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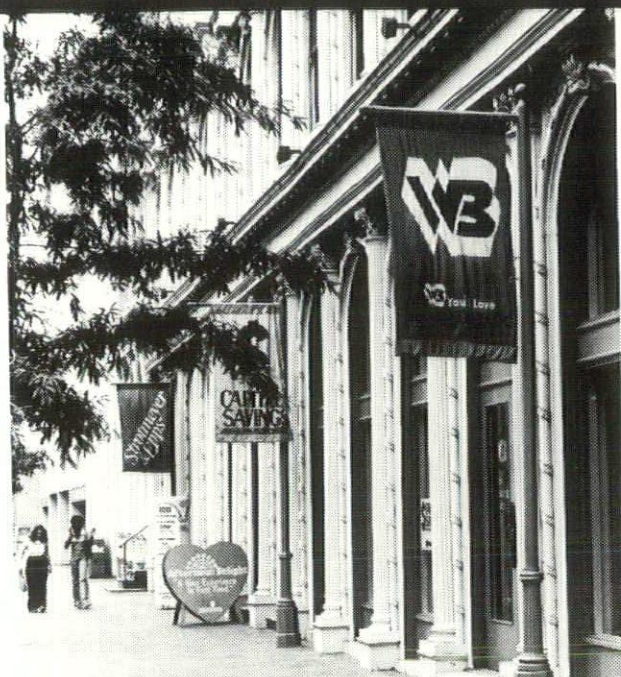


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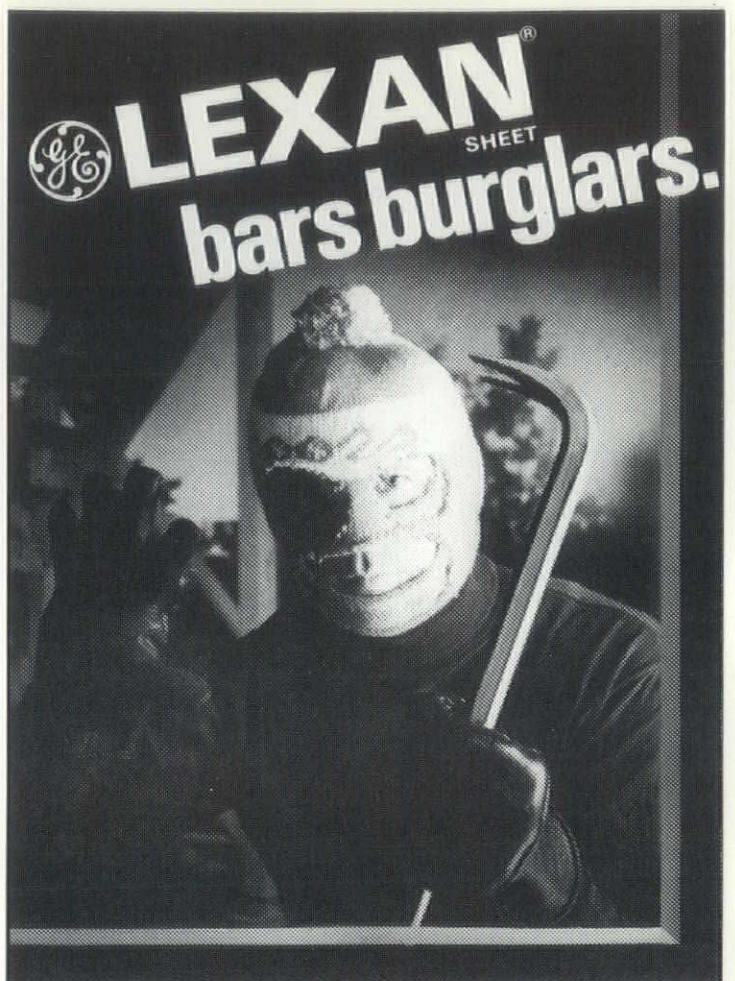


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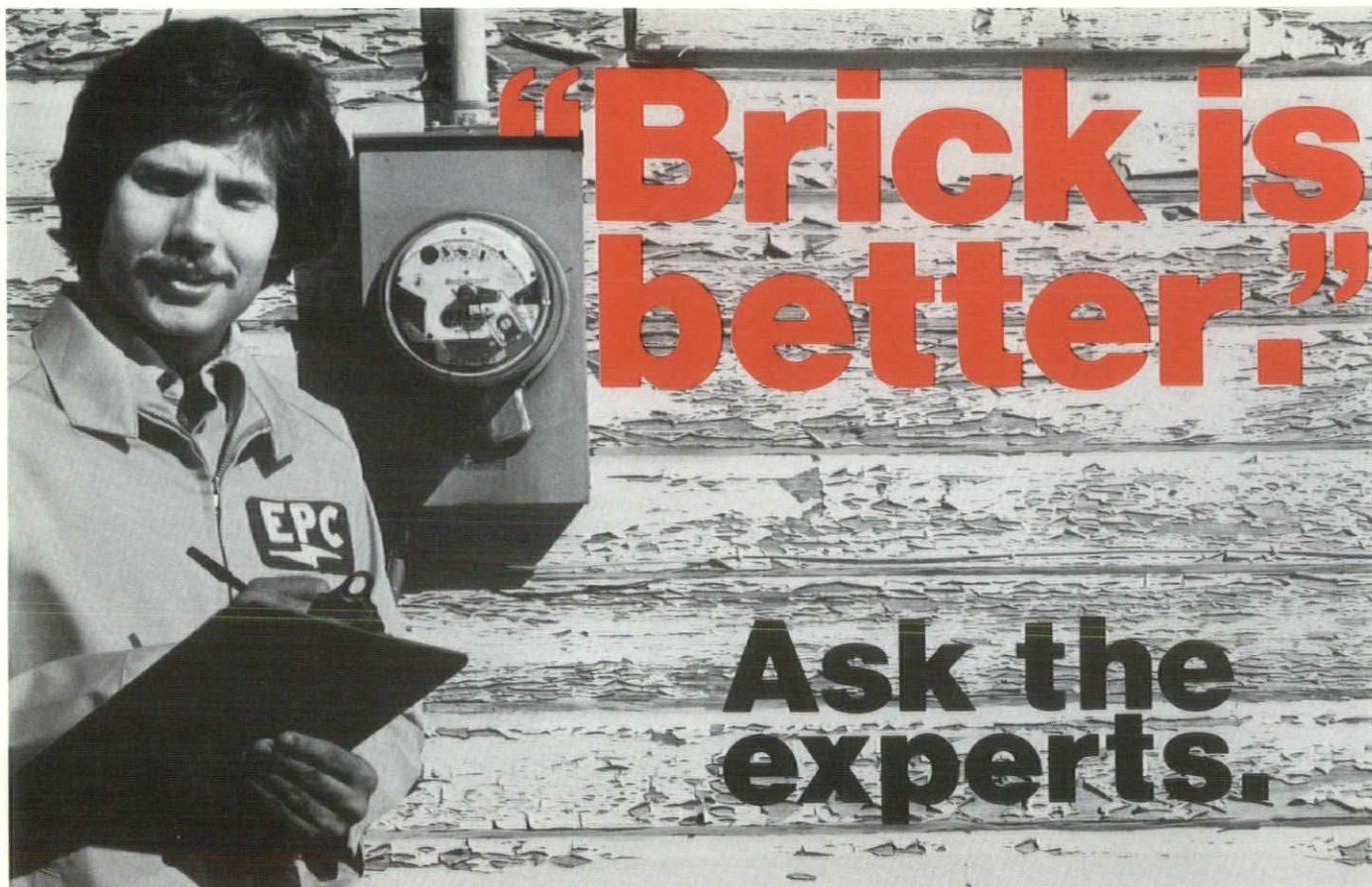
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## IN THIS ISSUE

Guest Editorial by Frederick E. Baukhages, IV .....7

### THE VIRGINIA ARCHITECT SECTION

AIA News .....9

#### FREEMAN & MORGAN, ARCHITECTS

Market Square, Brandermill .....10

#### PECK-PECK & WILLIAMS, ARCHITECTS

Potomac Hospital, Additions and Alterations .....12

#### SHERERTZ, FRANKLIN, CRAWFORD, SHAFFNER

Halifax-South Boston Community Hospital Additions .....14

#### JONES & STRANGE-BOSTON

Community Memorial Hospital, Extended Care Facility .....17

#### LYNWOOD BROWN, AIA & ASSOCIATES, INC.

The Wrens .....19

#### THE DESIGN COLLABORATIVE/LASZLO ARANYI, AIA

Sandler Residence .....20

#### BYRON R. DICKSON, ARCHITECT

Patterson Residence .....23

#### GLAVE NEWMAN ANDERSON AND ASSOCIATES, INC.

Group Homes, Roanoke and Richmond .....25

#### BROWN/RYON ASSOCIATES, LTD.

Church at Northern Virginia .....29

#### LAWRENCE COOK & ASSOCIATES, AIA

Messiah United Methodist Church .....30

#### MOSELEY-HENING ASSOCIATES, INC.

Southampton County High School, Vocational Addition .....32

#### FRAHER & HARRISON, ARCHITECTS

Randolph Boys' Club .....34

Branch, First National Bank, Emporia .....36

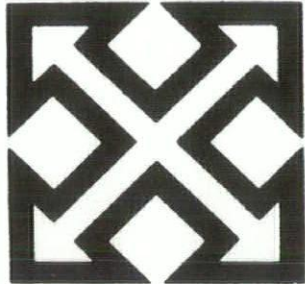
Travelers' Guide .....38

Index to Advertisers .....42

*ON OUR COVER is a view of Market Square the latest facility for the Brandermill Community. Designed by Freeman & Morgan, Architects, the project is featured on page 10 of this issue. (Photography, Llewellyn/Morgan & Assoc., Advertising, E. T. Revere and John Morgan)*



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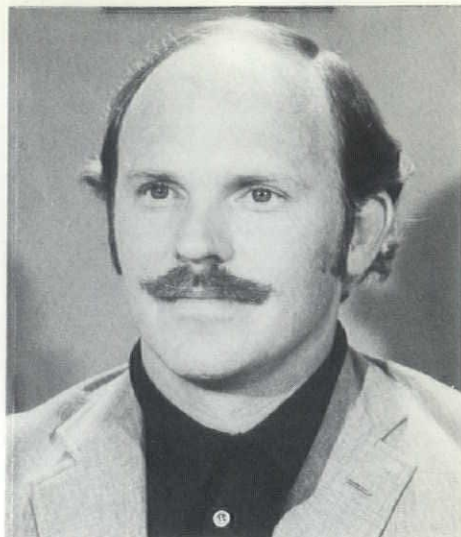
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By  
Frederick E. Baukhages, IV, AIA

## Some First Steps Toward Preventing Energy Waste

IT IS NOT NEWS to most that energy, both consumption and conservation thereof, is one of the prime motivating factors of life in the 1980s. Concern is already heightened about present and future availability of sources of heat, light, cooling, transportation fuel, and many other life support systems. This is particularly true for our built environment.

Most of our present life support and work support structures were built when energy conservation was not a prime consideration, in many cases not a consideration at all. The design, construction, and operation of these older buildings is, by today's standards, woefully inefficient. With the impending implementation of building energy performance standards or some other form of energy saving design criteria, buildings will be subjected to the same type of energy standards legislated for motor vehicles. Such regulation may be expressed in terms of materials, appliances, and techniques mandated for use, or it could set certain levels of performance which the architect and builder must meet through combinations of technology and creativity.

This latter solution is, of course, the more reasonable, since it allows for any technological advances which may occur—as well as the free applications of imagination by owners, architects, and builders. But whatever the solution adopted by the legislators, it is a certainty that buildings will have to improve their overall energy efficiency if we are to preserve any of our rapidly dwindling resources.

To reverse the squandering of energy at our current rate of between 30 and 50 percent in today's buildings, we should focus attention on three major areas of importance. Whether building, buying, or refitting a building, it is necessary to look closely at the building site, the materials used, and the insulation provided.

Before proper energy use became a topic of general concern, a building's site was often underrated. The design of the structure was usually more important, so the land around it was made to fit the building. Today, however, we are much more aware that the placement and orientation of the structure can contribute to both its esthetic appeal and energy efficiency. By using natural features like hills and vegetation as protective shields, we can reduce the need for artificial heat or cooling. Since north and west sides of a building in the northern hemisphere are subjected to the most wind, we can cut down on the numbers of doors and windows on these exposures. And, in colder climates, it is best to place major glass exposures to the south to make the best use of winter sun. Depending on the particular sites chosen, there are usually several other factors which can be used to good advantage.

Once the structure is situated, the choice of materials becomes a crucial factor. Everything from the type and color of paint to the actual shapes used in the design can have a bearing on a structure's efficiency. In warm climates, for example, light-colored roofing can help keep buildings cooler. Windows that open provide natural ventilation, and the use of shades, screens, and films over windows can have a dramatic effect on the amount of light and heat entering a space. The use of simple shapes, such as squares, circles, and octagons, provides much less exterior wall space in relation to floor area than some modern angular designs; thus simple shapes reduce heat loss. In many areas, using an attic ventilator reduces the need for mechanical cooling during periods of hot weather. In designing a structure, grouping of spaces with similar functions can contribute measurably to efficient "zoning" of the heating and cooling systems.

None of these considerations will be as effective, however, if the structure is improperly insulated. One very effective and simple way to test your insulation is to pass a lighted candle by seams which are supposed to be airtight. If the candle flickers strongly, it is time to consider weatherstripping, caulking, or full-fledged insulating. The first two can be accomplished by anyone with a modicum of mechanical ability, but the third may call for the services of a professional. The amount of insulation necessary to provide a structure with maximum protection without over-insulating is determined by a variety of factors, all of which can be boiled down to a rating called an "R-value." Having consulted with a knowledgeable person to determine the proper R-value for your home, it is possible to do some insulation on your own. Ceilings are relatively routine jobs, but walls and other interior spaces may require hiring of an insulation contractor, since there are a number of pitfalls to avoid. Even the cost of hiring someone to insulate exterior walls can prove efficient, since the energy savings can

(Continued on page 39)





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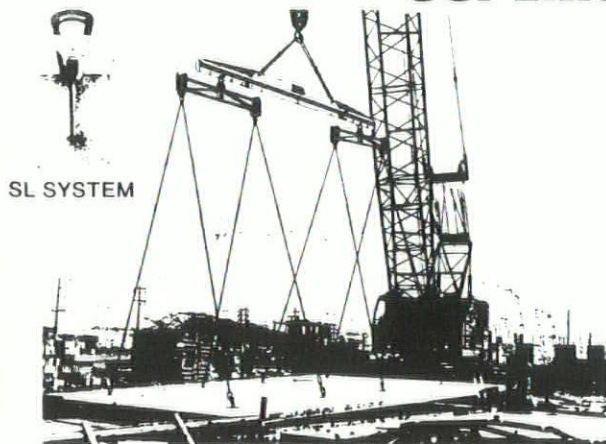
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# NEWS

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ARCHITECTS

## New Firm Opens Norfolk Offices

Weinstein Parker Architects, AIA, has opened an office for the practice of Architecture, Planning and Interior Design at 201 Granby Mall, Room 203, Norfolk, Virginia.

The principals of the firm are: Lawrence Weinstein, AIA and Anthony R. Parker, AIA.

They are members of The American Institute of Architects, The Institute for Urban Design, The National Trust for Historic Preservation and they hold Certification in The National Council of Architectural Registration Boards.

## Reducing Flood Damage Through Design

The AIA Research Corporation has begun a research study that may help alleviate the rise in annual losses due to flooding. Under a grant from the Federal Insurance Administration of the Federal Emergency Management Agency the AIA/RC project will survey and analyze flood issues, examine relevant case studies, and generate effective design strategies for easing flood damage.

The research project intends to address the needs of architects as key figures in designing the built environment in areas that are flood-

prone. Historically, flood damage mitigation efforts have been predominantly site-oriented with the architect's role limited to designing buildings for a specific parcel of land. Today, design considerations at many levels interact to influence decisions that affect the individual site and building. The architectural viewpoint should include an understanding of the full array of issues that determine flood hazards.

In addition to detailing the inherent characteristics of the flooding problem, the project will develop guidelines that focus on various concepts and techniques for adjustment to flood hazards. Six major kinds of adjustments already in common use are flood control measures, such as dams and levees; floodproofing with such techniques as elevating buildings and placing water-tight enclosures (applicable to new buildings and historic preservation); forecasting, warning, and preparing for emergencies; planning and managing land use; maintaining flood insurance programs; and providing relief and rehabilitation to ease flood damage.

To adopt this comprehensive approach, it is vital that the architect have a thorough knowledge of the characteristics of both the natural hydrologic system and the built environment, and, more important, of the interface between them. The potential for conflict in this interface is the crucial issue, and the AIA/RC study will focus on providing the architect with the information necessary for resolving conflicts.

The AIA Research Corporation, established by the American Institute of Architects in 1972, performs a wide variety of applied research projects on national issues related to built environment. The AIA/RC initiated a Hazards Program in 1975 with research that led to publication of a design primer, *Architects and Earthquakes*; a subsequent project developed seismic design guidelines for police and fire stations. Current projects include an analysis of building codes in relation to designing for multiple natural hazards such as earthquakes, fires, extreme winds, and floods, and energy conservation. The flood design project expands this hazard mitigation research program.

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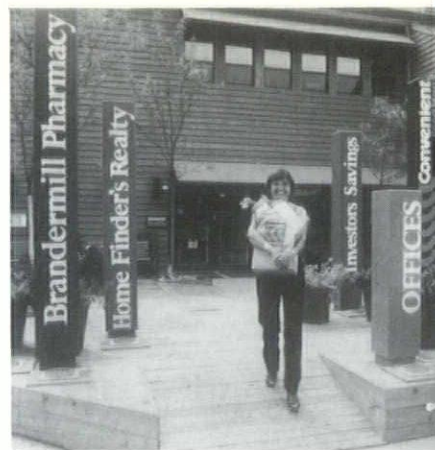
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## Market Square — Brandermill

Midlothian

**Freeman & Morgan — Architects**

Landscape Architect, Clarke Plaxco • Mechanical Engineer, Wagner & Jones Consulting Engineers  
Electrical Engineer, Wagner & Jones Consulting Engineers • Structural Engineer, Freeman & Morgan Architects • General Contractor, Heindl-Evans, Inc.  
Photography: Llewellyn/Morgan and Associates  
Advertising: E. T. Revere; and John Morgan.





Designed as an anchor for Brandermill's central commercial core, the Market Square Building provides retail and office space necessary to a total community. Unprecedented growth of the development had created a need for services that were absent in the area but were socially and economically desirable. Programming for the building attempted to fill these needs with an appropriate architectural solution that was compatible with Brandermill's design philosophy.

Construction of the project was handled with the Design/Build team concept which has recently found increasing favor with construction professionals. Freeman and Morgan, Architects coordinated the programming/planning efforts of the Brandermill Planning Office and the construction/contract administration work of Heindl-Evans, Inc., the general contractor. This arrangement, which kept costs down and accelerated the construction schedule, proved very satisfactory to the owner.

Additions to the shopping center are planned with Market Square providing the theme for future buildings. Texture, scale, and graphic treatment were established on this building and similar architectural expressions will be used to reinforce the idea of continuity for the entire shopping center. Ultimately, enough varied office and retail space will be provided to make the community self contained.

#### Retail Occupants

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Convenience food store  
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Cleaners  
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Community associates  
Clothing store

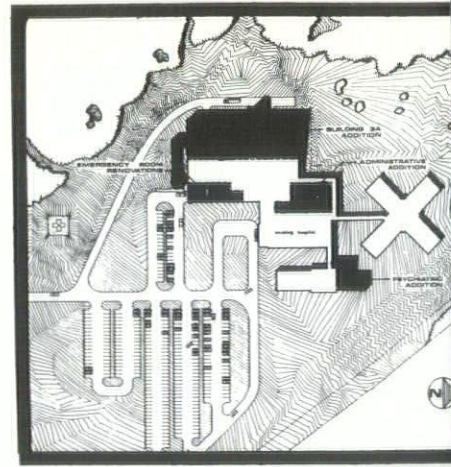
Heindl-Evans, Inc. of Richmond the general contractor also handled reinforcing, carpentry, structural wood, millwork, roofing, sheet metal and wood doors.

#### Subcontractors & Suppliers (Richmond firms unless noted)

Lone Star Industries, Inc., concrete supplier; Howard & Morgan, Inc., masonry contractor; Mack's Iron Co., Inc., Colonial Heights, steel supplier/joists & miscellaneous metal; E. S. Chappell & Son, Inc., caulking; Humac Co., wall insulation & foundation insulation; Binswanger Glass Co., glass & glazing contractor; J. S. Archer Co., Inc., metal doors & frames; Pleasants Hardware, hardware supplier; F. Richard Wilton, Jr., Inc., Ashland, gypsum board contractor; C. B. Smith, resilient tile & carpet; W. W. Nash & Sons, Inc., painting contractor; Worsham Sprinkler Co., Inc., Ashland, sprinkler contractor; M. R. Ellis & Sons, plumbing contractor; Mayhew & Chaulkley, Inc., Ashland, heating/ventilating/air conditioning contractor; and Sound Electric Co., electrical contractor.





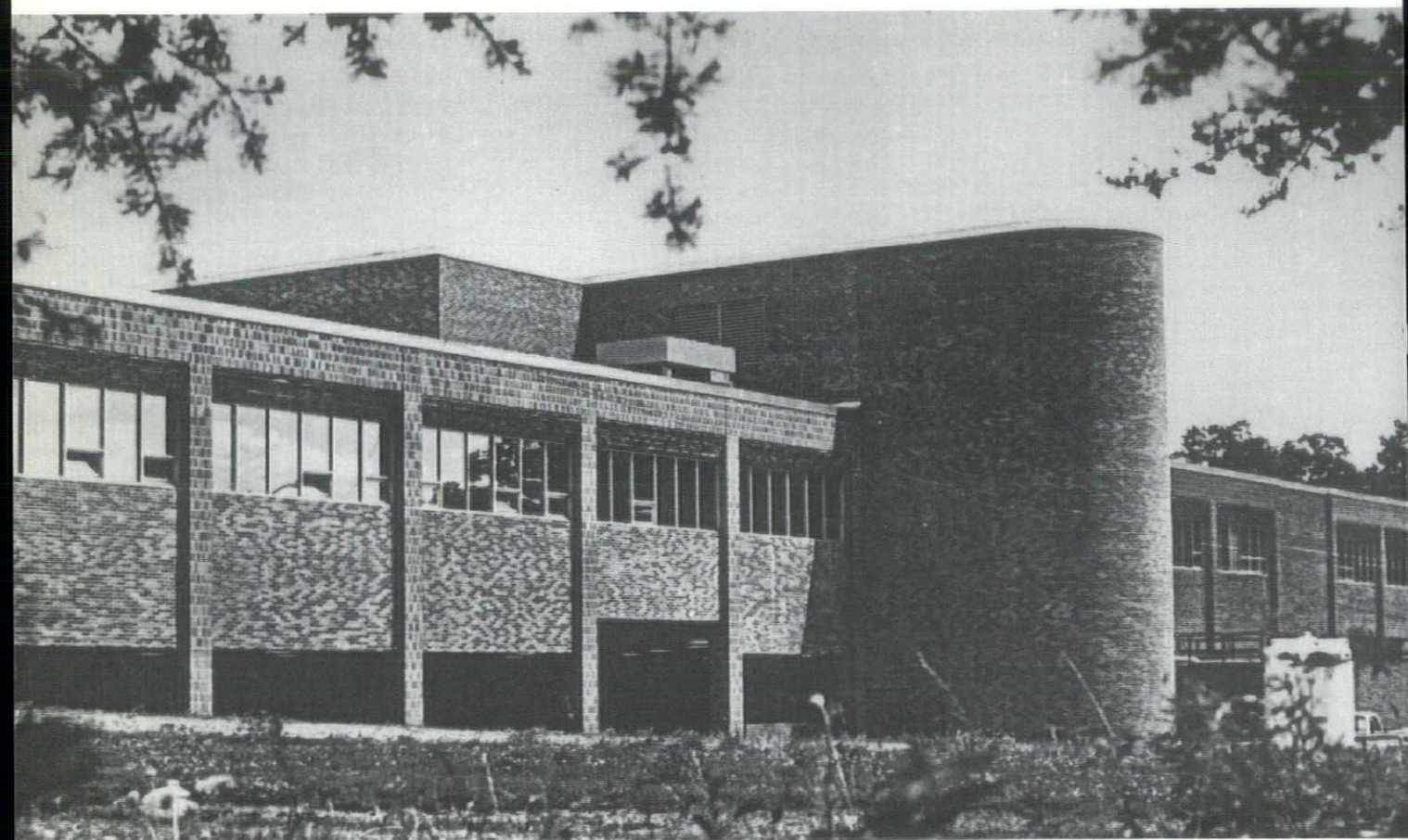


# Potomac Hospital

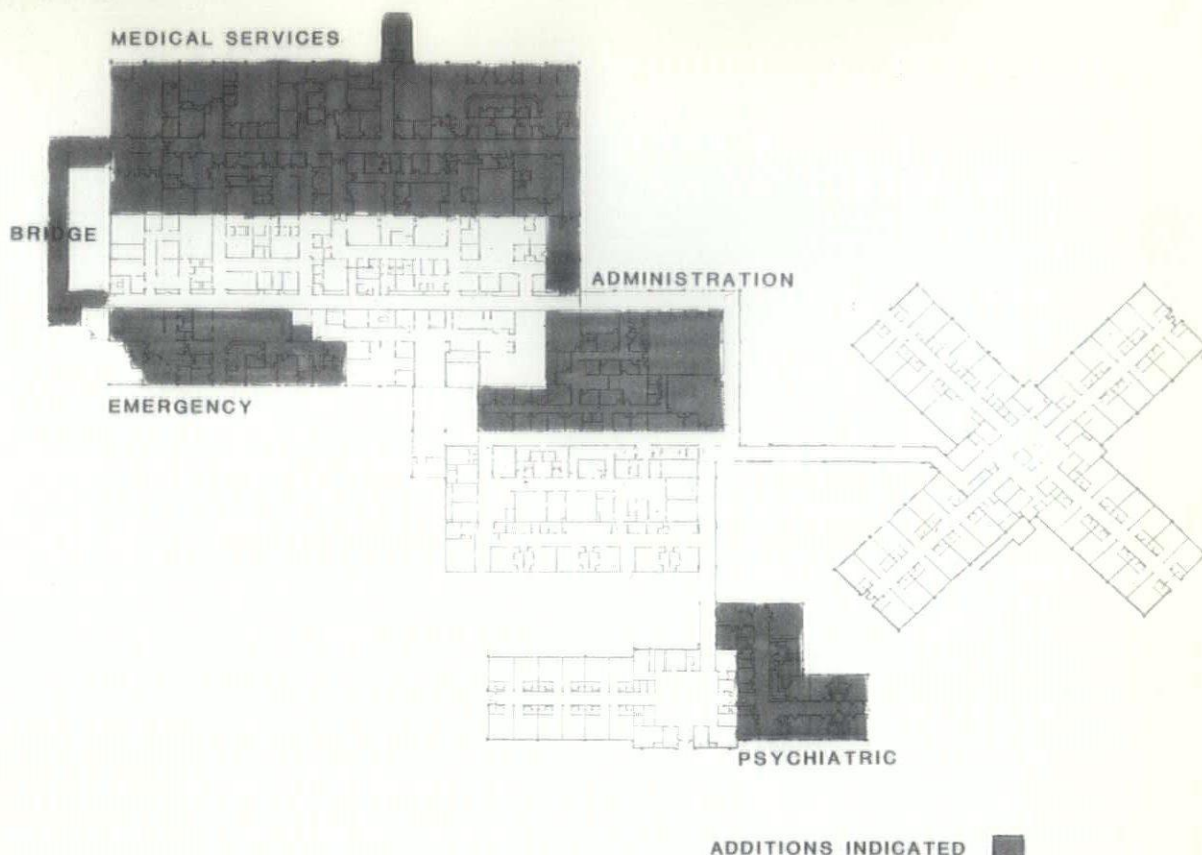
Additions & Alterations, Woodbridge

## Peck, Peck & Williams — Architects

Mechanical Engineer, Glassman-LeReche & Assoc.  
 PC • Electrical Engineer, Glassman-LeReche & Assoc.  
 PC • Structural Engineer, B.E.C. of Virginia, Inc.  
 Interior Design, Peck, Peck & Williams • General  
 Contractor, Wayne Construction Co., Inc. • Photo-  
 graphy, Greenwood Studios.







In 1977, Peck, Peck & Williams was hired to design additions to Potomac Hospital which would double its existing size: Administrative Addition 8,870 sq. ft.; Psychiatric Wing 5,320 sq. ft.; Building 3A 29,230 sq. ft.; Emergency Room, 6,190 sq. ft. At the same time, the board of directors entered negotiations with a "Finance-Build" company, Tandy, Inc. Because of scheduling, the architects were asked to complete design and working drawings in eight months. During that time, the design team used several techniques to keep construction cost down. At the end of this time, Tandy negotiated a price with the hospital board and the board thought it a good price.

The architects, feeling this price was much too high, recommended that the board put the job out to bids. The board was very concerned about the possibility of a higher bid price than their "guaranteed" bid. However, the designers were convinced, and persuaded the board to take the time to bid. The project was priced by five contractors and all bids came in below the "guaranteed price."

#### PROGRAM:

Expand the existing 50,000 sq. ft. hospital to meet the needs of a rapidly growing community. The hospital had to be kept operational including the emergency unit, at all times during construction.) The expansion includes:

1—A 12-bed Psychiatric Addition—including group therapy, conference rooms, occupational therapy, nursing station, offices, day room, kitchen and six sleeping rooms. This wing will eventually be converted to a detoxification unit when a larger psychiatric facility is built.

2—An Administrative Addition—enclose an existing courtyard and include offices for the administrator, two assistant administrators, secretaries, medical library, medical records, conference room, board room, auditorium, doc-

tors' rooms, intern room, miscellaneous offices and waiting room.

3—Medical Service Addition—this will include a new out-patient entry and waiting, out-patient registration, general records and accounting, radiology department, physical therapy, respiratory therapy, pharmacy, Intensive Care Unit, Cardiac Care Unit, expanded operating suite and new recovery rooms, and associated waiting rooms.

4—Emergency Room Expansion—expand emergency area after evacuation of existing administrative areas. Add four new beds, new nursing station, coronary room, cast room, holding room, special procedures, doctors' and nurses' lounges and lockers, and ancillary spaces.

5—Covered parking for doctors.

#### COST SAVING TECHNIQUES

1. REPETITIVE ELEMENTS: Structural members, bay sizes, window units are all the same.

2. BRICK DETAILING: The design was achieved by using brick forms and details (ie: corbelling, soldier and sailor coursing) instead of costly canopies, attachments, etc.

3. MOVABLE PARTITIONS WHERE POSSIBLE: Allowed ceilings and utilities to be put in all at once.

4. TAPPING INTO EXISTING MECHANICAL SYSTEM WHERE POSSIBLE.

5. DESIGNING TO MINIMALLY DISTURB EXISTING FACILITIES.

Wayne Construction Co., Inc. of Arlington was general contractor and handled excavating, sodding, seeding, etc., landscaping and landscaping work, foundations, concrete work, and carpentry.

#### Subcontractors & Suppliers

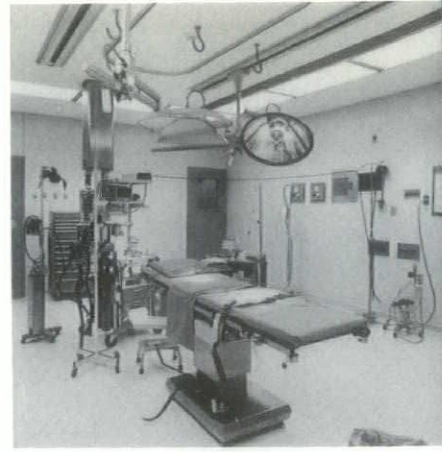
Dominion Caisson Corp., Alexandria, piling; Newton Asphalt Co., Inc. of Va., Alexandria, paving contractor; Bowie Steel Division, Bowie, MD, reinforcing; Virginia Concrete Co., Inc.,

Springfield, concrete supplier; Bonded Masonry, Inc., Clinton, MD, masonry contractor; L. C. Smith, Inc., Alexandria, masonry supplier & mortar; Piercy & Sutton, Inc., Baltimore, MD, steel supplier/erection/joints; R. D. Bean, Inc., Beltsville, MD, steel roof deck & built-up roof; W. & W. Fabrication, Inc., LaPlata, MD, miscellaneous metal & handrails; Arlington Woodworking & Lumber Co., Inc., McLean, millwork & wood doors; Architectural Components, Inc., Rockville, MD, cement asbestos paneling; B.C.D. Co., Weehawken, NJ, hospital casework; Prospect Enterprises, Inc., McLean, waterproofing; and Wilcox Caulking Corp. Lorton, caulking.

Also, Owens-Corning Fiberglas Corp., Washington, DC, roof/wall/foundation insulation; Woodbridge Glass Co., Inc., Woodbridge, glass, glazing contractor, windows & window wall; American Steel Products, Farmingdale, NY, metal doors & frames & storefront; Fries, Beall & Sharp Co., Springfield, hardware supplier; Anning-Johnson Co., Springfield, plaster contractor & gypsum board contractor; Standard Art, Marble & Tile Co., Inc., Landover, MD, resilient seamless; Acoustical Ceilings, Inc., Merrifield, acoustical treatment; Fairfax Tile & Linoleum Co., Inc., Springfield, resilient tile, carpet & special flooring; and Madison Decorating Co., Kensington, MD, painting contractor & paint supplier.

And, Michael Gordon Air Passage Equipment, Arlington, specialties; Graham, Van Leer & Elmore Co., Inc., Tyson's Corner, folding partitions; Dover Elevator Co., elevators; United Sprinkler Co., Inc., Alexandria, sprinkler contractor; Artisan, Inc., Vienna, plumbing contractor (American Standard fixtures), heating/ventilating/air conditioning contractor; Nationwide Electrical Construction, Gaithersburg, MD, electrical equipment supplier & electrical contractor; Kinnear Co., McLean, rolling grilles; and Ameray Corp., Dover, NJ, radiation shielding.





# Halifax-South Boston Community Hospital

South Boston

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Halifax-South Boston Community Hospital's recently completed addition was developed to house ancillary facilities for a hospital with a bed capacity of 300 patients—109 in the existing hospital, 48 in the new addition and, design provisions for the future addition of three floors containing 143 beds. One of the more unique features of the four million dollar structure just completed in South Boston, is that financing of the project was handled by Farmers Home Administration (FMHA)—an unusual arrangement brought about by some timely and aggressive work by Al Burkholder, Executive Vice President of Halifax Community Hospital.

An article in the *Wall Street Journal* about funds available from FMHA prompted Burkholder to apply for the money to build a new hospital in South Boston. After many letters, phone calls and personal visits with the proper authorities, Burkholder succeeded in getting his request approved, and now the first hospital in Virginia financed by FMHA is a reality. Burkholder shared his story with other hospitals, and some of them also have obtained financing from this unique source.

The new life-support areas housed in the new addition include: a four-room operating suite; an eight-bed recovery area; a ten-bed intensive care unit; laboratory facilities; and emergency areas.

These emergency areas are comprised of a waiting room, nurses' station, fracture room, minor operating room, and eight treatment rooms.

Primary exterior materials include: architectural precast concrete and bronze glass with anodized aluminum trim.

John W. Daniel & Co., Inc. of Danville was general contractor and handled foundations.

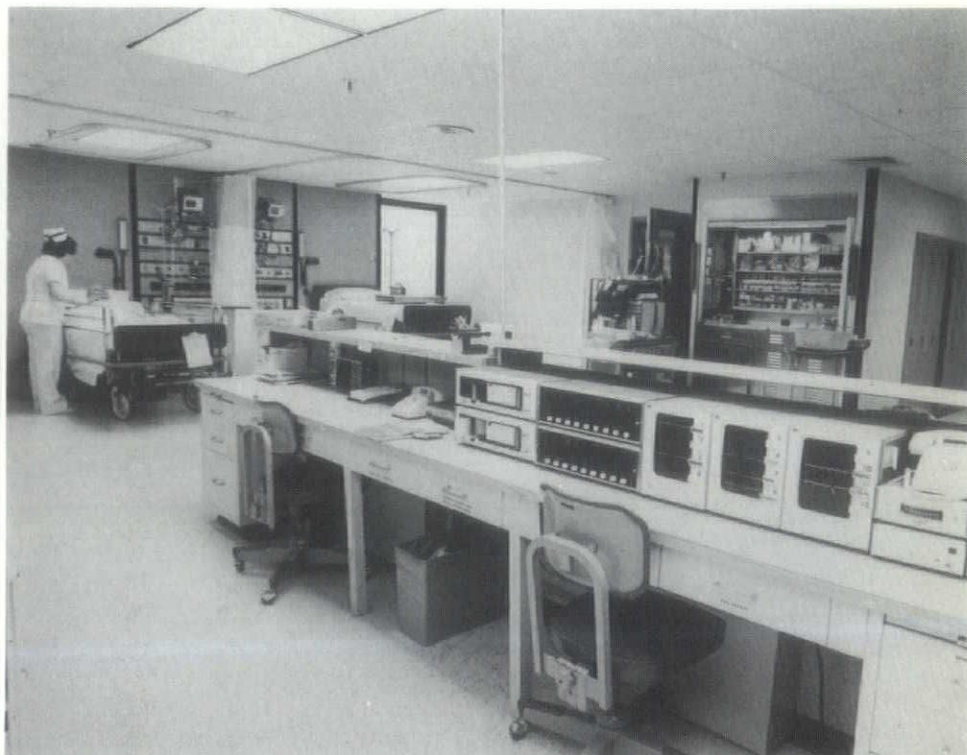
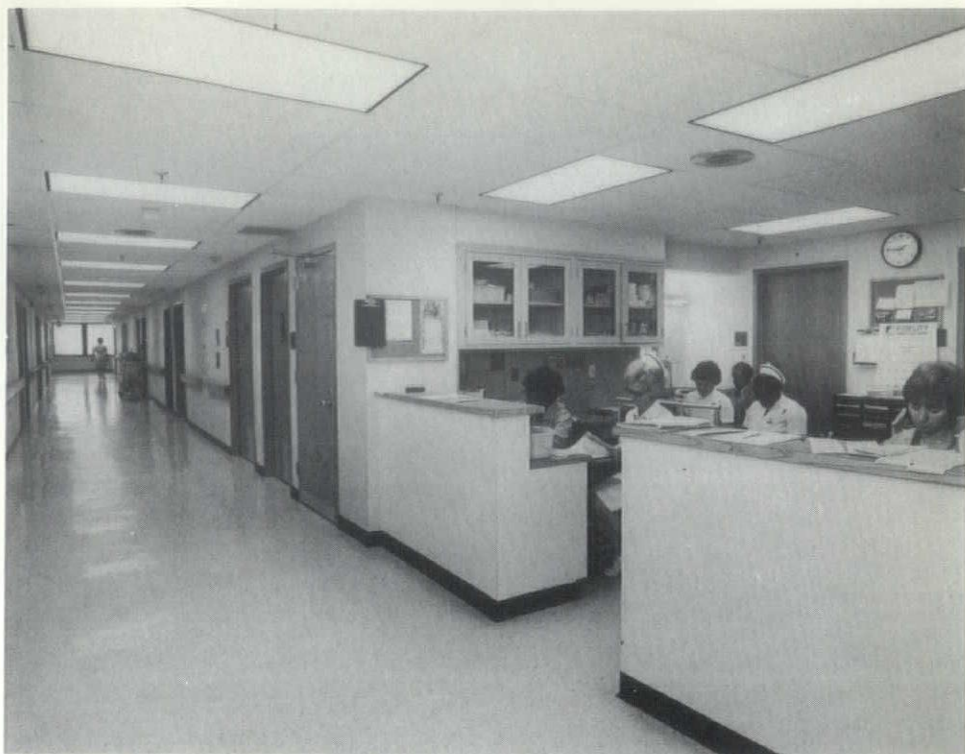
#### Subcontractors & Suppliers

Riverside Equipment Co., Danville, excavating; Thompson-Arthur Paving Co., Greensboro, NC, paving contractor; Felton Bros. Transit Mix, South Boston, concrete contractor/supplier; East Coast, reinforcing; Cast-A-Stone Products Co., Inc., Raleigh, NC, prestressed concrete; Boston Concrete, South Boston, masonry contractor/supplier; Carolina Steel Corp., Greensboro, NC, steel supplier & miscellaneous metal; Pridden Cabinet Works, Inc., Whiteville, NC, millwork, paneling & wood doors; and Seager Waterproofing, Inc., Greensboro, NC, waterproofing.

Also, I.N. McNeil Roofing & Sheet Metal Co., Inc., Roanoke, built-up roof & sheet metal; W.H. Stovall & Co., Inc., Roanoke, glass & supplied & installed windows; Williamsburg Steel Products, Williamsburg, metal doors & frames; Pleasants Hardware, hardware supplier; C. W. Kirkland Plastering Co., Charlotte, NC, plaster contractor; Stonnell-Satterwhite, Inc. (now H. E. Satterwhite, Inc.), Richmond, ceramic tile & terrazzo; and J. W. Squire Co., Inc., Danville, acoustical treatment.

Others were: Colonial Flooring and Acoustical Co., Inc., Durham, NC, resilient tile; Discount Carpet Center, Roanoke, carpet; Glidewell Bros., Inc., Richmond, painting contractor & wall covering; Roanoke Engineering Sales Co., Inc., Roanoke, specialties; Westbrook Elevator, Danville, elevators; Kannapolis Sprinkler Co., Kannapolis, NC, sprinkler contractor; J. H. Cothran Co., Inc., Altavista, plumbing/heating/ventilating/air conditioning contractor; and Bryant-Durham Electric Co., Inc., Durham, NC, electrical equipment supplier & electrical contractor.

Special Equipment: AMSCO, medical equipment; Greensteel, metal casework; and Portable Lab, laboratory equipment.





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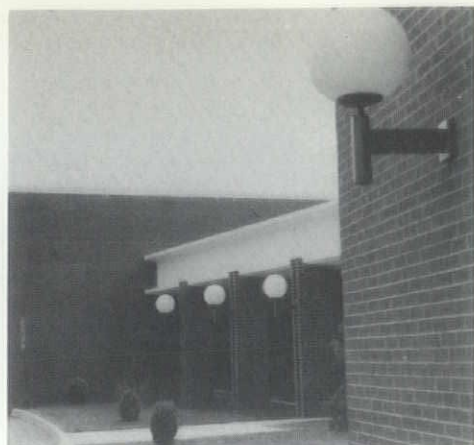
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## W. S. Hundley Annex

Community Memorial Hospital, South Hill

### Jones & Strange-Boston — Architects

Interior Design, Thomas W. Leggett • General Contractor, Kenbridge Construction Co., Inc. • Photography, Stevens M. Jones, AIA.

Community Memorial Hospital was planned and built by and for the people of Brunswick, Lunenburg, and Mecklenburg counties in 1954. Over the next 20 years a continuing growth program was implemented by the board and the administrator, Mr. Thomas W. Leggett, virtually doubling the size of the original building. The original hospital, as well as the subsequent additions to 1970, was designed by Ballou and Justice, Architects and Engineers.

In 1974, the hospital began development of a Nursing Care Wing to supplement the Acute Care Facilities already in place and provide a balanced spectrum of health care. Working with Jones & Strange-Boston, who had designed six

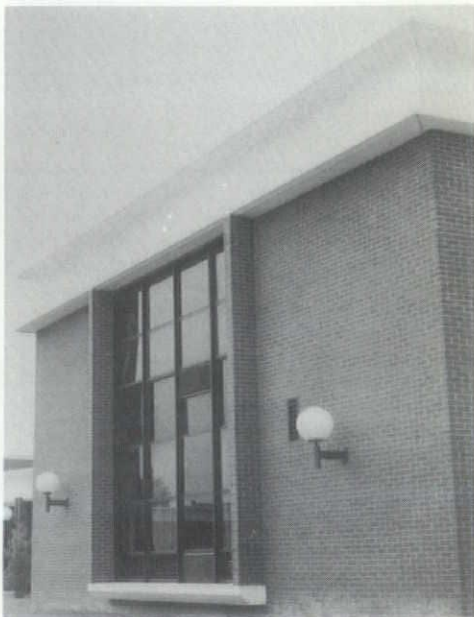
previous nursing homes, and with the Farmer's Home administration, which was interested in encouraging rural community development, construction was begun on the W. S. Hundley Annex in July 1976. The project provides 100 intermediate nursing care beds, 40 skilled care beds, laundry facilities, a complete cafeteria and all necessary therapy areas. An air conditioned glassed-in promenade connects the annex directly with the hospital so that the Acute Care Facility support is immediately and easily available to the Nursing Facility.

The architects selected a precast concrete system for both the bearing walls and the floors to aid in the speed of construction. While the

projected "21 days erection time" was not quite realized, substantial savings in time and ease of working conditions were achieved. The brick cladding is actually non-bearing, and so the scaffolding time was not a penalty. A precast concrete channel fascia is used to reduce the scale on the new building to accommodate the existing building and, with the repetitively used opal glass ball lighting fixtures, provides a dominant theme for future planned additions.

Interior colors and textures were selected to highlight informality, featuring residential shades to contrast with the institutionality of the hospital.

*(Continued on page 39)*





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## The Wrens

Wrens Way, Falls Church

**Lynwood E. Brown, AIA (Formerly Bushey-Burrey, AIA) — Architect**



Designers, Richard Schoppet, Assoc. Member AIA, CSI, AIDD and Donald Greenwood, Assoc. Member AIA • Landscape Architect, Gerald I. Rupert • Mechanical Engineer, Frank Williams • Structural Engineer, Bushey-Burrey • Civil Engineer, Walter L. Phillips, Inc. • Interior Design, James Reid • General Contractor, Creative Environments, Inc. • Photography, Richard Schoppet, Assoc. Member AIA, CSI, AIDD.

The Wrens — Cluster Townhouses & Carriage House Home, in Falls Church, are designed to harmonize with the surrounding historic homes. The cluster consists of thirteen units, one of which is a restored carriage house. Careful attention was given to details to achieve an accurate representation of American traditional architecture.

Unit No. 12 faces Broad Street between the historic Birch House (built in 1849) and an early period residence on the left.

The homes were designed to resemble a cluster of single-family residences, but with a village/townhouse effect. A wide variety of materials (slate, cedar, copper, and metal roofs) were employed in order to present authentic eclectic residences. Brick, wood, sidings, windows, doors, trim, stone, and brick-and-wood garden walls were detailed much as those seen in Williamsburg.

Most of the fully-matured trees were saved, and new landscaping, walks, exterior lighting, and terraces were designed to enhance the period architecture.

The historic Birch House is also being restored by the builder/developer, James W. Reid, Jr., Creative Environments, Inc. of McLean.

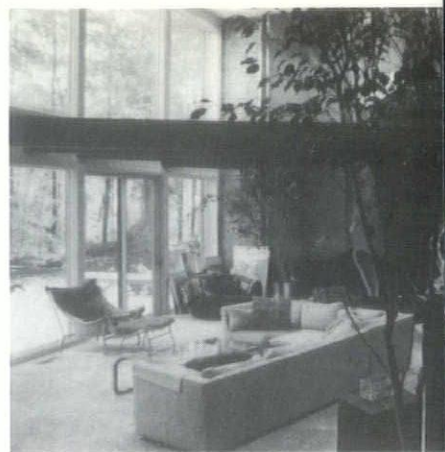
Creative Environments, Inc. of McLean, the builder/developer, also handled foundations, masonry work and carpentry.

### Subcontractors & Suppliers

D. I. Lyons Excavating Co., Sterling, excavating & paving contractor; Stadler Nursery, Laytonsville, MD, landscaping contractor; C. C. & G., Inc., Fredericksburg, concrete contractor; Virginia Concrete, Springfield, reinforcing; L. C. Smith, Inc., Alexandria, mortar; Ben Porto &

*(Continued on page 41)*





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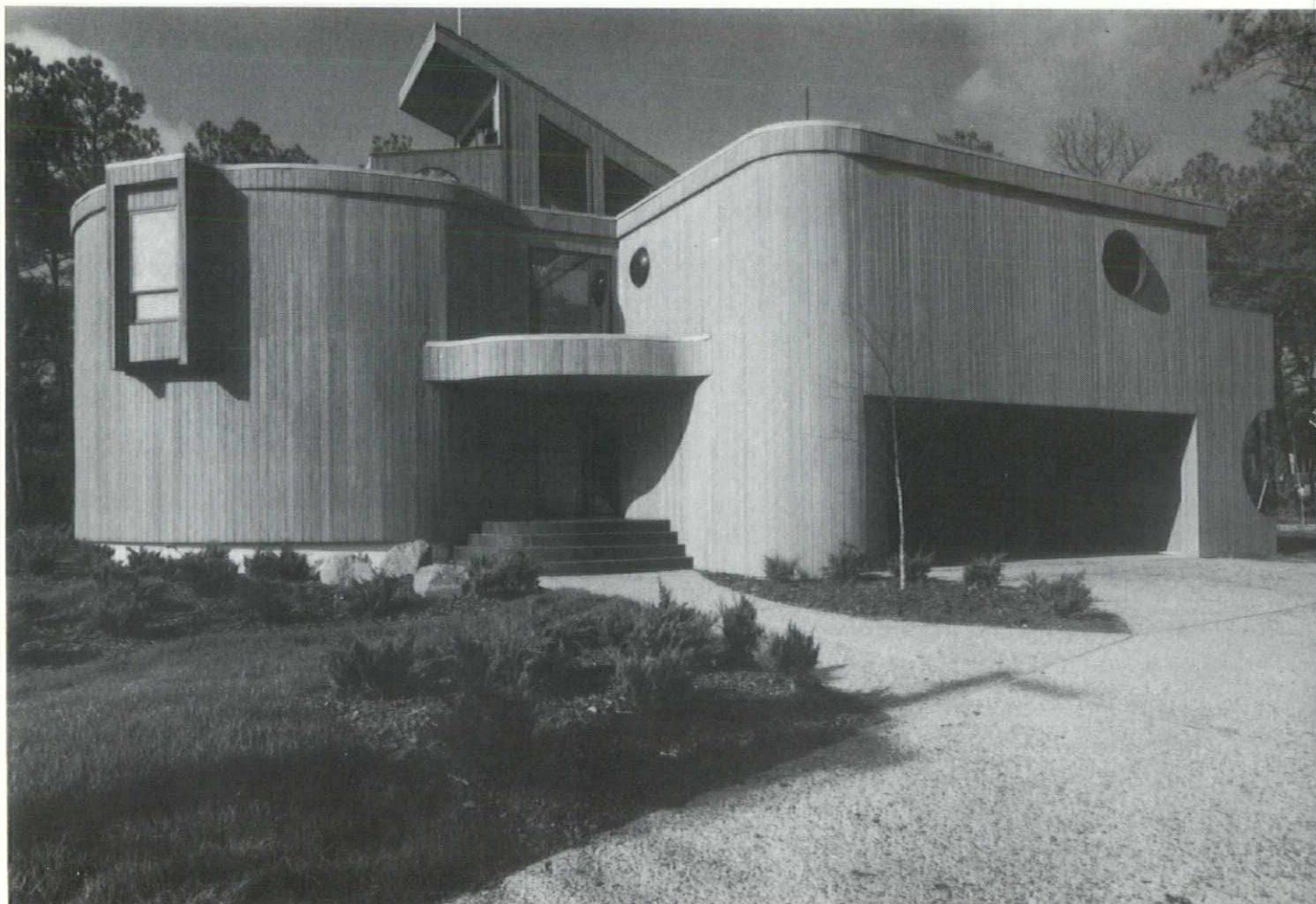
## Sandler Residence

Virginia Beach

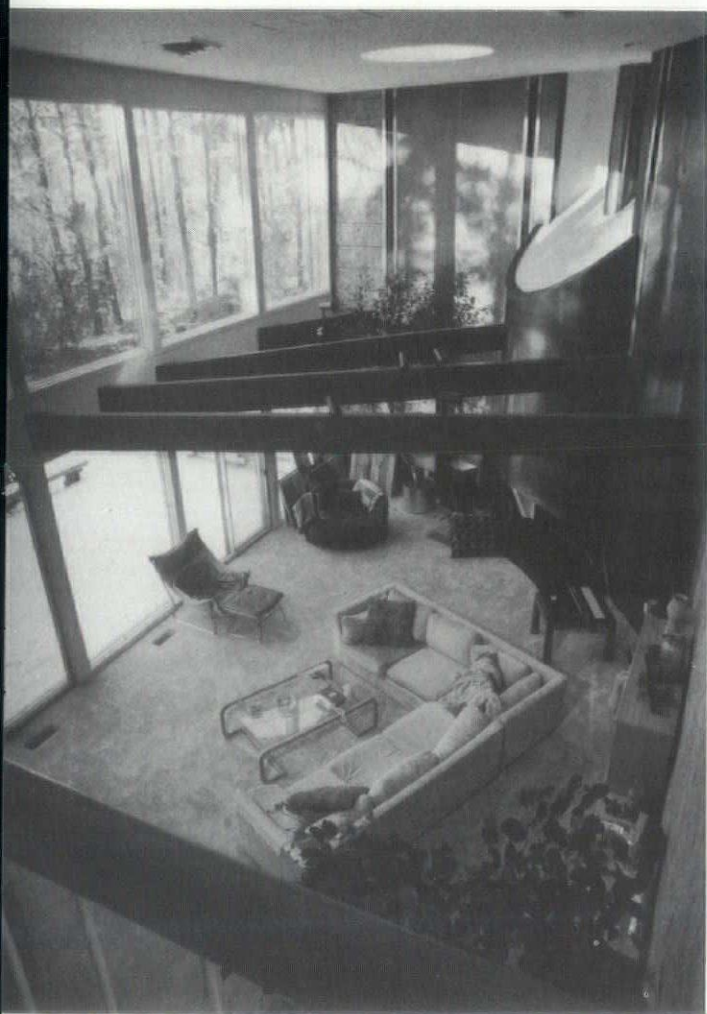
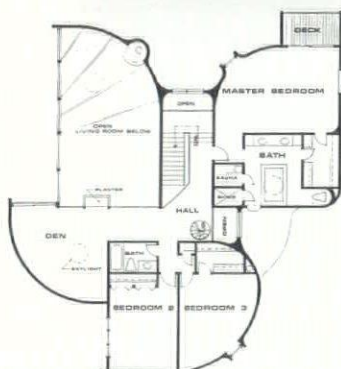
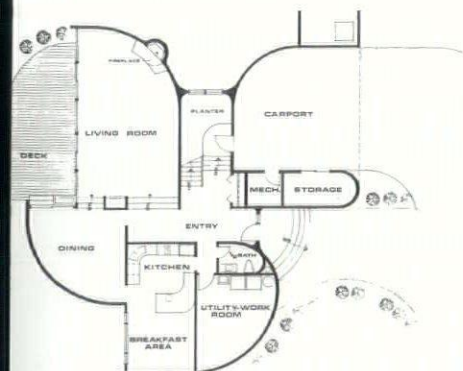
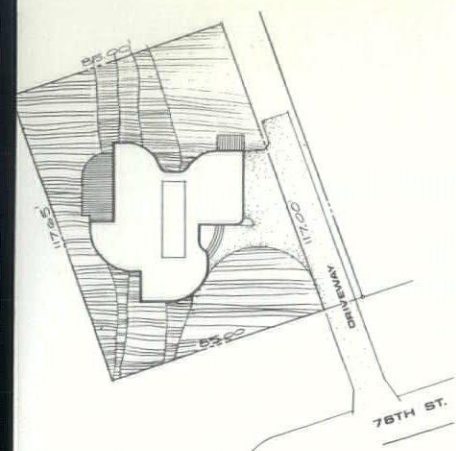
**The Design Collaborative / Laszlo Aranyi, AIA — Architect**

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Interior Design, G. Reese Fowler Ltd. • General Contractor, Francavilla Building Co. • Photography, Robert Mann.







### Program

The house was to be designed for a bachelor who likes curvaceous forms of all kinds. His other hobby was working with plants and displaying them in his house. Even though the house was to be occupied by one person, it had to be designed to accommodate a family in case he wanted to sell the house or in the unlikely event that he would get married.

### Site

The site is located on 76th Street in Virginia Beach and adjoining Seashore State Park on the west side.

### Design Solution

Based on the site conditions and the program requirements, the house was oriented to face the park and has a limited number of window openings facing the other sides.

Entering the house, one becomes immediately aware of the stairwell which serves as a light tower as it reaches up to capture the sunshine. The light is transmitted into the other portions of the house through various openings. From the second floor there is a spiral stair leading to a roof-deck.

The focal point of the house is the two-story living room with an impressive full-height fireplace. This room is a few steps lower than the surrounding area and is open to the dining room on the first floor and the den on the second floor.

Francavilla Building Co. of Virginia Beach was general contractor and handled steel erection and carpentry.

### Subcontractors & Suppliers

Virginia Beach firms were: Oceana Ready-Mix Corp., concrete supplier; Tidewater Steel Co., Inc., steel supplier; Higgins Roofing Co., roofing; Insulation Service Co., Inc., roof/wall insulation; Jim Boyce, painting contractor; Duron Paints & Wallcoverings, paint supplier; Schell Supply Corp., plumbing fixture supplier; House of Lighting, lighting fixtures supplier; and 3-D Electric, electrical contractor.

Norfolk firms were: Colonial Block Corp., masonry supplier & mortar; Addington-Beaman Lumber Co., Inc., structural wood & wood doors; Powell-McLellan Lumber Co., Inc., millwork; Kitchen Towne, Div. of Towne Distributors, Inc., cabinets; Econo Drywall & Plastering Co., plaster contractor; Jayen Tile Co., ceramic tile; I & M Plumbing, plumbing contractor; and Mechanical Service Co., Inc., heating/air conditioning contractor.

Others were: Hazel, Miller, Mason, Chesapeake, foundations & masonry contractor; Pella Virginia, Inc., Richmond, glass, windows & window wall; Trus-Joist Corp., Richmond, truss joists; and Duvinage, Maryland, spiral staircase.



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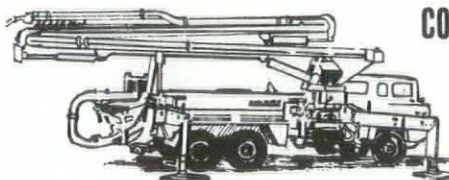
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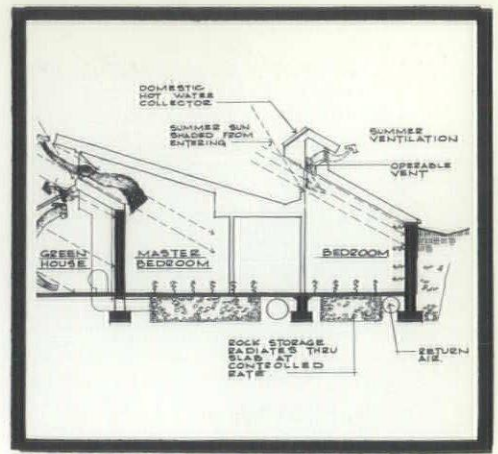
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# Patterson Residence

Botetourt County

## Byron R. Dickson, Architect

This residence is situated on a sloping site taking advantage of an unobstructed panoramic view to the south. The owner desired to be as energy independent as possible and, at the same time, to minimize the impact of the building upon the site. The selection of an earth sheltered passive solar design was a natural outgrowth of these concerns.

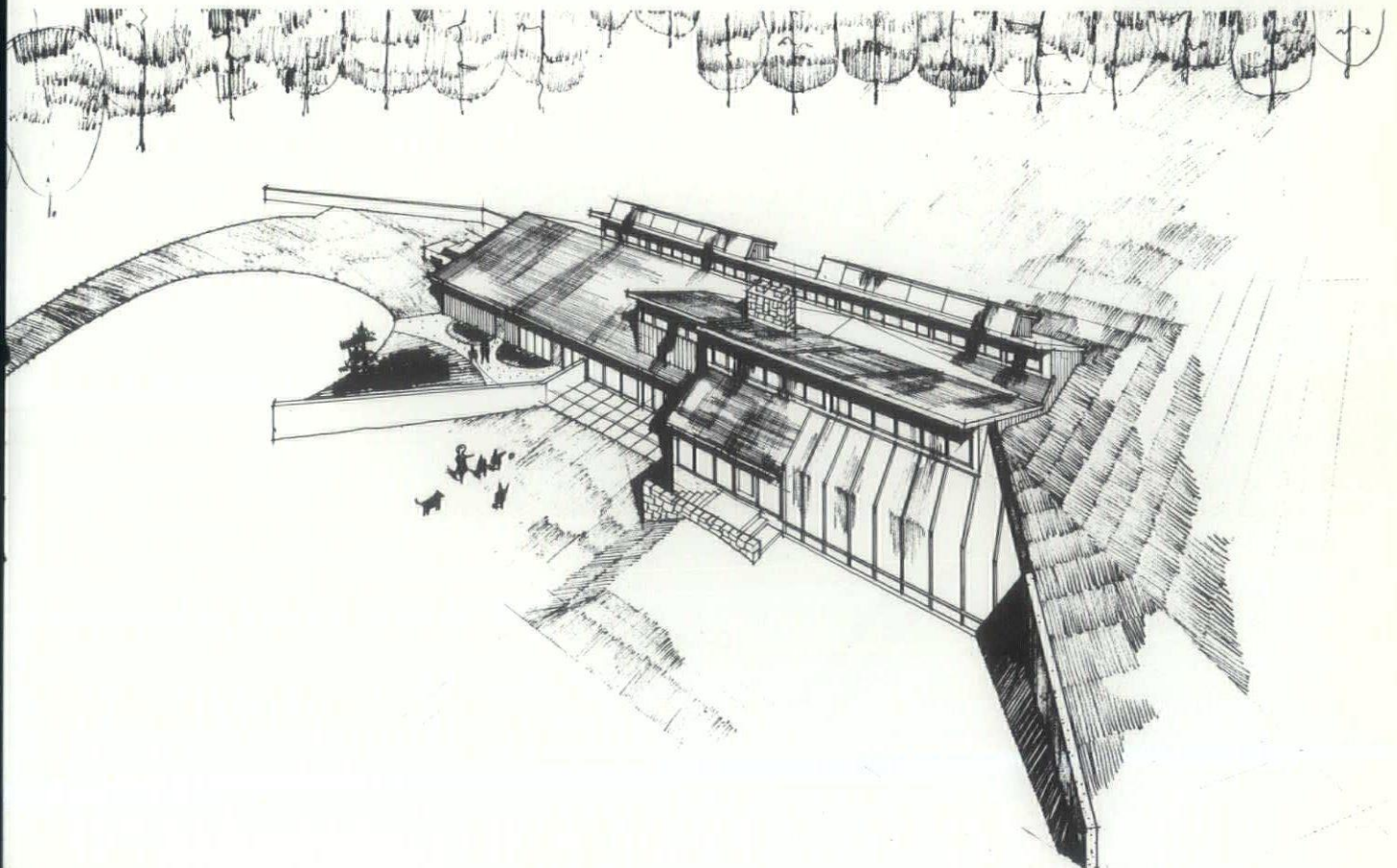
The building program calls for a 3,800 sq. ft. residence for a young expanding family with

strong emphasis given to the time which the family spends together. The resultant open floor plan further reinforces heating by passive means. An active collector is employed for heating domestic hot water. Backup heating will be accomplished by a wood stove and a fireplace insert.

The building uses a variety of passive solar techniques to obtain a significant solar heating fraction. As the first step, the heat loss from the

Project Manager, Jerome D. Henschel • Landscape Architect, Byron R. Dickson, Architect • Interior Design, Byron R. Dickson, Architect • General Contractor, J. E. Kidd and Sons.

building was minimized. The earth sheltered north and east walls reduce infiltration of cold winter winds, all windows are double glazed and oriented to the south. The garage provides a





buffer zone to the habitable space from the west. In addition, the entrances are both air locked. The insulation package requires an R-38 ceiling with R-25 walls. There is manually controlled R-10 movable night insulation provided to all high clerestory windows and to the thermal storage wall. In general, emphasis has been placed upon energy conservation in order to retain the solar energy which is collected.

The major solar collection occurs as direct gain through approximately 800 square feet of vertical south facing windows. Every room in the house receives some benefit, both in terms of heat gain and natural daylighting from these

windows. The problems of glare have been addressed by bringing the sunlight into both sides of the rooms or by reflecting it off a light colored surface. Surfaces used for direct gain thermal storage are finished with slate stone or skim coat plaster over concrete.

Two areas of the house are heated by indirect gain. A vented thermal storage wall, with movable exterior insulation, heats the recreation room while an attached greenhouse heats the master bedroom through an intervening mass wall. The thermal storage wall in the recreation room is constructed of concrete one foot thick and single glazed. There is some direct gain

through a window in the thermal storage wall, mass wall between master bedroom and greenhouse is an 8" thick concrete wall, somewhat undersized to allow higher temperatures in the greenhouse.

In addition to providing indirect gain to the master bedroom, hot air from the greenhouse heats fan forced rock beds placed below the concrete slab in all bedrooms and in the family room. This was done in response to the owner's desire to use carpet and wood floors in these areas thereby rendering them ineffective thermal storage from direct gain. This hybrid system removes about one-third of the energy available from the greenhouse and places it below the concrete floor slab.

Domestic hot water is supplied through a roof-mounted solar air to water collectors, horizontally mounted above the clerestory windows at an angle of 45° from horizontal. Hot air is ducted from the collectors to the air to water heat exchanger. From the heat exchanger, excess waste heat can then be distributed to the west supply duct and into the recreation and utility room areas, or returned directly to the collectors. Return air can also be drawn directly from the root cellar at a lower temperature, improve collector efficiency. This solar hot water system uses a storage tank and a back-up electric water heater all supplied from well water.

J. E. Kidd and Sons of Hollins is general contractor and is handling paving, foundation, concrete work, carpentry, waterproofing, foundation insulation and glazing.

#### Subcontractors & Suppliers (Roanoke firms unless noted)

Tony Reed, Vinton, excavating; Dixie Building Products, Inc., reinforcing and miscellaneous metal; Roanoke Ready Mix Concrete Corp., concrete supplier; Hamlin & Bell, Blue Ridge, masonry contractor; Home Lumber Corp., millwork; wood doors; Superior Cabinet Co., Hollins, cabinets; and Locker & Company, Wytheville, the local rock supplier.

Also, Robertson Sheet Metal Co., sheet metal; Pella Window & Door Co., greenhouse & windows; Graves-Humphreys, Inc., hardware supplier; James L. Thompson, Salem, plaster contractor & gypsum board contractor; Clifton Floor & Tile Service, Inc., Salem, carpet; Sherwin-Williams Co., paint supplier; CMC Well Pump Supply, Inc., hot tub; Warner Supply Corp., plumbing fixture supplier; Forbes Plumbing & Heating Co., Inc., plumbing contractor; Williams Supply, Inc., lighting fixtures supplier; Richard Lee, electrical contractor; and Nolan Company, domestic hot water system.

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## Group Homes

Roanoke & Richmond

**Glave Newman Anderson and Associates, Inc. — Architect**

Mechanical Engineer, Simmons Rockacharue & Prince • Electrical Engineer, Simmons Rockacharue & Prince • Structural Engineer, W. J. Davis • Interior Design (Richmond), Glave Newman Anderson & Associates, Inc. • General Contractors: Richmond - Teal Building Corp.; Roanoke - Regional Construction Services, Inc. • Photography, Bob Strong.







Making the transition from life in an institutional setting to living independently in a private home or apartment can be difficult and frightening. One method devised to combat the hardships faced by those who must make such change has been the establishment of group homes.

In 1975, the Virginia Housing Development Authority (VHDA) asked Glave Newman Anderson and Associates to be one of two architectural design firms to develop a prototype group home for mentally retarded adults. These group homes were to serve as temporary residences for individuals who had just left an institutional setting but were not yet able to live entirely on their own. Section eight allocations from the Department of Housing and Urban Development enabled the VHDA to finance group homes from non-profit sponsoring agencies.

The two architectural firms worked independently in order to come up with different solutions for the project. The prototype designs are to be sold on a per unit basis, keeping architectural fees down and allowing the repetition of the design, realizing an economy of scale while building a quality product.

Initially, a workshop for ideas was held with representatives from the VHDA, the state Department of Mental Health and Mental Retardation and representatives from eight sponsoring organizations. The homes were to be residential and where zoning permitted, fit into existing neighborhoods. Originally the firms were given no instruction as to whether the home design would be for urban or suburban settings. But as the project evolved, Glave Newman Anderson was asked to develop a home for a suburban setting, while the other firm was asked to work within the confines of an urban setting.

The VHDA had learned from a similar project conducted in Michigan, that the homes seem to work best when they accommodate a minimum of six and a maximum of 12 residents, plus full-time staff, which is usually a married couple. In order for the regular staff to take vacations and spend other time away from the home, an additional bedroom was needed for substitute staff.

"We felt it was important that the prototype design be flexible enough to be constructed on a number of different types of sites," said Richard L. Ford, Jr., a Principal of Glave Newman Anderson. "We accomplished this by using component parts, with similar activities grouped together in the components. The living room, dining room, and kitchen served as one component; the bedrooms served as another component; service facilities another; and the staff apartment served as another component.

The clients also asked for alternate plans which would allow for a recreation room or garage. Glave Newman Anderson placed this area so it fed directly into the kitchen.

"In order to serve as few as six residents plus the staff, we split the bedroom components into two, six unit sections," Ford said. "These could be placed side by side, stacked, or connected at various points, depending on the site constraints."

The prototype for a suburban setting follows the typical suburban home: brick with wood siding, asphalt shingles, rambling in nature with two bedroom wings off at right angles from the living space. The resident managers' apartments were attached to the other side of the living space. The residents needed the capability to congregate in one area, so open space was provided in the living room, dining room, kitchen area. But the residents also needed

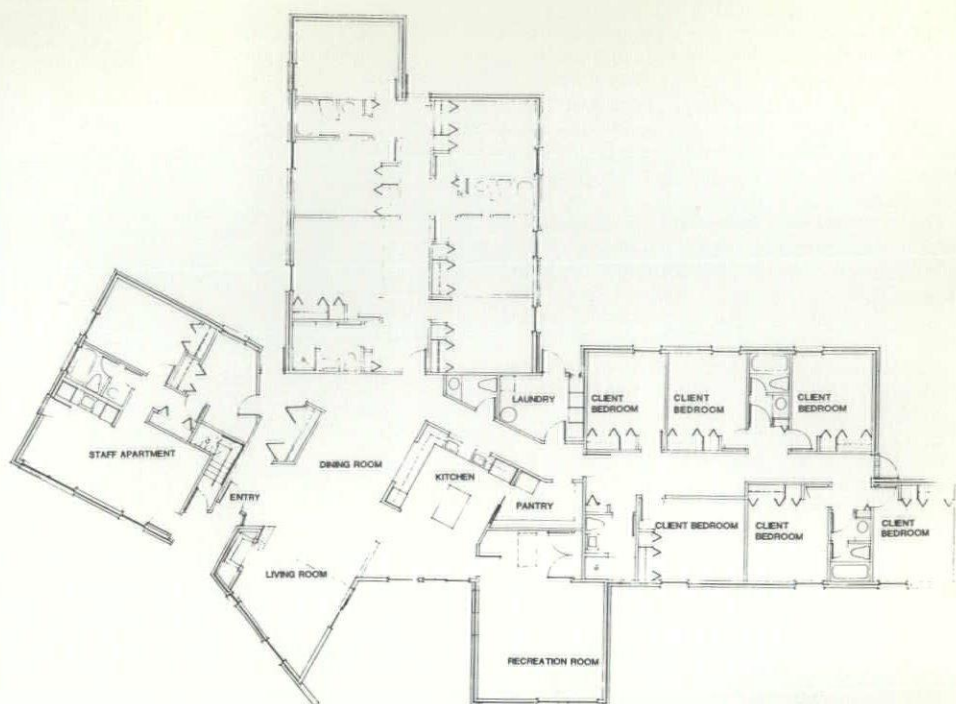


ve the privacy of their own room and bath, so  
ch individual has a private room with a semi-  
ivate bath. The bathrooms, which are tradi-  
onal in style with a bathtub, sink, and toilet,  
ve been placed between every two bedrooms.  
andicap specifications were met by providing  
ll-in showers in two bathrooms.

"Perhaps the most important feature of these  
ilities is the difference between a residential  
nd institutional setting," Ford said. "The resi-  
ntial setting features different colors, a var-  
y of materials in its construction, and resi-  
ntial scale size rooms and appliances.

"These homes serve not only as residences,  
ut also as educational facilities," Ford added.  
esidents are taught the care of such things as  
shes, preparation and storage of food, how to  
perate such appliances as ovens and dish-  
ashers, and they are required to maintain their  
edrooms and bathrooms, and do their own  
undry."

When the prototypes were presented five  
onths after the project started, there was  
ough difference in the approaches to the pro-  
em to emphasize the need for using two archi-  
cts. The other firm broke their building into  
ore and smaller component parts, perhaps  
ue to the restrictions of an urban location. The  
ave Newman Anderson building will fit on nar-  
w sites by stacking the bedroom components,





on a hilly site by stacking the bedrooms and stepping down, and on any configuration of a flat site by reconnecting the bedroom parts.

"Our prototype is adaptable to a number of different types of locations," Ford said. "The residential appearance of the buildings allows them to be placed in existing residential communities with minimal impact or disruptive influences."

Since developing the prototype, Glave Newman Anderson has worked with two sponsoring organizations in the construction of group homes. One is the Roanoke Mental Hygiene Services in Roanoke, and the other is the Richmond Area Association for Retarded Citizens.

The Roanoke home is located on a large, one-acre plus, site. It is in a buffer zone between a residential area approximately 10-12 years old and a commercial strip. Since there was ample room to work with, the one-story scheme was used with a few minor changes made to the original prototype. These included room sizes, location of the handicapped facilities, and minimizing small lounge areas and leaving more communal space in the living and dining room areas.

"These changes were all minor," Ford said, "which illustrates how well the prototypes will work. And that was the intent of the program."

The Roanoke house has all the standard techniques of residential construction. There is a brick veneer exterior, with some wood siding. It has steel windows, sized to provide easy escape for the handicapped in an emergency. The living room, dining room, and kitchen are in one large space, with a minimum of walls to allow a number of activities to occur simultaneously without seeming cramped.

The Richmond facility is based on the same prototype and is located in a residential section on the city's northside. This is an older neighborhood and the site is much smaller than its Roanoke counterpart. In order to accommodate 12 residents, the bedroom components here were stacked and the handicapped requirements were met on the first floor. Budget restrictions prevented the installation of an elevator, but the second floor is served by two staircases, satisfying the building and fire codes. The building also has a sprinkler system. The exterior walls are solid masonry as compared to the frame construction of the Roanoke home. Both are slab on grade, using, wherever possible, wooden roof trusses and standard component pieces in order to keep costs down.

"In order to give residents some orientation to outside living, patios, which can be used during good weather, were placed in the area of the living room, dining room, and kitchen," Ford said. "The sponsoring organizations also asked that fireplaces be included in the buildings in order to add to the feeling of a home setting."

By stacking the Richmond bedroom components, a small lounge area could be included on the second floor. This can be used for activities taking place later in the evening. The interiors of both buildings were furnished with low maintenance products, such as sheet vinyl throughout the living area, kitchen, and hallway. Carpet was provided in the bedrooms to lend a sense of warmth and the bathrooms were ceramic tile with fiberglass bathtubs. Interior furnishings were provided by the sponsoring organizations.

Glave Newman Anderson and Associates is currently working with the Northern Neck-Middlesex Mental Retardation Association and the Petersburg Association for Retarded Citizens in the development of two more group homes using the original prototype design.



"Solving any architectural problem gives us a great deal of satisfaction," Ford said. "Solving a problem and at the same time helping to provide for such a pressing social need gives the firm particular satisfaction. We think this is a vital program and believe it is working as it was intended."

Teal Building Corporation of Ashland was general contractor for the Group Home in Richmond. The firm also handled clearing, footings, landscaping work, and paving.

Regional Construction Services, Inc., of Roanoke was general contractor for the Group Home in that city.

Subcontractors & Suppliers

Richmond Group Home

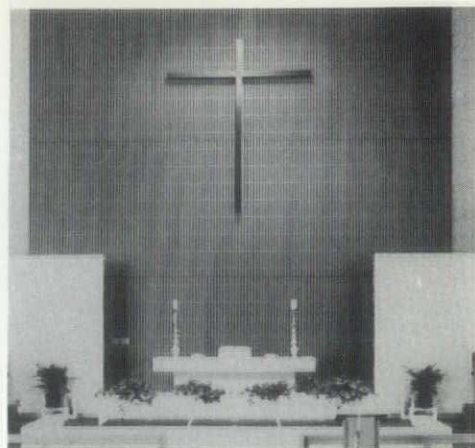
(Richmond firms unless noted)

J. & H. Concrete, concrete; B & W Construction of Virginia, masonry; Hanover Iron & Steel, Inc.,

Ashland, metals; C & J Builders, rough & finish carpentry; Hanover Fabricators, Ashland, trusses; Georgia-Pacific Corp., cabinet work; Franklin Brown, roofing & flashing sealants; Spang Age Insulators, foam insulation; and G. T. Du

Also, Lowe's, doors; W. H. Stovall & Co., Inc., Ashland, windows; Pleasants Hardware, hardware supplier; James Greene, wallboard; Shifflett, ceramic tile; Duron Paints & Wall Coverings, carpet & sheet vinyl; Galaxy Decorative Inc., painting contractor; Goldberg Co., Inc., specialties; Grinnell Fire Protection System Co., Inc., sprinkler system; Lawrence R. Mu Plumbing-Heating-Air Conditioning Corp., plumbing contractor; White & Yeatts Heating & Conditioning, mechanical; and Able Electric Contractors, Inc., Ashland, electrical contractor.

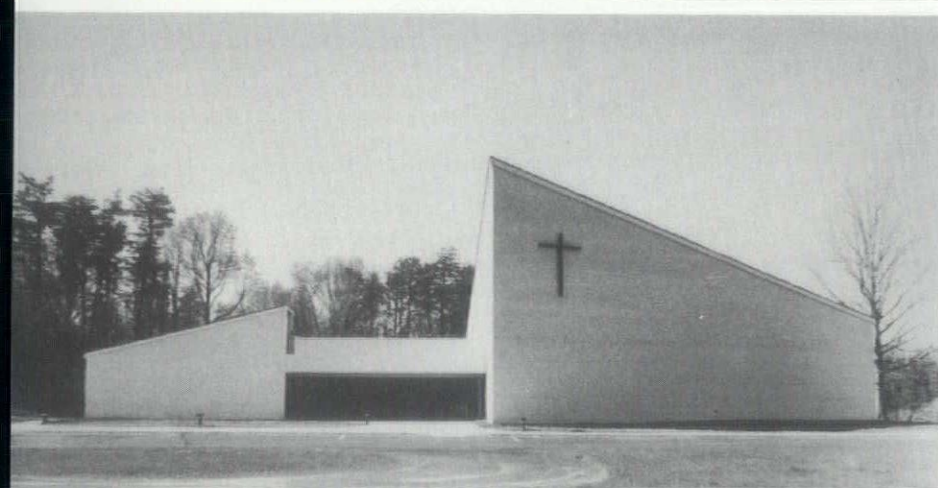




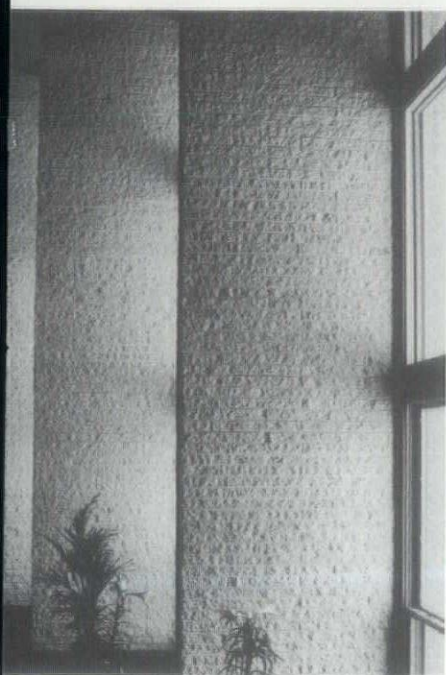
# Church at Northern Virginia

Oakton

**Brown/Ryon Associates, Ltd. — Architect**



Mechanical Engineer, Beauchamp Associates • Electrical Engineer, Beauchamp Associates • Structural Engineer, F-D-E Ltd. • Civil Engineer, Walter L. Phillips, Inc. • General Contractor, E. H. Glover, Inc. • Photography, Ralph Snell, AIA



Church at Northern Virginia is an autonomous Charismatic Renewal congregation. Members are born-again, Spirit-filled believers, steadfastly basing their faith on the Bible. An integral component of the Church is the Whole Word Theological Seminary which trains candidates for the ministry.

Founded in 1967, the Church is blessed with a strikingly beautiful eighteen-acre site: a gently rolling glade in the woods surrounding a tranquil lake. A small log cabin occupies the highest hill.

Over the years, a series of additions, designed by the architects, were grafted to the original cabin to house the growing congregation. But master planning pointed to the eventual need for an entirely new Sanctuary and educational building.

The new building would have to resolve a number of conflicting demands:

—Functionally, it had to unite a large scale worship space with multi-sized educational and assembly facilities.

—The future addition of a seminary library and a dormitory had to be projected.

—The structure would have to look as if it belonged — within its natural setting and with the existing buildings.

—Symbolically, it had to be a prominent, bold statement of faith, bigger and better than before.

—And reflecting the times, energy efficiency was a must. As was planning for use by handicapped visitors.

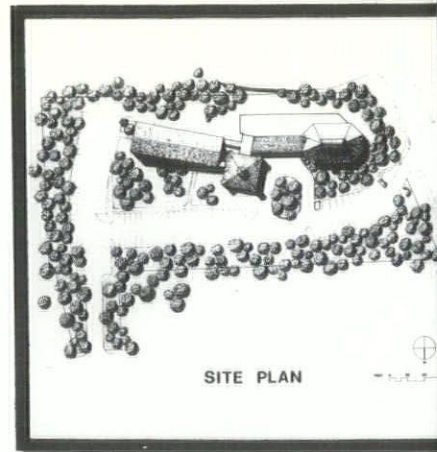
Concept planning initially resulted in a one-story scheme. Further development, and careful siting, turned the single story plan into one incorporating a lower level, created by using the natural drop in grade. This permitted the seminary library (with a 26,000 volume capacity) to be included in the initial new building at a minimum of extra expense. The seminary could now seek accreditation sooner.

The natural division in function is expressed on the exterior. Worship space—Educational space—the forms are discrete; coupled by the Narthex.

Exterior materials were selected for their appearance and permanence. Stone-based split face masonry is used inside and out. A prophecy determined the building's color: white. White mortar and white trim are used to obtain a monolithic effect, emphasizing the bold geometry. Cedar shakes cover all sloped roofs. Gutters and downspouts are copper. Dark bronze completes the limited palette of colors — appearing

*(Continued on page 41)*





# Messiah United Methodist Church

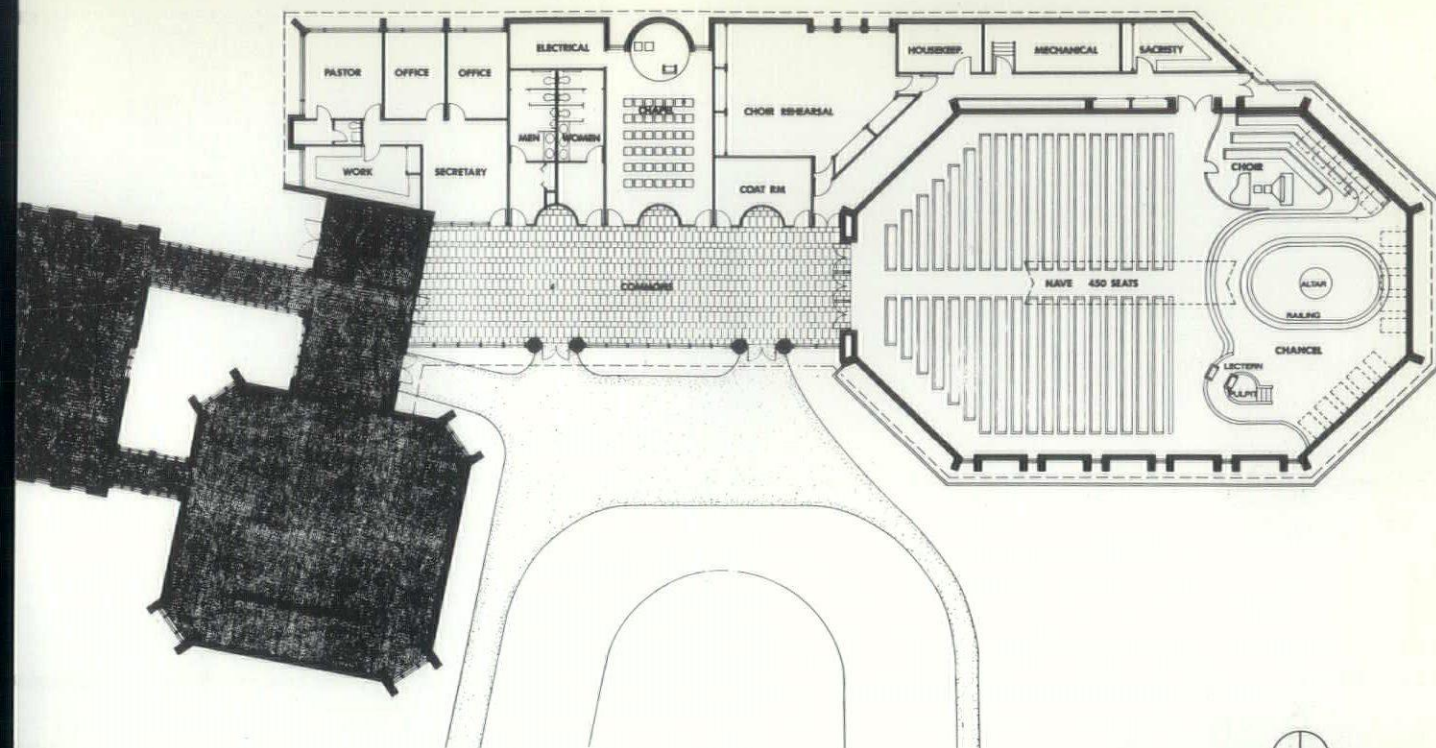
Springfield

Lawrence Cook & Associates, AIA — Architect

Landscape Architect, Lawrence Cook & Associates, AIA • Mechanical Engineer, McDavid Grotheer Co. • Electrical Engineer, McDavid Grotheer Co. • Structural Engineer, F-D-E, Ltd. • Acoustical Engineer, Pysonics • Civil Engineer, Matthews & Wheatley • Interior Design, Lawrence Cook & Associates, AIA • General Contractor, E.H. Glover, Inc. • Photograph, Larry Cook & Andy Ness.







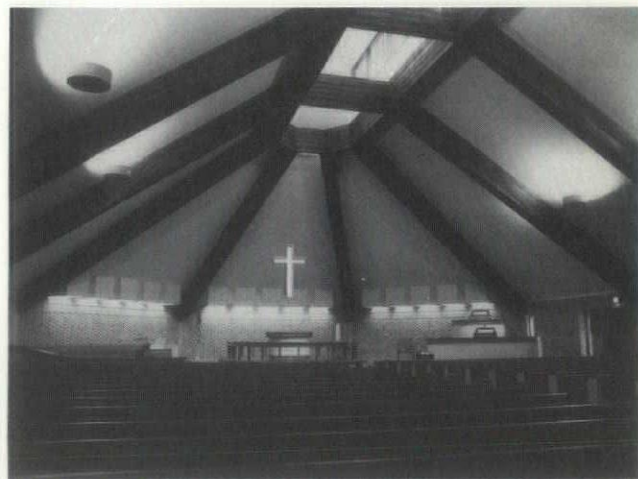
## FLOOR PLAN

**ENVIRONMENTAL CONSIDERATIONS**—The bold of shape with traditional lantern and cross are chosen to render a strong image of the church in the community. The church property acts as a buffer to separate a long commercial strip from a fine residential planned community. The entrance drive was shortened to provide a plaza-like transition space between the parking lot and the Commons while providing ideal access for the handicapped. Existing trees surrounding the site were preserved. Ornamental landscaping will be planted soon.

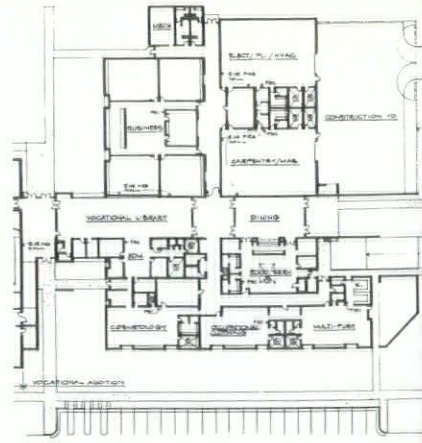
**ENERGY CONSIDERATIONS**—This facility was designed as the first all-solar heated and cooled church in the United States. However, the Department of Energy did not grant assistance as a demonstration project and the congregation could not afford to install the solar system at this time. The walls and ceilings are heavily insulated for minimum heat transfer. The Commons is heated by passive solar energy. The winter sun penetrates the clerestory windows and stores heat in the slate floor "solar sink" which gradually emits the heat back into the room at night. The summer sun is blocked by the clerestory overhang and vertical wing walls.

**MATERIALS**—Brick and mortar were selected to match the existing buildings. The Sanctuary walls are brick outside and inside with special brick patterns used to accent the Chancel, to form return air grilles, and to bond the top of the wall around the entire Sanctuary. The Sanctuary ceiling is gypsum board for sound reflection with cedar siding encasing the steel frame. The Commons ceiling is spaced oak paneling with sound reducing back-up insulation. All windows are dual glazed and set in storm fir frames. Most doors are custom made oak. The roof is covered with heavy cedar shakes.

(Continued on page 42)







# Southamptton High School

Vocational Addition, Courtland

**Moseley-Hening Associates, Inc.— Architect**

The Vocational Addition for Southamptton High School is the first phase of a proposed two-phase project designed to meet increasing educational and community needs in this rural Southeastern Virginia county. A civic center proposed as the second phase would be the result of a cooperative venture between the County Board of Supervisors and the School Board and could provide a cost savings to each for expenditures made for community facilities which might otherwise be too costly for either individually.

When the new Vocational Addition is completed, 43,890 square feet of space will have been added and facilities provided for programs in food service; carpentry; masonry; electricity; plumbing; heating; ventilation and air condition-

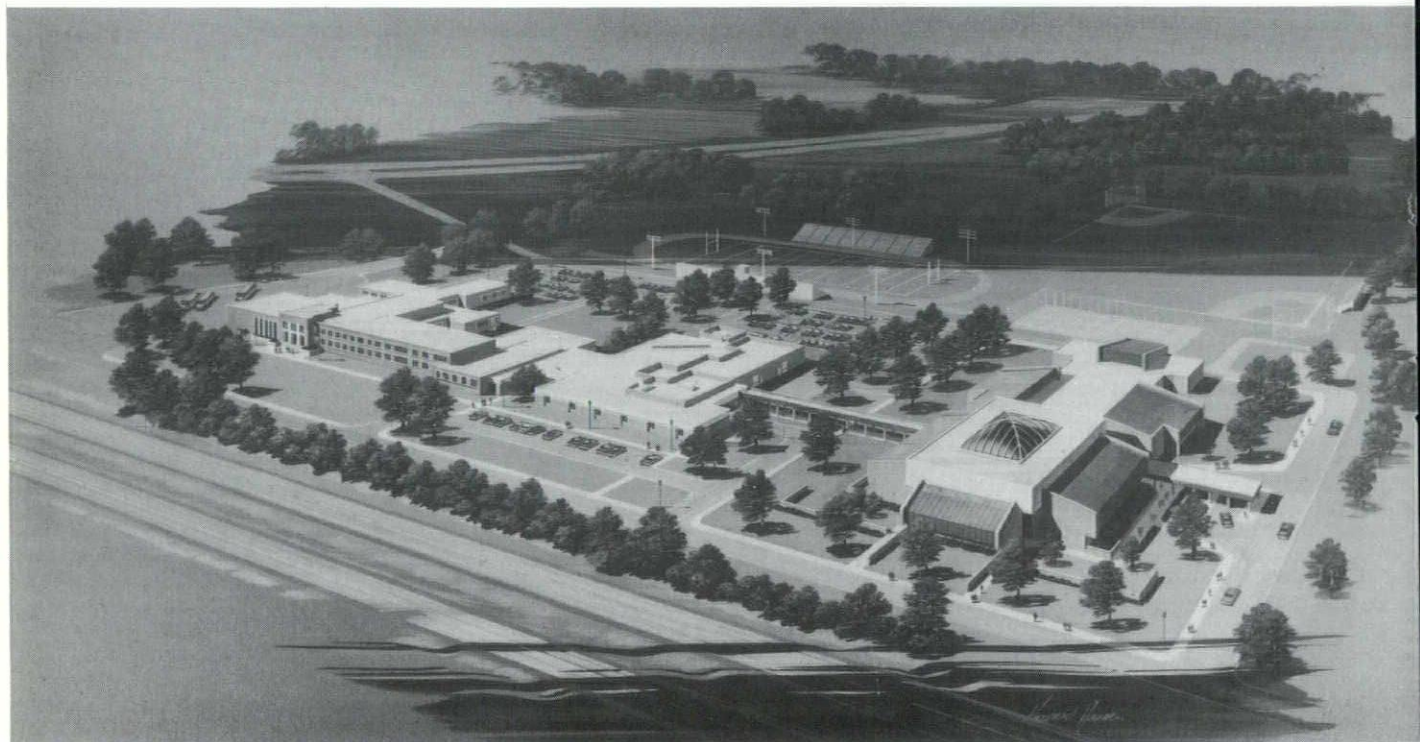
ing; stenographics; reprographics; office services and accounting; typing; cosmetology; occupational clothing; and home institutional training. A resource and career center is designed as an integral part of the student circulation pattern to encourage its use by students. A model office is provided to place business students in a simulated working environment. Another feature of the new addition, the solar water heating system, will serve as a valuable educational tool to students of the building trades while providing for most of the new building's hot water needs.

Athletic fields at the school have been updated to provide first class facilities for Southamptton's State Championship Football Team. The second-phase civic center, in conceptual

Landscape Architect, Watkins Nurseries, Inc. • Mechanical Engineer, Wm. G. Brandt, Jr. & Associates • Electrical Engineer, Wm. G. Brandt, Jr. & Associates • Structural Engineer, Dunbar, Milby & Williams • Interior Design, Moseley-Hening Associates, Inc. • General Contractor, Silas S. Kea & Sons Co. • Photography, Huffman Studio.

form only at this stage, would house a gymnasium for school and community use, an auditorium, exhibition halls, and other community facilities.

Silas S. Kea & Sons Co., Ivor, was general contractor and handled foundations, precast stone erection (with Old Dominion Stone Co.), masonry work, carpentry, light weight





concrete insulation (with J. D. Wells, Inc.), and foundation insulation.

#### Subcontractors & Suppliers

Norfolk firms were: Winn Nursery, Inc., landscaping & landscaping contractor; Hall - Hodges, Inc., reinforcing; K & P Construction Co., plumbing (joint sealers); Roof Engineering Corp., flat-up roof & dampproofing, sheet metal & flashing; Lyon Metal Products, Inc. (c/o Dave Hefey, Hampton), metal lockers; Walker & Berge Co., Inc., glass & glazing contractor & aluminum windows; Carpet Installation Associates, Inc., carpet; Anchor Fence Div. of Anchor Products, Inc., metal fencing & athletic field backstops; and Door Engineering Co., dock bumpers & projection screens.

From Richmond were: Economy Cast Stone Co., cast stone & precast concrete supplier; J. B. Bell Co., steel roof deck, roof deck (lt. weight inc. insulating), and roof insulation (lt. weight inc. insulating); Miller Manufacturing Co., Inc., millwork; J. H. Pence Co., cabinets (casework) & food doors; Roanoke Engineering Sales Co., metal doors & frames & security vault doors; Lundia of Virginia, shelving; Manson & Hey, Inc., acoustical treatment (ceilings) & resilient tile; Schalow Manufacturing Co., Inc., chalkboards & tack boards; Glidewell Brothers, Inc., painting contractor/supplier; J. S. Archer, Inc., overhead doors; and John G. Kolbe, Inc., food service equipment.

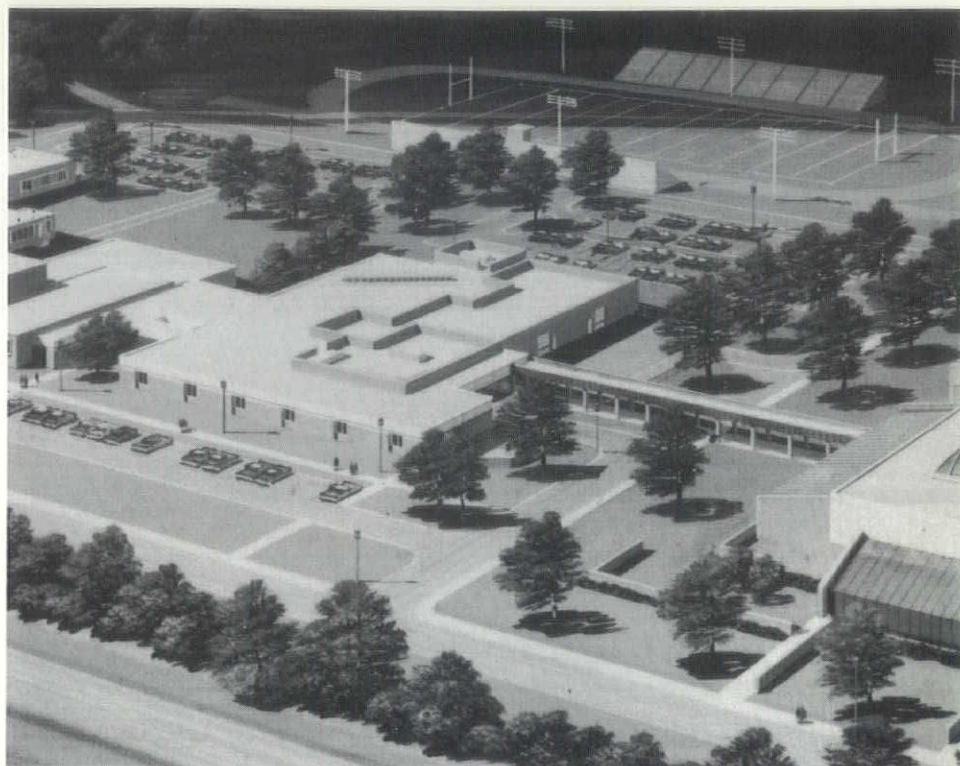
Others were: J. H. Lee & Sons, Inc., Courtland, excavating, sodding, seeding, etc., paving contractor & concrete supplier; Terminix-Seva, Inc., Norfolk, soil treatment for termite control; Old Dominion Steel Co., Chesapeake, precast & cast concrete erection; Brick & Tile Corp. of Lawrenceville, Lawrenceville, masonry manufacturer; Verton Corp., Riverton, mortar; and Lynchburg Steel & Specialty Co., Monroe, steel super-erection/joists, miscellaneous metal & steel stair system & handrails.

Also, J. D. Wells, Inc., Va. Beach, wall insulation & gypsum board contractor, metal stud construction & insulation; Architectural Products of Va., Va. Beach, hardware supplier & lighting devices; Bay Tile Corp., Portsmouth, ceramic tile, marble work & quarry tile; Seaward Building Supply Co., toilet accessories; V. E. Mills Plumbing & Heating Co., Inc., Suffolk, sprinkler contractor, plumbing fixture supplier; plumbing/heating/air conditioning contractor; and Stanley W. Johnson, Franklin, electrical equipment/lighting fixtures supplier & electrical contractor.

#### Interior Furnishings & Equipment Suppliers

Miscellaneous Desks, Credenzas, Table & Chairs: Buck Office Supply & Equipment, Inc., Suffolk. Benches, Lounge Seating & Chairs: Lith Office Products Center, Richmond. Counter stools, Lamp, Tables & Chairs: Morton Marks & Sons, Inc., Richmond. Light Table & Paper Cutter: Ginn's, Richmond. Cosmetology equipment & furnishings: Bruton & Co., Inc., Charlottesville; J. H. Pence Co., Miller & Rhoads, Thalhimers Industrial Sales, Richmond; and Virco Mfg. Corp., Conway, AR.

Also, Reprographics furnishings & equipment: A. B. Dick Co., Va. Beach; Franklin Office Supply, Franklin; and J. H. Pence Co., & Miller & Rhoads, Inc., Richmond. Occupational Clothing furnishings & equipment: Cutters Exchange, Inc., Nashville, TN; Franklin Office Supply, Franklin; Graves-Humphreys, Inc., Roanoke; Miller & Rhoads, Inc. & J. H. Pence Co., Richmond; Nasco, Fort Atkinson, WI; and Union Special Corp., Philadelphia, PA. Home Institutional furnishings & equipment: Cutters Ex-

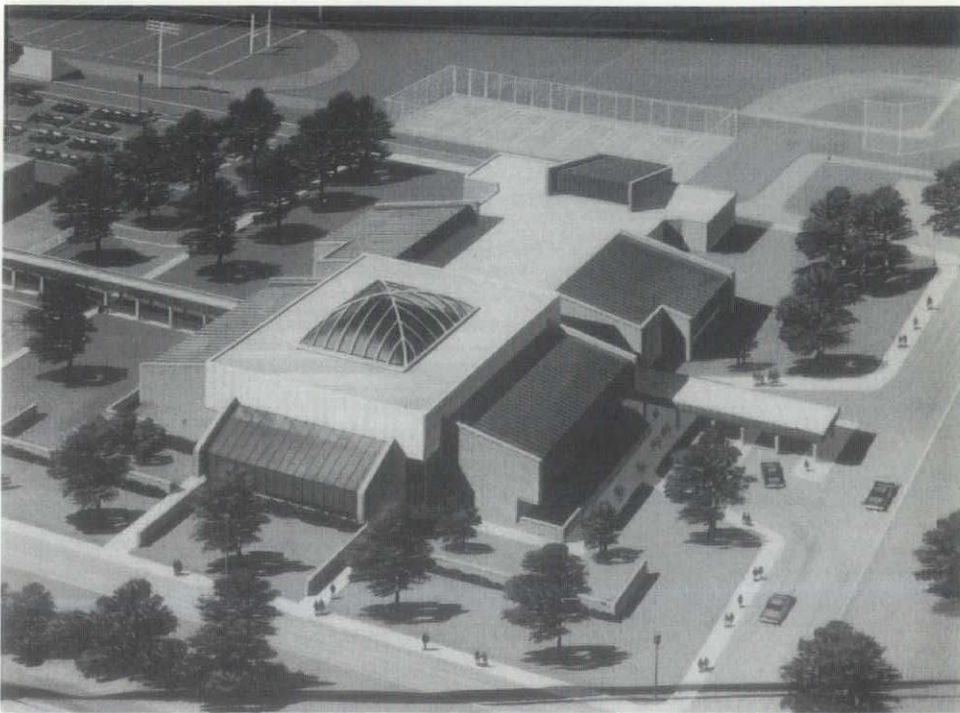


change, Inc., Nashville, TN; Goldberg Co., Inc., J. H. Pence Co., & Thalhimers Industrial Sales, Richmond; and Virco Mfg. Corp., Conway, AR.

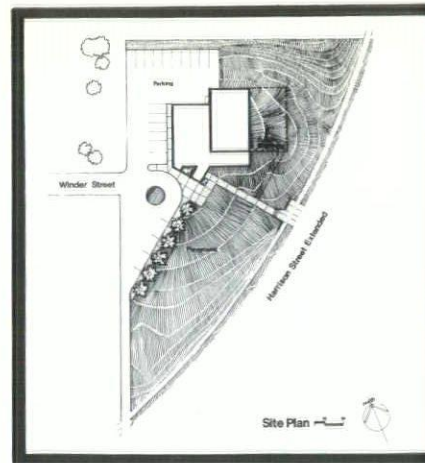
And, Electricity, Plumbing & HVAC Trades equipment & furnishings: Diversified Educational Systems, Inc., Berryville; Graves-Humphreys, Inc., Roanoke; J. H. Pence Co., Richmond; and Arthur B. Williams, Jr. & Associates, Inc., Sanford, NC. Model Office furnishings & equipment: Atlantic Word Processing, Inc., Thalhimers Industrial Sales & Miller & Rhoads, Inc., Richmond; Franklin Office Supply, Franklin; and International Business Machines, Norfolk. Stenographic furnishings & equipment: Atlantic Word Processing, Inc., John L. Glisson, Inc., Miller &

Rhoads, Inc., and J. H. Pence Co., Richmond; Franklin Office Supply, Franklin; and International Business Machines, Norfolk.

Others were, Office Services & Accounting furnishings & equipment: John L. Glisson, Inc., Miller & Rhoads, Inc., and J. H. Pence Co., Richmond; Franklin Office Supply, Franklin; and International Business Machines, Norfolk. Carpentry & Masonry Trades furnishings & equipment: Graves-Humphreys, Inc., Roanoke; Virco Mfg. Corp., Conway, AR; and Miller & Rhoads, Inc. & J. H. Pence Co., Richmond. Vocational Library equipment & furnishings, Miller & Rhoads, Inc., J. H. Pence Co., and Thalhimers Industrial Sales, Richmond.





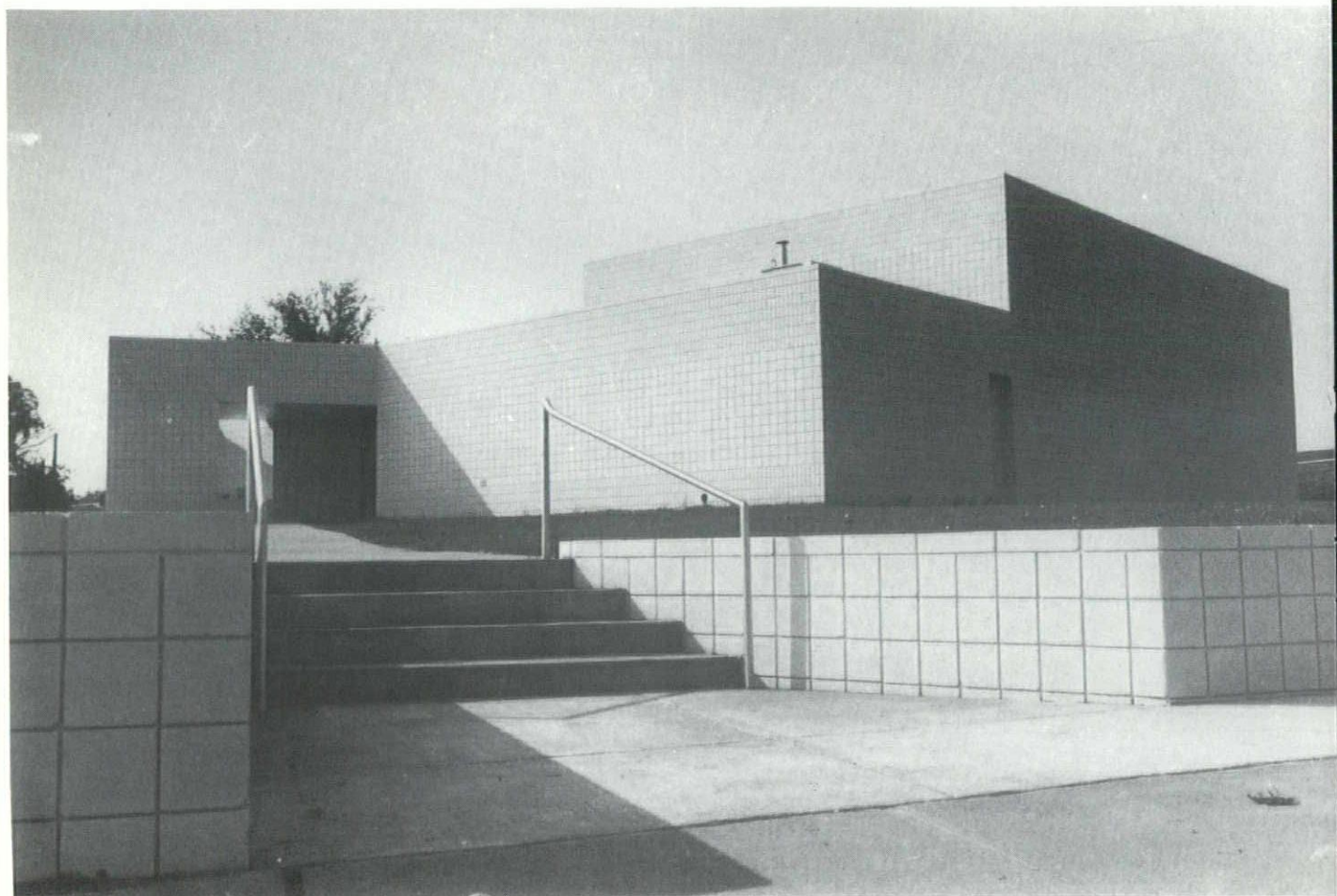


# Randolph Boys' Club

Richmond

**Fraher and Harrison — Architects**

Mechanical Engineer, CEK, Inc. • Electrical Engineer, CEK, Inc. • Structural Engineer, St. Clair, Callaway & Frye • General Contractor, A. D. Whittaker Construction, Inc. • Photography, Fraher and Harrison.







#### Subcontractors & Suppliers (Richmond firms unless noted)

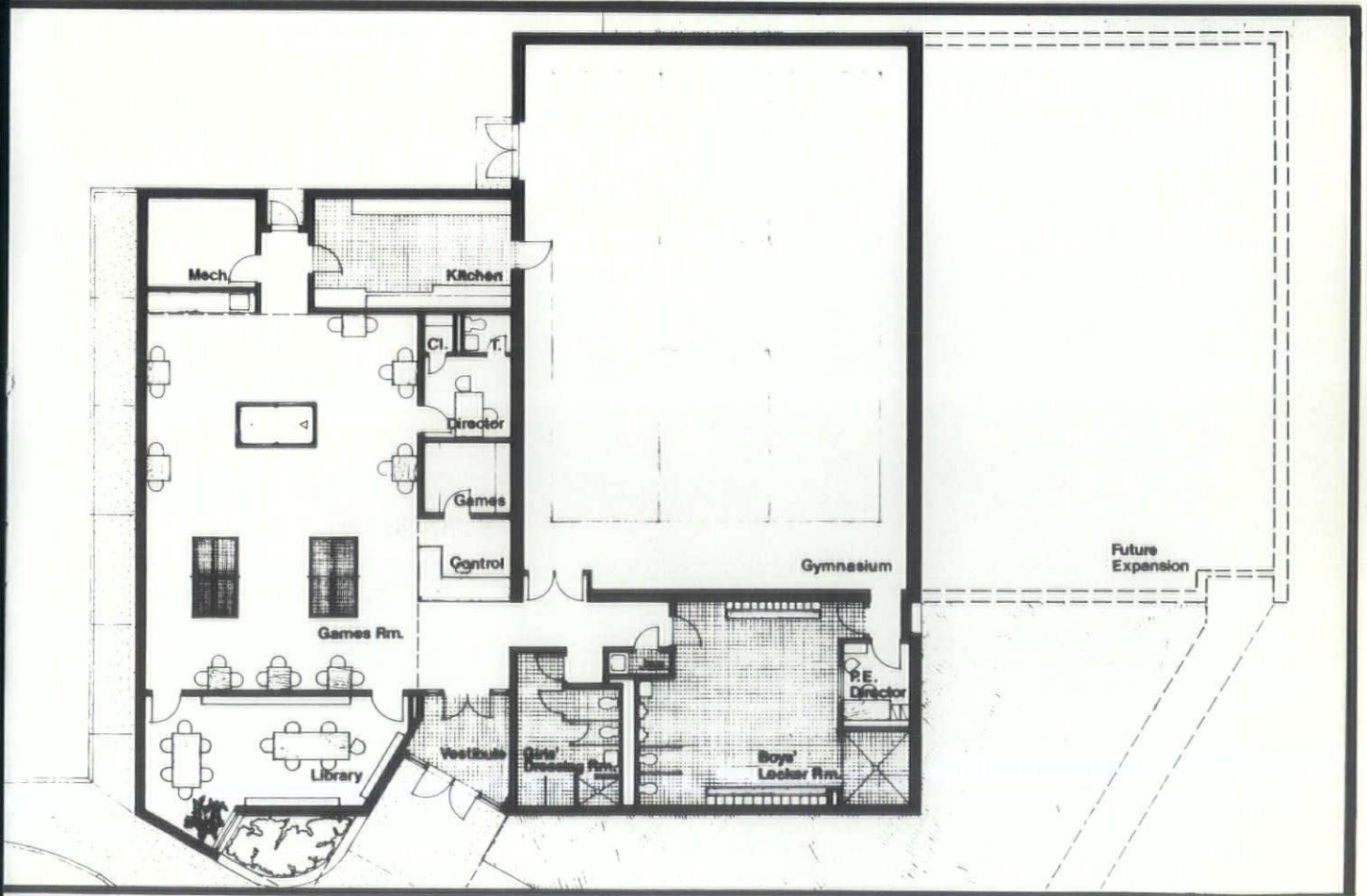
E. G. Bowles Co., excavating, sodding, seeding, etc. & paving contractor; Watkins Nurseries, Inc., landscaping contractor; Richmond Block, Inc., precast coping; Bowker & Roden, Inc., reinforcing; Old Dominion Masonry, Inc., Ashland, masonry contractor; Holmes Steel Co., Inc., Ashland, steel supplier/erectin/joists/roof deck & miscellaneous metal; Miller Manufacturing Co., Inc., millwork & cabinetry; and Richmond Roofing Co., Inc., Ashland, built-up roof & roof insulation.

Also, Perkins & Glass, Inc., glazing contractor; Architectural Hardware, Inc., metal doors & frames; Ar-Wall, Inc. of Va., windows; Pleasants Hardware, hardware supplier; H. E. Satterwhite, Inc., quarry tile; Manson & Utley, Inc., resilient tile; W. W. Nash & Sons, Inc., painting contractor; J. S. Archer Co., Inc., toilet partitions; R. J. Tilley, Plumbing & Heating, Inc., Ashland, heating/ventilating/air conditioning contractor; and W. C. Lang & Son Electric Co., Inc., Ashland, electrical contractor.

The Boys' Club of Richmond, a non-profit organization supported by the United Givers Fund, has been providing programs for inner-city youths, ages 7-15, at its Central Unit for over 20 years. In 1970 the need of an outreach program was documented and the Club opened its first Extension Unit in an old home in the Randolph Redevelopment Area of Richmond. Membership at the existing facility inadequate. Because remodeling and enlarging the building were not feasible, a fund raising campaign for a new building was started in 1978.

The newly completed building is located on a 1 1/3 acre site on the eastern edge of the Randolph Urban Renewal Area. The building, which is designed to accommodate a membership of 300 youths, contains approximately 6,700 square feet and includes a games room, library, gymnasium, locker rooms, kitchen and other support spaces. The gym is designed to allow for expansion in the future. The use of modest materials, both interior and exterior, were necessitated by budgetary restrictions. The building was completed in May 1980.

A. D. Whittaker Construction, Inc., Ashland, was general contractor and handled carpentry, waterproofing and caulking.







# First National Bank

West Atlantic Branch, Emporia

**Fraher and Harrison — Architects**

Mechanical Engineer, CEK, Inc. • Electrical Engineer, CEK, Inc. • Structural Engineer, Dunbar, Milbrun & Williams • General Contractor, W.F. Hamm Construction Co.

The West Atlantic Street Branch was the first step in a carefully laid plan for expansion of the First National Bank of Emporia. The building program called for a traditional design which could be easily expanded to become the bank's main office in the next few years.

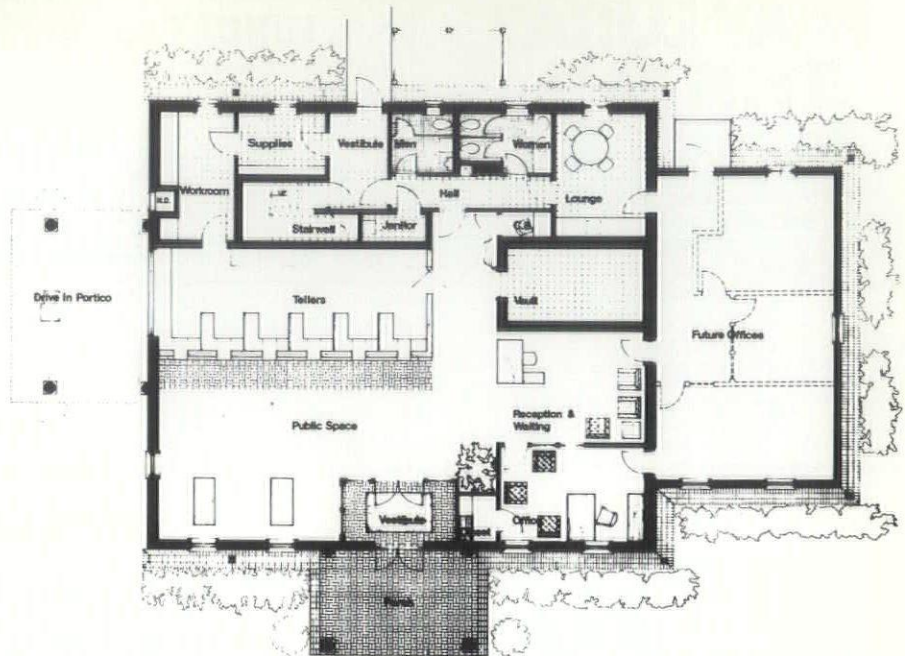
The site of the building is in a rapidly expanding commercial corridor west of downtown. Because of the location, little pedestrian traffic

would be expected and the site was planned to allow for maximum access from vehicles to the main banking lobby and to allow ample standing space for vehicles using the drive-in facilities.

The building contains 3,025 square feet of finished space and 740 square feet of unfinished space on the first floor and 2,235 square feet of unfinished space on the second floor. Construction







**First Floor Plan**

on was completed in April 1979. The general contractor was W. F. Hamm Construction Company of Petersburg.

#### Subcontractors & Suppliers

Wisco, Inc., Emporia, excavating & paving contractor; Ragsdale & Davis, Petersburg, concrete finishing; Hercules Steel, Jarratt, reinforcing, steel supplier & steel erection; Garrett, Moon & Pool, Inc., Blackstone, concrete sup-

plier; Jones & Meredith, Kenbridge, masonry contractor; John R. Houck Co., Richmond, steel joists; L. D. Kennedy, Emporia, carpentry; Hanover Fabricators, Ashland, wood trusses; and Weaver Brothers, Inc., Newport News, millwork.

Also, Tri-City Plumbing & Heating Co., Petersburg, built-up roof; Roofing & Supplies, Inc., Richmond, roof shingles; Architectural Hardware, Inc., Richmond, metal doors & frames;

Pleasants Hardware, hardware supplier; H. E. Satterwhite, Inc., Richmond, ceramic tile & brick paving; Fendley Floor & Ceiling Co., Richmond, acoustical treatment & carpet; Chapman & Martin, Inc., Amelia, painting contractor & wall covering; Daniel Brothers, Lawrenceville, plumbing/heating/ventilating/air conditioning/electrical contractor; and Meyer & Meyer, Richmond, draperies and window treatments.





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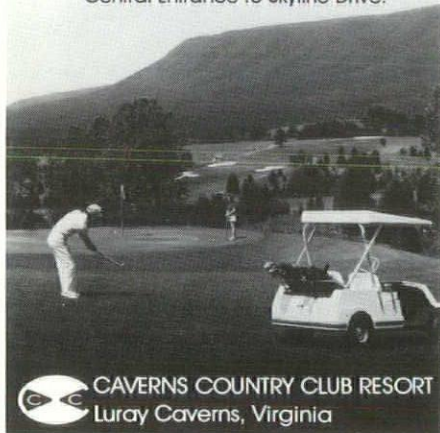
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Hagerstown  
MARYLAND

## Summer is Waning But There's Still Plenty to Do

(Information Courtesy of Travel Development Department, Virginia State Chamber of Commerce 1980 Calendar of Events. dates subject to change by localities.)

### Late August

Doswell

August 25-31 EAST COAST COUNTRY MUSIC CHAMPIONSHIPS Kings Dominion, I-95 at Doswell, (Route 28 exit 20 miles north of Richmond, VA. Seven days of the best of Virginia's Country and Bluegrass performers from Aug. 25 through Aug. 31. Each of the seven days there will be ten regional bands competing for cash prizes. 9 a.m. to 8:00 p.m. Pay one price, general admission to Kings Dominion. Mr. Lin Benfield, Box 166, Doswell, VA 23047, c/o Kings Dominion 804/876-3371.

Lexington

August 30 ROCKBRIDGE COMMUNITY FESTIVAL event is held annually on the Saturday before Labor Day. Artists and craftsmen offer their wares for sale. Demonstrations of traditional skills such as blacksmithing, weaving, butter making, candlemaking, etc. 10:00 a.m. to 5:00 p.m. \$10.00 for exhibitors, but has not been decided for the 1980 festival. Greg Raetz, Harer & Goss, Lexington 24450, P.O. Box 916, 703/463-7121.

Breaks

August 30-Aug. 31 TRI-STATE AUTUMN GOSPEL SING. Tri-State Autumn Gospel Sing. Breaks Interstate Park, Breaks, VA. Quartets from several states invited. to 10:00 p.m. on Aug. 30, and on Aug. 31st-10:00 a.m. 5:00 p.m. Free. Ruth Hutchinson, Route 2, Box 335, Grundy, VA 24614. 703/531-8215.

Dublin

August 30 to Sept. 1 2nd ANNUAL VIRGINIA MOUNTAIN CRAFTS GUILD FAIR. Modern and traditional crafts, demonstrations and sales. Held at Claytor Lake State Park. Sat. and Mon. 10:00 a.m. til dark; Sunday n til dark. 50¢ admission to park. VA Mountain Crafts Guild, Box 1287, Dublin, VA 24084.



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## undley Annex

(From page 17)

Through-wall incremental units with spandrel glass are used for room air conditioning, with central areas served by roof-top, multi-zone package air conditioning units.

Kenbridge Construction Co., Inc. of Kenbridge is general contractor and handled sodding, grading, etc., landscaping and landscaping work, foundations, concrete work, masonry work, carpentry, wall insulation and foundation insulation.

Subcontractors & Suppliers  
(Richmond firms unless noted)

Walker Construction Co., Buffalo Junction, excavating & paving contractor; Bowker & Den, Inc., reinforcing; Concrete Structures, Inc., concrete supplier; Concrete Erectors, Inc., prestressed concrete; Lightweight Block Co., South Boston, masonry supplier; Brick & Tile Corp. of Lawrenceville, masonry manufacturer; Drews-Joyner Iron Works, Petersburg, steel supplier; Steelco Contractors, Inc., Petersburg, steel erection/joists/roof deck/grating, other deck & miscellaneous metal; Miller Manufacturing Co., Inc., handrails, millwork & woodwork; L. H. Wingfield Roofing & Metal Co., Kenbridge, waterproofing; and E. S. Chappell & Son, Inc., caulking.

Also, Consumers/Dornin-Adams, Inc., Lynchburg, built-up roof, other roofing, roof insulation sheet metal; W. H. Stovall & Co., Inc., glass, glazing contractor, windows, window wall & storefront; John J. Bagley, metal doors & frames; Pleasants Hardware, hardware supplier; Virginia Plastering Co., Fredericksburg, plaster contractor & gypsum board contractor; David Allen Co., Raleigh, NC, ceramic tile; Mann & Utley, Inc., acoustical treatment & resilient tile; M. P. Barden & Sons, Inc., painting contractor, paint supplier/manufacturer & wall covering; Cates Building Specialties, specialties; Westbrook Elevator, Danville, elevators; Commonwealth Fire Protection Co., Ashland, sprinkler contractor; W. A. Dagenhart & Son, Richmond, plumbing fixture supplier & plumbing/heating/ventilating/air conditioning contractor; Bryant-Durham Electric Co., Inc., Durham, NC, lighting fixtures/electrical equipment supplier & electrical contractor; and Roanoke Engineering Sales Co., Inc., toilet compartments.

## Some First Steps . . .

(From page 7)

offset the cost of the installation within a few years, depending on the climate.

Other areas in which we tend to squander energy include lighting (we generally provide too much) and the use of appliances, from toasters to air conditioners. Savings on lighting costs can come from simply turning off lights not in use to using dimmers, fluorescent bulbs, lower wattages and, wherever possible, that most basic of all sources — natural illumination. Appliances, too, can be wasteful, either because we use too many of them or because they offer many more conveniences than we really need. Frost-free refrigerators and "instant-on" TV sets consume far more energy than the more conventional models, and by defrosting your own freezer or waiting ten seconds for the TV picture you cut your utility bills measurably.

In such a complicated area as energy consumption, it would be foolish to suggest that any one solution will provide all the answers. The overall easing of our energy problem will come about when a wide variety of solutions are applied. By preventing energy waste now we can apply one of the first and easiest remedies. That alone is a giant first step.

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## The Wrens

(From page 19)

n, Ltd. Bethesda, MD, stonework contractor; County Asphalt, Inc., Leesburg, stonework supplier; Union Iron Works, Herndon, steel supplier; Lamar & Wallace, Inc., Landover, MD, millwork & wood doors; and Wailes and Edwards, Bethesda, MD, cabinets.

Also, J. W. Loveless Roofing & Guttering Service, Ashburn, built-up roof; J. A. Cassidy Co., Beltsville, MD, Pella windows; Southern Doors & Acoustics, Inc., Merrifield, resilient tile; P. Stevens store, Aberdeen, NC, carpet; H & S Plumbing & Heating, Herndon, plumbing contractor; and James R. Harris, Inc., heating/air conditioning/electrical contractor.

And, from Arlington, Murphy & Ames, structural wood; American Insulation Co., roof/wall foundation insulation; William Hottle, gypsum board contractor; Leonard Schneeman, ceramic tile; John Kampans, painting contractor; Duron Paints & Wallcoverings, paint supplier; Union Wallpaper & Paint Co., Inc., wall covering; and Union Electric Supply Co., Inc., lighting fixtures supplier.

## Church at Northern Va.

(From page 19)

soffits, door and window frames, and the glass.

In plan, the Nave starts out as an equilateral triangle, symbolic of the Trinity. It is covered by a simple, single sloped, roof rising uniformly to the apex of the points. From the front, this highest point dominates both the composition of new forms and the existing building. The height was dictated by the Biblical directive to build at the high point. Since this spot was already occupied by the Chapel, the new Sanctuary's high point is fixed at a level above the Chapel's apex.

As the white, split face, masonry walls at the back of the 350-seat Nave converge toward the raised chancel, attention is focused on the liturgical centers — altar, pulpit, and baptistry. The roof construction consists of laminated wood beams and a wood deck. Wood slats form the front and rear walls — housing and hiding speakers and air grilles. The floor is carpeted in a light blue.

An extensive sound system is incorporated into the Nave. Microphones are suspended from the ceiling to pick up prophecy for recording. Closed circuit television is planned in. An audio loop, enhancing sound for hearing-impaired individuals, is included.

The spacious Narthex is walled in glass north and south, split face masonry east and west. Oak trim lends warmth. Colors are subdued except for a red stripe tracing the ceiling's multi-level perimeter.

The educational portion of the building is arranged, linearly, stepping down the contour of the land. Splashes of rainbow colors are used throughout to brighten this area.

Subtle changes in angle and orientation direct views in many directions:

- the Nave overlooks the glade, and lake;
- the Narthex points to the woods;
- Classroom views take in the original cabin and Chapel of the Descending Dove.

For energy conservation, window areas are limited in size and double glazed. They are concentrated for maximum visual impact.

Heat pumps are used to provide environmental conditioning for the building. Because of the church's complicated use patterns, a sophisticated mechanical control system was installed, incorporating many energy saving features.

Together, in tangible form, the new Church at Northern Virginia makes manifest the fervent faith of its congregation.

E. H. Glover, Inc. of Bailey's Crossroads was general contractor for the project.

### Subcontractors & Suppliers

American Excavating Co., Inc., McLean, excavating; Craven's Nursery, Fairfax, landscaping; National Asphalt Paving Corp., Merrifield, paving contractor; Bowie Steel, Bowie, MD, reinforcing; Innamorato Construction Co., Inc., Alexandria, masonry contractor; Perry Steel Sales, Inc., Silver Spring, MD, steel supplier; Hallmark Iron Works, Inc., Newington, miscellaneous metal; James H. Carr, Inc., Kensington, MD, structural wood; Arlington Woodworking & Lumber Co., Inc., McLean, millwork; and Prospect Enterprises, Inc., McLean, waterproofing.

Also, Orndorff & Spaid, Inc., Beltsville, MD, roofing & sheet metal; AC&R Insulation Co., Inc., Beltsville, MD, roof/wall/foundation insulation; Woodbridge Glass Co., Inc., Woodbridge, glass; Bilt-Rite Steel Buck Corp., Greenbelt, MD, metal doors & frames; James A. Cassidy Co., Inc., Beltsville, MD, windows; J. B. Kendall Co., Washington, DC, hardware supplier; T. M. Woodall, Inc., Takoma Park, MD, gypsum board contractor & acoustical treatment; McClary Tile, Inc., Alexandria, quarry tile; and Fairfax Tile & Linoleum Co., Inc., Alexandria, resilient tile & carpet.

And, F. W. Harris, Inc., Annandale, plumbing contractor; Perrin & Martin, Arlington, heating/ventilating/air conditioning contractor; Dominion Electric Supply Co., Inc., Arlington, lighting fixtures supplier; Becker Electric Co., Inc., Alexandria, electrical contractor; Taylor Lumber & Supply Corp., Rockville, MD, trusses; and McCarthy Manufacturing Co., Inc., Alexandria, sound system.

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## Messiah Church

(From page 31)

PROGRAM—To an existing religious facility, provide a 13,400 SF addition to include:

SANCTUARY—6,200 SF, to seat 450 persons in the Nave plus 50 persons in the choir; client insisted on a central aisle and the Chancel separated from the Nave.

COMMONS—1,800 SF, to serve as a gathering place before and after services; an overflow space for special holidays; the main hall for social functions.

ANCILLARY WING—5,400 SF, to provide specialty spaces including: administrative offices for the pastor and staff; a lecture room which can serve as a chapel, choir robing and rehearsal room; support spaces.

E. H. Glover, Inc. of Bailey's Crossroads was general contractor for the church.

### Subcontractors & Suppliers

American Excavating Co., Inc., McLean, excavating; Newton Asphalt Co., Inc. of Va., Alexandria, paving contractor; Bowie Steel, Bowie, MD,

reinforcing; Jones Masonry Co., Fairfax, masonry contractor/supplier & mortar; Perry Steel Sales, Inc., Silver Spring, steel supplier/erection/joists/roof deck; Hallmark Iron Works, Inc., Newington, miscellaneous metal & handrails; Structural Systems, Inc., Gaithersburg, MD, structural wood; Arlington Woodworking & Lumber Co., Inc., McLean, millwork, paneling, cabinets & wood doors; Prospect Enterprises, Inc., McLean, waterproofing; and Wilmar Contractors, Inc., Vienna, caulking & painting contractor/supplier.


Also, Virginia Roofing Corp., Alexandria, built-up roof, roof insulation & sheet metal; Cedar Roofs, Inc., McLean, other roofing; Davenport Insulation, Inc., Springfield, wall insula-

tion; Allen Glass Co., Inc., Alexandria, glassing contractor; The Ceco Corp., Bladeburg, MD, metal doors & frames; James A. Cassidy Co., Inc., Beltsville, MD, windows; W. Weaver & Sons, Inc., Washington, DC, hardwood supplier; Dodd Brothers, Inc., Falls Church, plaster contractor & gypsum board contractor; McClary Tile, Inc., Alexandria, ceramic tile; Southern Maryland Floors Co., Waldorf, resilient tile & carpet; A-Citywide Cooling Heating Co., Inc., Annandale, plumbing fixture supplier & plumbing contractor; Air Move Inc., Springfield, heating/ventilating/air conditioning contractor; and Milton G. Connor Co., Inc., Alexandria, lighting fixtures/electrical equipment supplier & electrical contractor.

## INDEX TO ADVERTISERS

—A—	
Able Equipment Co., Inc.	24
Appomattox Hardware Co., Inc.	40
Artisan, Inc.	40
Atlantic Contractors Equipment & Supply, Inc.	8
—B—	
Bay Electric Co.	18
Binswanger Glass Co.	3
Buckingham-Virginia State Corp.	44
—C—	
Capital Masonry Corp.	22
Cedar Shake & Shingles, Inc.	22
Chesapeake Masonry Corp.	42
Clifton Floor & Tile Service	41
G. L. Cline & Son, Inc.	16
Colonial Printing & Stationery Co.	38
Concrete Repair Specialists	18
S. B. Cox	24
—D—	
John W. Daniel & Co., Inc.	39
Daniels & Ingram Masonry Contractor	9
Dujai's Carry Out	38
G. T. Duke Co., Inc.	3
—E—	
J. T. Eley, Jr.	39
Ellis Radiator & Jack Service, Inc.	38
J. B. Eurrell Co.	18

—F—	
Festival Flags Ltd.	
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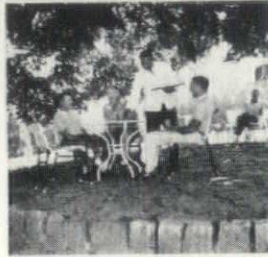
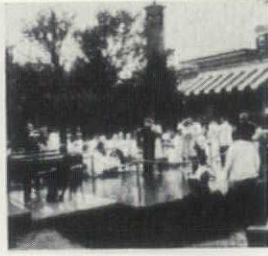
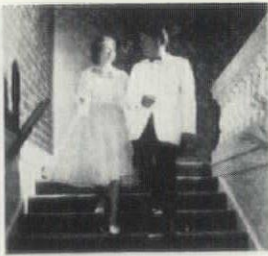
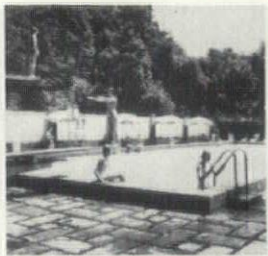
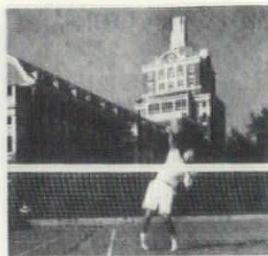
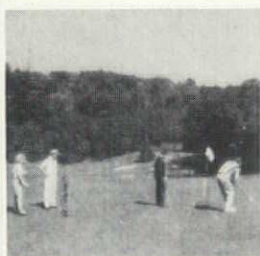
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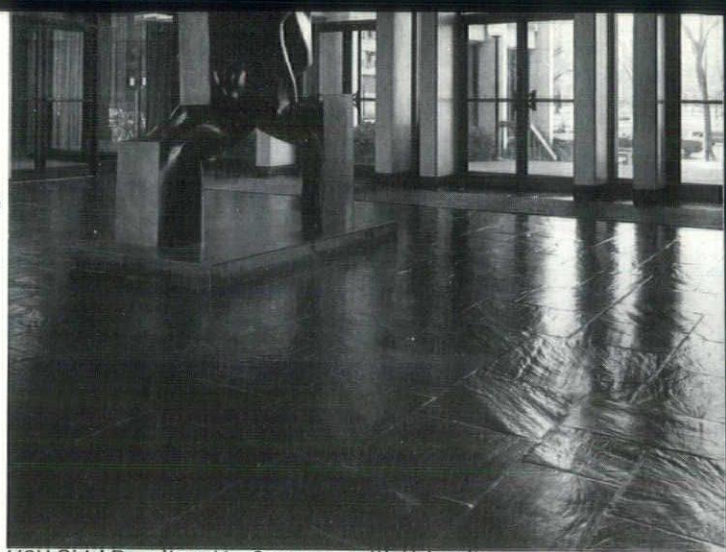
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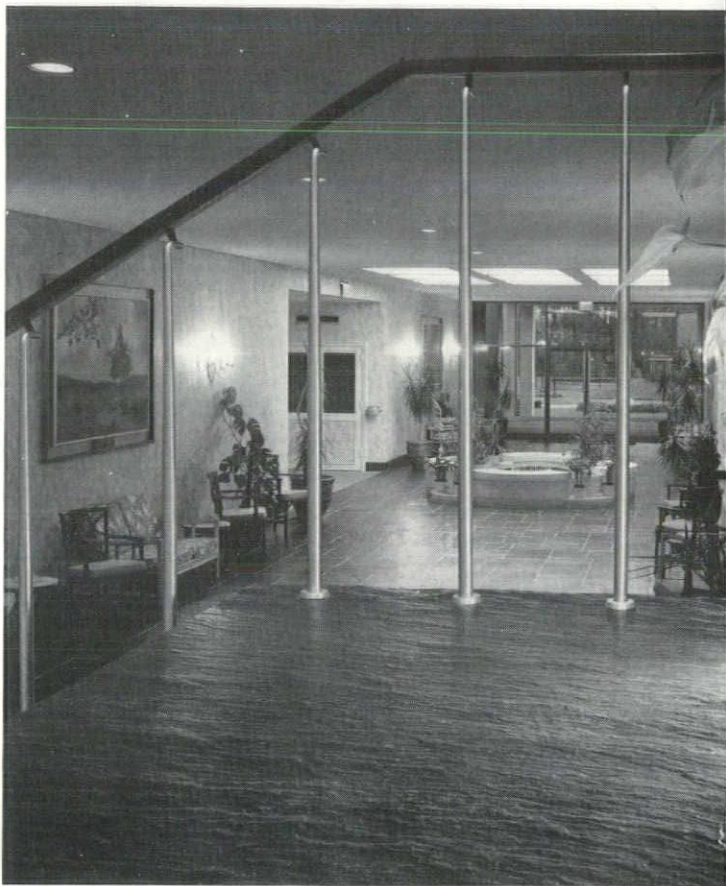


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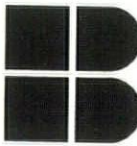
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