Supplies.....	85
Koger & Wade Manufacturing Corp.....	64

Korok	108
Kurfees Paint Co.....	72

— L —

Lane Bros., Inc.....	84
R. E. Lee & Son, Inc.....	100
LeFort & Strite Associates, Inc.....	6
Locher Brick Co., Inc.....	68
J. P. Long Co.....	109
H. A. Lucas & Sons, Inc.....	48
Lynn Electric Co., Inc.....	9
Stamie E. Lyttle Co., Inc.....	103

— M —

Majestic Hotel	78
W. R. Manchester, Inc.....	64
Manos-Barber	103
Robert R. Marquis, Inc.....	70
Marshall Ready Mix Co.....	107
Marsteller Corp.....	50
Martin Tile & Marble Co., Inc.....	52
Masonry Contractors, Inc.....	86
Frank B. McAllister, Inc.....	94
McClain Printing Co.....	82
McClung Lumber Co., Inc.....	69
Edward F. C. McLaughlin & Co.....	2
McPhatter & Son.....	112
Mechanical Projects, Inc.....	105
Metropolitan Engraving & Electrotype Co., Inc.	99
Mid-State Tile Co.....	30
Miller & Anderson	92
Miller Manufacturing Co.....	44
Mimsco Steel Corp.	108
Modern Decorating, Inc.....	28
C. R. Moore.....	89
Mortgage Investment Corp.....	82
Mountcastle Lumber Co., Inc.....	86
Myers & Whitesell.....	92

— N —

Natural Slate Blackboard Co.....	99
Nielsen Construction Co., Inc.....	81
New River Electrical Corp.....	105
Thomas E. Nuckols	84

Central Electrical Service Corp.

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— O —

Ocean Electric Corp.....103
B & G Olsen-Div. of Natkin & Co.....104
Oliva & Lazzuri, Inc. 93

— P —

Paving Equipment & Products Co., Inc. 72
The Petersburg & Hopewell Gas Co.....105
Petroleum Marketers, Inc..... 68
Pittsburgh Plate Glass Industries, Inc.... 4
Pleasants Hardware 7
Portland Cement Ass'n..... 9
Prillaman & Pace, Inc..... 48
The Producers' Council
(Richmond Chapter) 57
Progressive Products Corp. 90
Prospect Industries, Inc..... 85
Pete Puryear111

— R —

Rabe Electric Co., Inc.....109
Rappahannock Products, Inc..... 106
Raymond Concrete Pile Division 61
David A. Reed & Sons, Inc.....107
Richardson-Wayland Electrical Corp.... 70
Richmond Ready Mix Corp..... 69
Roanoke Wood Preservers..... 96
H. H. Robertson Co. 23
John W. Rosenberger & Co., Inc..... 48
Rowland Electric Co., Inc. 84
R. Stuart Royer & Assoc..... 96
Thomas Rutherford Bonding &
Insurance 91

— S —

S. & W. Steel Co., Inc..... 48
Sanford Brick & Tile Co..... 57
E. H. Saunders & Sons, Inc..... 94
Sealtest Dairies, Inc. 28
Sharpe & Hamaker, Inc..... 44
Shaw Paint & Wallpaper Co., Inc..... 80
Shenandoah Valley Produce Co., Inc.... 82
Shockey Brothers, Inc. 7
J. L. Smith Corp.....109
Leonard Smith Sheet Metal &
Roofing, Inc. 94

BRUNSWICK LUMBER CO., Inc.

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Grade Mark
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Snow, Junior & King, Inc..... 87
South Norfolk Bridge Commission, Inc... 85
South Roanoke Lumber Co..... 48
Southern Materials Co., Inc..... 66
Southern Photo Print of Va., Inc..... 52
Southside Manufacturing Corp. 88
The Staley Co., Inc..... 7
Stonnell-Satterwhite, Inc. 84
W. H. Stovall & Co., Inc..... 54
Stran-Steel113
Hughes & Dalton Construction Co.
Modern Buildings, Inc.
Norfolk Iron & Wire Works, Inc.
Steel Enterprises, Inc.
Street & Branch, Inc. 52
Strescon Industries 8
Sutton Co., Inc.110
Clarence E. Swain Tile Co.....112

— T —

Talley Neon & Adv. Co..... 98
Tate & Hill, Inc..... 52
Tauscher Roof Deck Co.108
Taylor & Parrish, Inc..... 93
Eugene Thomas Construction Co..... 87
Thompson's Ready-Mix, Inc..... 78
Tidewater Materials Corp..... 84
Tobacco City Wholesale Co.
of Cliff Weil, Inc..... 70
Coleman Trainor & Co..... 96
Trasco 98
Trovato Electric Co., Inc..... 48
Tune & Toler, Inc. 86

— U —

U. S. Steel..... 11

— V —

Valley Roofing Corp.....112
Virginia Blower Co.....103
Virginia Gas Council..... 34
Virginia Glass Sand Corp..... 93
Virginia Roofing Corp..... 97
Virginia Sprinkler Co., Inc..... 96

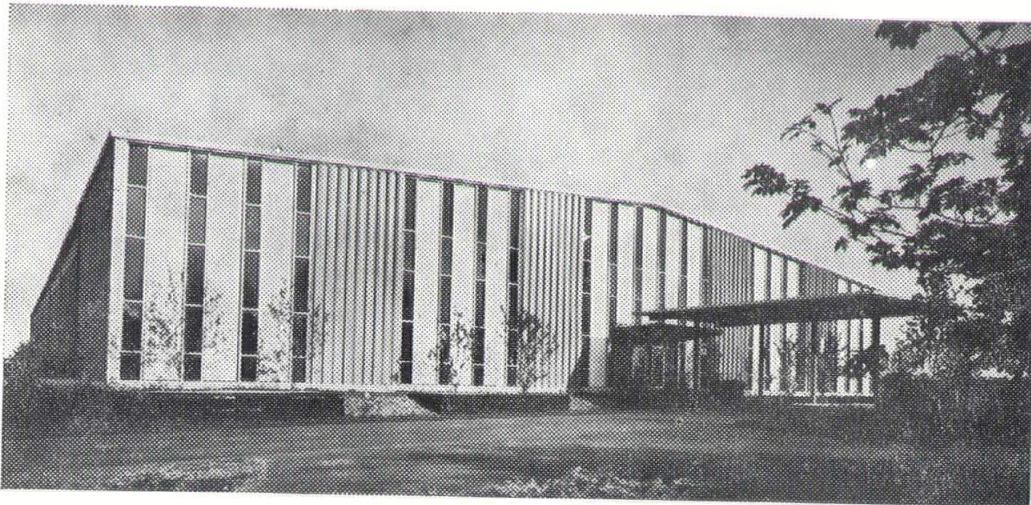
— W —

Walthall Construction Corp..... 91
Watts & Breakell, Inc.....108
Wayne Construction Co., Inc.....108
Waynesboro Nurseries 88
Weather Dial 93
Weaver Bros., Inc..... 92
Westbrook Elevator Mfg. Co., Inc..... 44
Western Waterproofing Co., Inc.....107
Roy Wheeler Realty Co..... 83
William H. White, Jr., Inc.....106
Whitehead-Leach Construction Co..... 78
M. L. Whitlow, Inc..... 52
F. Graham Williams Co., Inc.....101
Willis & Willis, Inc..... 52
Wilson's Building Service105
F. Richard Wilton, Jr., Inc..... 16
J. A. Wilton, Jr..... 88
Winebarger Corp.110
C. W. Wright Construction Co., Inc..... 98
Wysor Electric Co., Inc..... 98

— Z —

Zirkle & Zirkle..... 90

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