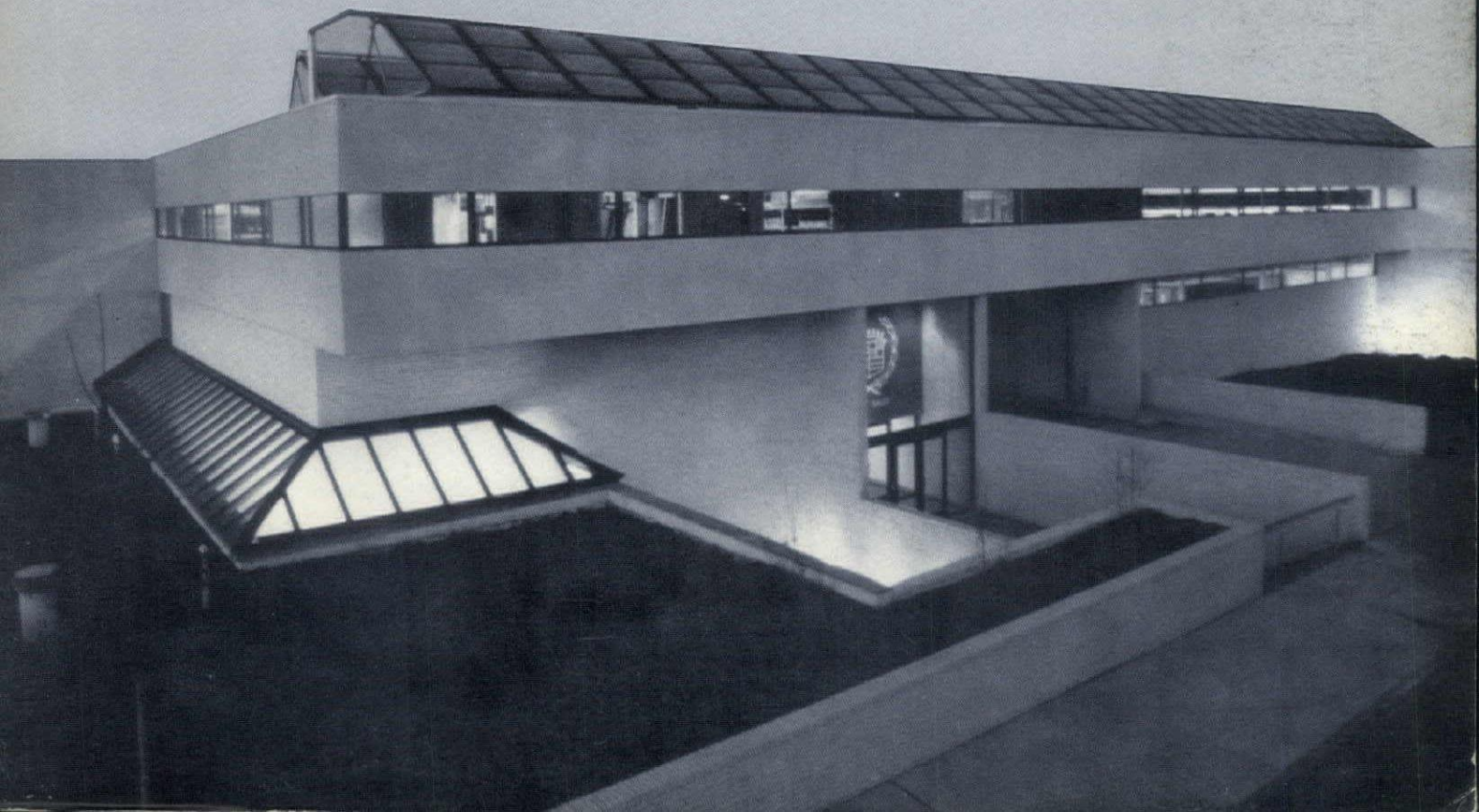
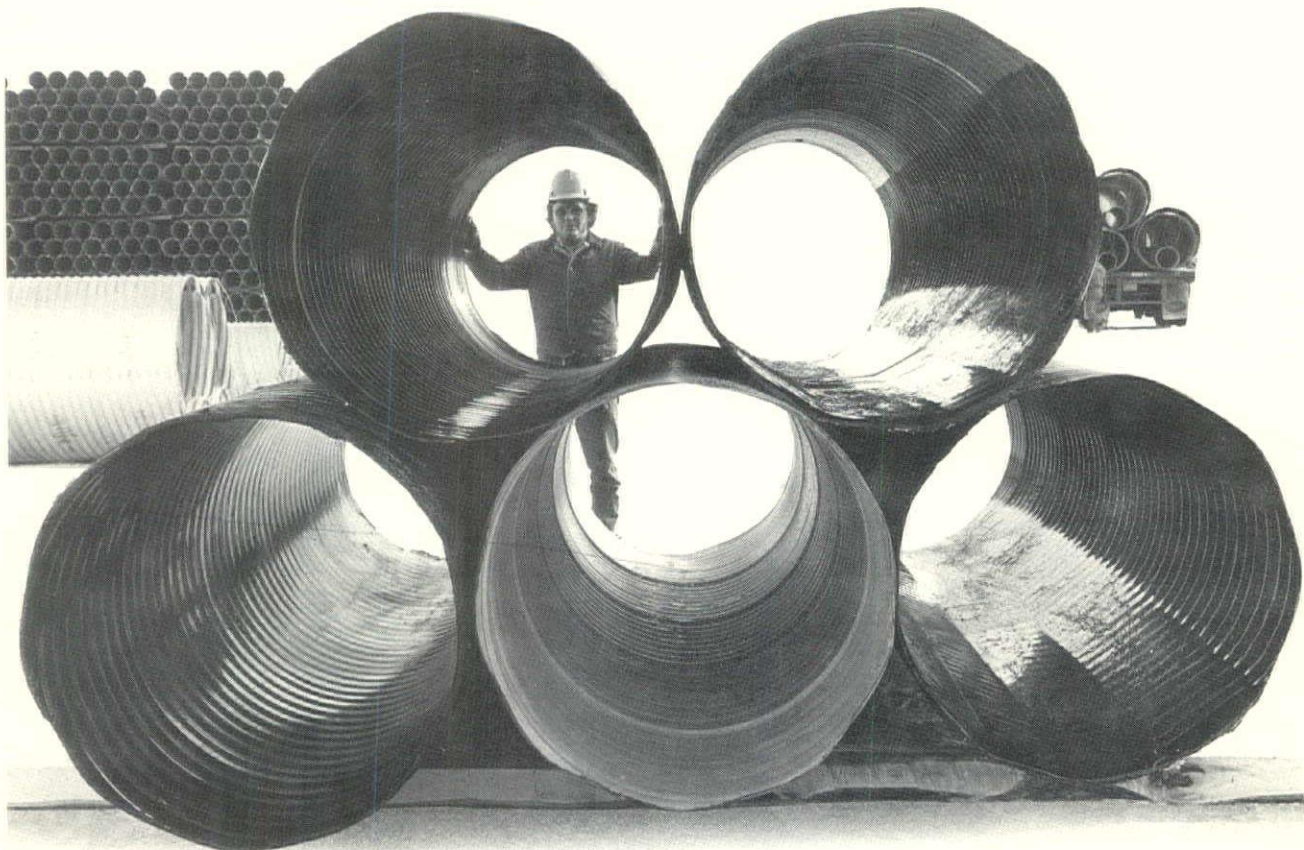


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A decorative illustration of holly leaves and berries, rendered in black ink, positioned to the left of the text "and the". The leaves are pointed and serrated, while the berries are small and round.

From
**The Staff of
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ON OUR COVER is the Lindsay Cadillac Company. Phase 2 of this project is presented on page 26 of this issue by Architects Group Practice, of Alexandria.

December 1979

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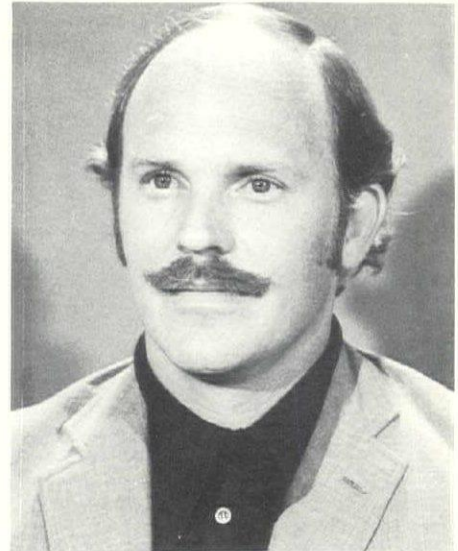
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By
Frederick E. Baukhages, IV, AIA

Adaptive Re-Use

In these times of dwindling resources, it seems almost sinful to reject materials because they are old and used. And in these times of supersonic flight toward the future, it seems cold and callous to ignore the aesthetic contributions of our past. Too often, however, this is what happens as progress-oriented people tear down the old and rebuild right on top of the old foundation.

This practice is wasteful in terms of energy, cost and time, and, until recently, was the normal way of going about the business of progress. We are, however, discovering that there is an alternative. There is a movement building to preserve old structures where feasible. In the past, first priority went to historic buildings but all old buildings are not historically valuable. Now a new school of pragmatic architecture is coming to the fore. It is adaptive re-use and it seeks to extend the life and increase the usefulness of old structures and areas, a philosophy which had a wide variety of applications and should be considered prior to a demolition and rebuild decision.

Adaptive re-use combines the best innovations of modern technology and inventiveness with the best features and original spirit of old structures and landmarks. The many evidences of re-use already accomplished, from waterfront areas to mid-city complexes and small town main street, make maximum effective use of space and modern conveniences while preserving the structure's original spirit. Re-use is energy efficient, cost efficient, and time efficient as it avoids the demolition process, bypasses the use of new building materials and shortens the construction time period.

The challenge of adaptive re-use has resulted in creative uses of space as well as practical and aesthetic uses of nature for heating, cooling and ventilating. Already completed projects around the country provide examples of the value of re-use and they should stimulate imagination and provoke similar projects in other areas. One such completed project is the Navy Pier on Grand Avenue in Chicago where 60-year-old structures abandoned for 35 years were re-done as a lakeside recreational center. This group of buildings was restored to provide a needed and useful facility and to take advantage of the natural forces for heating and cooling. Another project took the San Francisco Ghirardelli Square complex of warehouses and factories and transformed it to an attractive and economically successful group of shops and restaurants while returning an historic area to service and maintaining the character of the area.

One of the most successful and well known adaptive re-use projects undertaken to date is the restoration of Boston's Faneuil Hall Market Place. Three block-long buildings, constructed as early as 1826, containing markets, warehouses and retail stores had deteriorated and were near total abandonment. The area was redesigned and has become a vibrant setting for restaurants, sidewalk cafes, delicatessens, specialty food shops and numerous stands selling all manner of goods. The complex links Boston to this historic location as it fans out on all four sides to the rest of the city and uses natural cooling, heating and ventilation methods wherever possible. Other examples are evident in the San Francisco Cannery where a vertical expansion recreated the ancient concept of the marketplace and at Canal Square in Georgetown where a village within a village was created to blend with the bustle of the commercial area on one side and the quiet of the canal on the other, while maintaining the industrial look of the original warehouse.

The diversity of these projects and the wide range of other adaptive re-use applications should tell us that there are numerous other areas where these principles can be applied. All we need is a little inventiveness in conjunction with a desire to preserve a piece of our past for the betterment of our future.

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Teddle Named Vice President

Oliver, Smith and Cooke, Ltd., architects and planners, recently announced the election of Don E. Teddle to the office of Vice President for Business Development.

Mr. Teddle joined the firm as Director of Marketing in 1977 and has been involved in public relations, market research and promotional activities. In addition to prior technical experience with interior design and architectural firms in Houston and Chicago, he was previously business and marketing director of a multi-discipline professional firm in the Tidewater area.

Mr. Teddle is active in the Society for Marketing Professional Services, and is a member of the Norfolk Harbor Front Kiwanis Club and the Norfolk Photographic Club. He completed the Bachelor of Architecture degree program at Texas A&M University and later earned a Master of Business Administration degree from the University of Texas.

He currently resides in Norfolk with his wife and daughter.

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DONALD W. TATE, Associate
With Baskerville & Son
1976 Graduate of Virginia Polytechnic Institute
& State University
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STANLEY W. DAWSON, JR., AIA
Maintains his practice in Kilmarnock
1967 Graduate of Virginia Polytechnic Institute
& State University
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ROBERT L. VICKERY, AIA
Teaches at University of Virginia and
Maintains his practice in Charlottesville
Graduated from University of Missouri with a
degree in Journalism;
Degree in Architecture
from Washington University
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LANNY NEIL MAHONE, AIA
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With University of Virginia
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ROGER D. RICHARDSON, Associate
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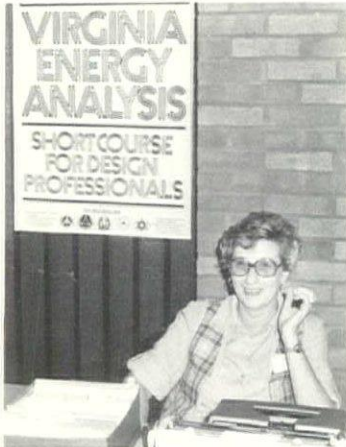


JEFFREY R. WOOD, Associate
With Chenault & DePasquale
1977 Graduate of University of Virginia
James River Chapter

(Continued)

VIRGINIA SOCIETY AIA FALL MEETING

Fredericksburg
September 28-29, 1979



Mrs. Helen Cougill, Virginia Society, AIA, secretary, eagerly registered architects at the Fall Meeting of the Society in Fredericksburg.



Society President Pete Anderson (right) presents Tom Kamstra with his Past President's plaque for 1978. The presentation was made at the Awards Luncheon.



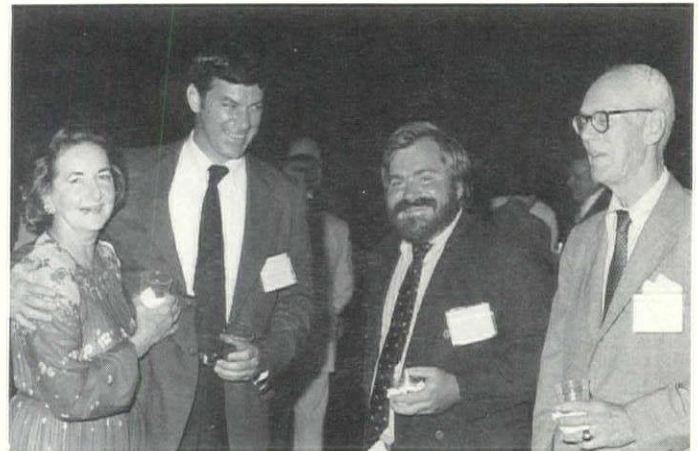
Northern Virginia Chapter, AIA, officers at the President's Reception. Left to right: Walt Brown, President and Mrs. Brown; Mike LeMay, Immediate Past President; and Mrs. Larry Cook, wife of the Treasurer.



Distinguished members at President's Reception: Mrs. Beery and Edgar Beery, a recipient of the Society's Distinguished Service Award.



Bill Monroe (right), President of the Tidewater Chapter, chats with Mr. & Mrs. Paul Quigg of Annandale during the President's Reception.



Mrs. Edgar Beery, J. Everette Fauber, III, Juan O. Chaves and Herbert L. Smith, FAIA, at the President's Reception.



MEETING PARTICIPANTS
WERE INVITED TO A
BAR-B-QUE
AT HISTORIC BELMONT
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Photography by Paul H. Barkley

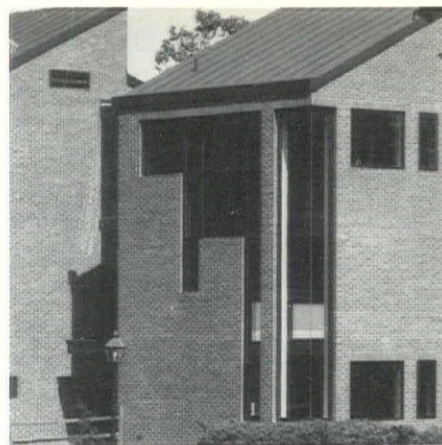


Mr. & Mrs. Danny Bolt of Roanoke are served a full helping by the Solite bar-b-que chefs.



A bluegrass quartet entertained guests during the Solite bar-b-que at Belmont.





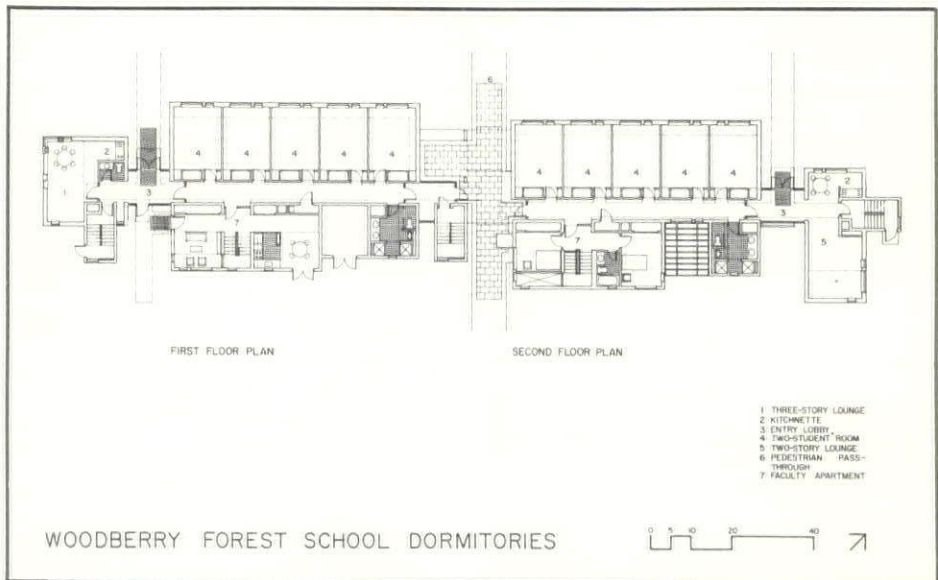
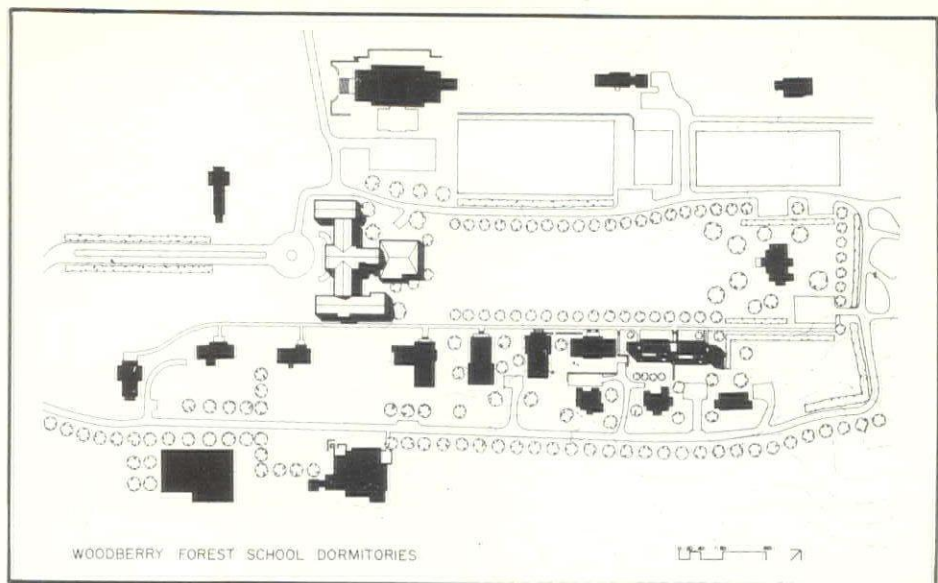
Dowd & Finch Halls

Woodberry Forest School

The Vickery Partnership — Architect

Landscape Architect, The Vickery Partnership •
 Interior Design, The Vickery Partnership •
 Mechanical Engineer, Hankins & Anderson, Inc. •
 Electrical Engineer, Hankins & Anderson, Inc. •
 Structural Engineer, Harris, Norman & Giles. •
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 Photography, John Stubblefield and The Vickery Partnership.





The design for two new dormitories — Dowd and Finch Halls — for Woodberry Forest School, represented a challenging task in integrating new buildings within an older existing campus environment. The school has a magnificent central green lawn area, lined with Georgian-styled dormitories, and the sites chosen, at the southeast corner of the central lawn, were the last two available along this dormitory row.

Accordingly, careful attention was given to reflecting and continuing the height and roof lines of the older structures.

A further program requirement was to attach two faculty house units *directly* to the dormitories. Each of these small houses faces south, toward other faculty housing. And, each has its own private outside living space, as well as individual entryways.

Within the dormitory itself, there are only 10 students per floor, with all student rooms facing the lawn view (and thus, away from the faculty housing). The lounges are treated as special places with an entry to each dormitory house between the sleeping area and the lounge. The lounges may thus be used by visitors while other students are still sleeping.

Finally the two dormitory houses are broken apart with an open area between them, increasing the sense of separate identity. At the upper levels, there is a link over this opening which contains three single rooms, for the student proctors, located exactly in the middle of the dormitory buildings.

Hopefully, the new Dowd and Finch Halls reflect the best of Woodberry Forest School's past heritage, while remaining modern in plan and concept, looking forward to the future.

R. E. Lee & Son, Inc. of Charlottesville was general contractor and handled paving, foundations, concrete work, masonry work, carpentry and gypsum board. The owner handled sodding, seeding, etc. and landscaping.

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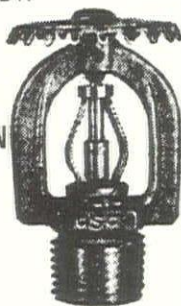
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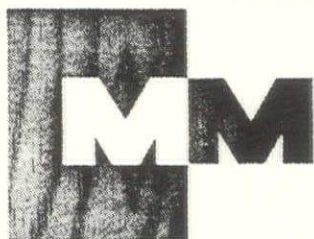
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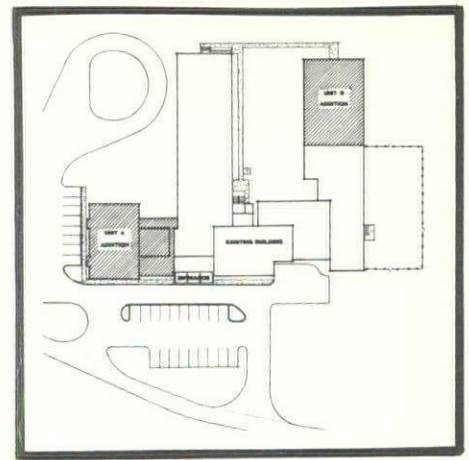
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Cloverdale Elementary School

Addition No. 2 — Botetourt County

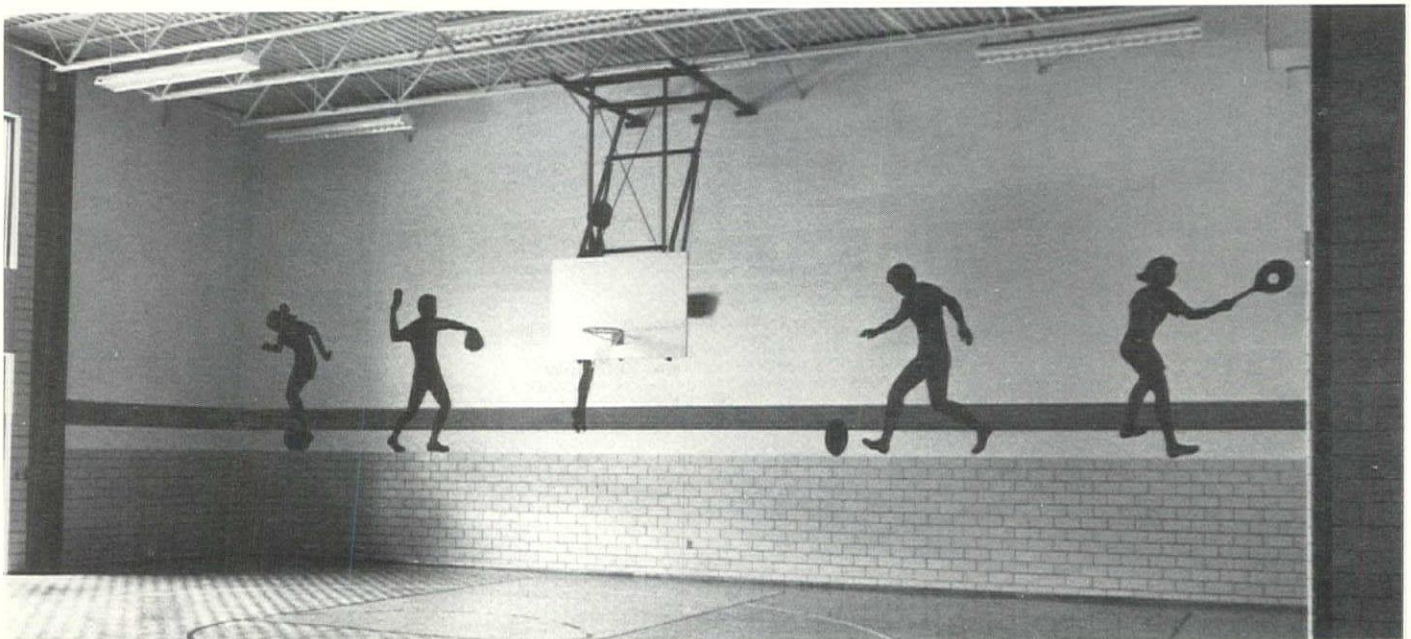
Sherertz, Franklin and Shaffner — Architect

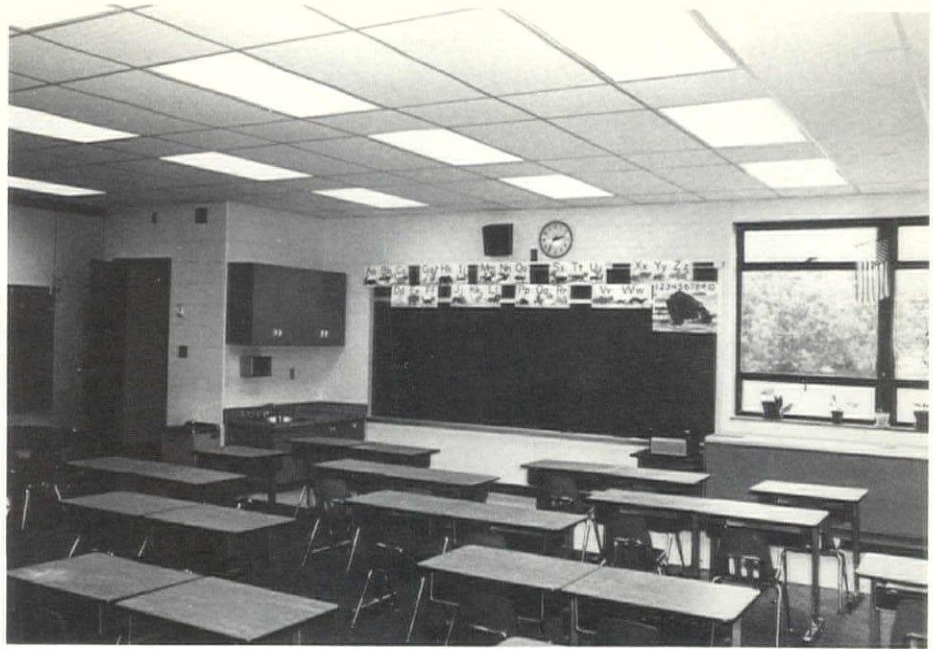
Interior Design, Sheretz, Franklin & Shaffner • Mechanical Engineer, Sowers, Rodes and Whitescarver • Electrical Engineer, Sowers, Rodes and Whitescarver • Structural Engineer, Sherertz, Franklin & Shaffner • General Contractor, Hodges Lumber Corporation • Photography, Sherertz, Franklin & Shaffner.

The additions to Cloverdale Elementary School, completed in July 1979, include the addition of a gymnasium and a classroom wing, along with sewage disposal facilities for the entire school.

The Gymnasium Addition, Unit A, contains approximately 6,460 square feet of floor area and houses the gymnasium/auditorium, the music room, the toilet facilities, and other related support areas.

The interior of the gymnasium/auditorium has incorporated the use of supergraphic treatments for pleasing color harmony and visual interest.





The Classroom Addition, Unit B, contains approximately 6,240 square feet of space to house about 150 new students. Six (6) classrooms make up the new wing. Each classroom is self-contained since each has its own toilet facilities and project work areas. The divisions or separations between the class spaces and the corridor take the form of movable wardrobe units, chalkboard and tackboard units and other movable furniture.

Both structural units are single story construction made up of load bearing and non-load bearing masonry walls and utilize a metal deck, structural steel and open web steel joist roof system. All exterior walls, as well as the roof, are sufficiently insulated to provide for the conservation of energy to the extent practical. The exterior finish is of brick masonry to blend with the existing construction. All new areas will be air conditioned spaces utilizing all-

electric systems since gas is not available in this area.

In addition to the above, certain demolition and alterations to the existing building were required, along with site improvements. Three existing classrooms were converted into three kindergarten classrooms having easy access to a new kindergarten play area. This play area is completely enclosed by a chain link fence. The main entrance to the administrative area was altered and air conditioning was provided in the offices of this area.

Because of the new load on the existing sewage disposal system and because of past problems with the existing system, a new drainage field system was required in order to meet the needs of the school.

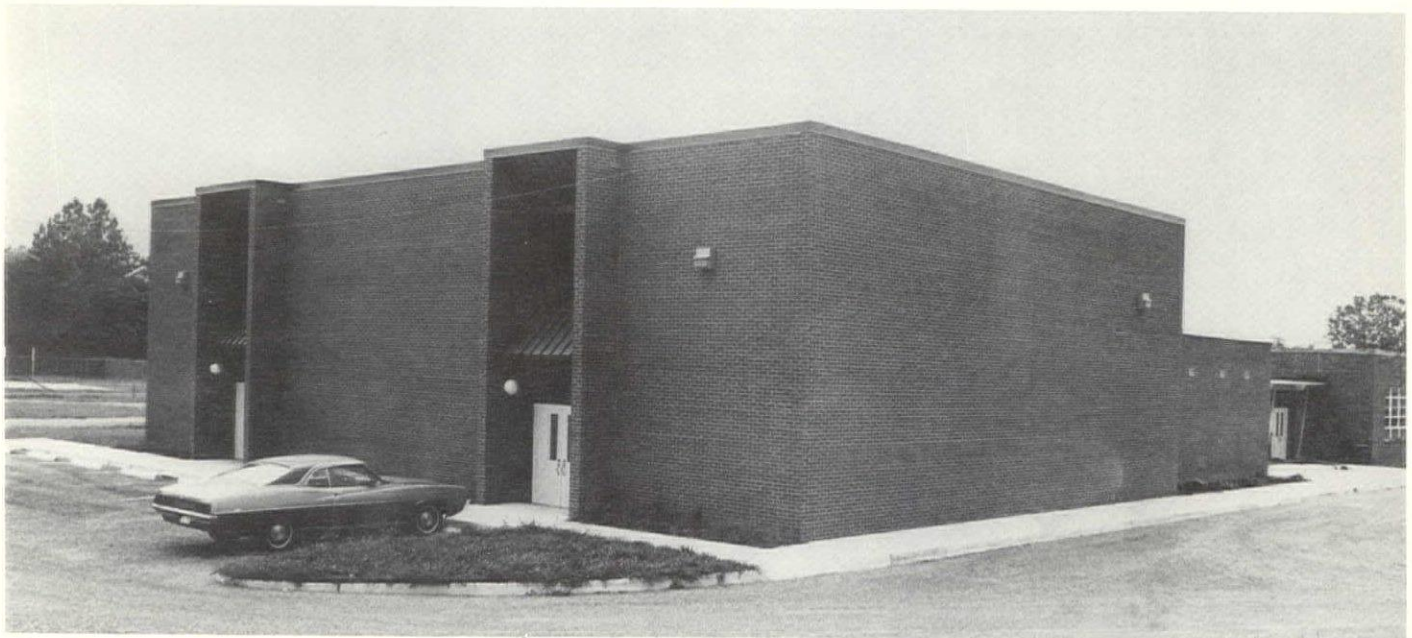
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(Continued on page 44)

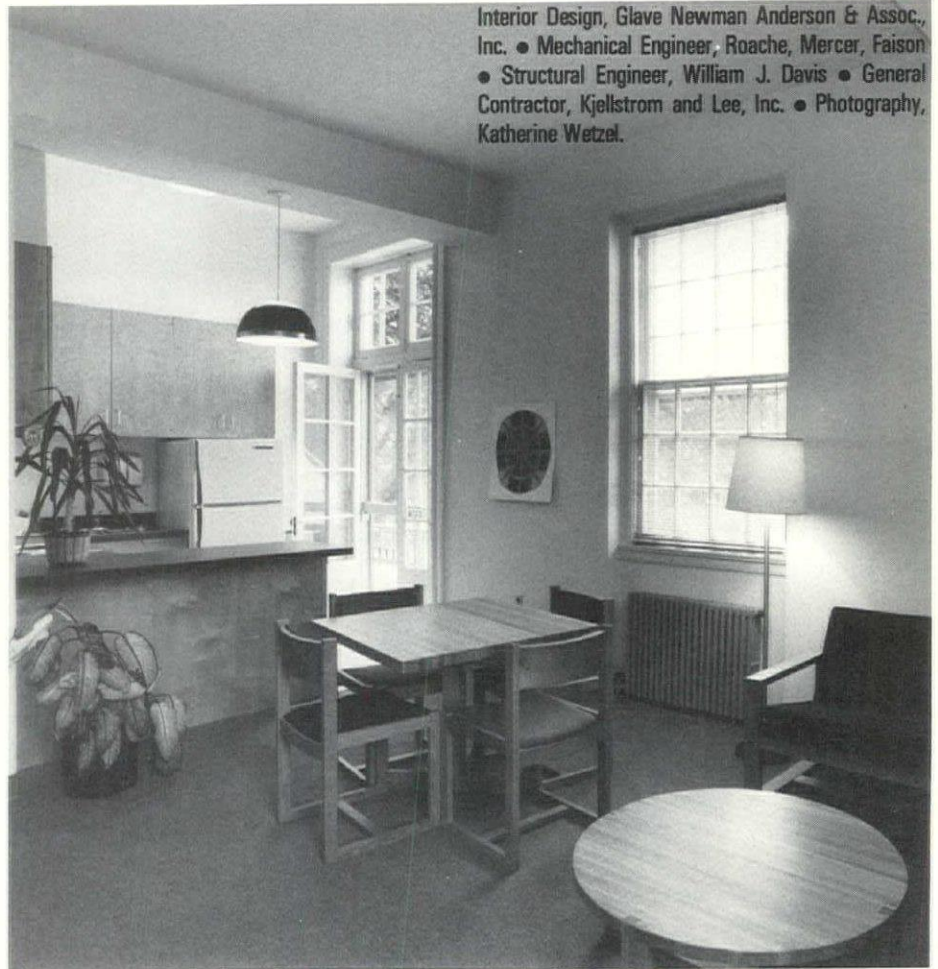




Ellett Hall Renovation

St. Catherine's School — Richmond

Glave Newman Anderson & Associates, Inc. — Architect



Interior Design, Glave Newman Anderson & Assoc., Inc. • Mechanical Engineer, Roache, Mercer, Faison • Structural Engineer, William J. Davis • General Contractor, Kjellstrom and Lee, Inc. • Photography, Katherine Wetzel.

Ellett Hall, built in 1923, is a classroom/dormitory building for St. Catherine's School in the west end of Richmond. Since its construction it had received only minor alterations, and by the late 1970s was in need of complete refurbishment.

The firm of Glave Newman Anderson and Associates, Inc. worked closely with a committee of boarding students, faculty members and house counselors to outline a program which would accommodate the needs

of all the people who would use the building. The result was a reorganization of the teaching spaces and an improvement in the quality of the dormitory rooms on the upper floors.

The arrangement of classrooms on the ground floor was modified to work with the improved stairs of each end of the building. Six classrooms each holding approximately twenty-five students, and another small room available for use as a computer room were provided on the first floor level. The floor has an improved and more appropriate light level and acoustical environment. Additional toilet facilities are provided and the corridors are treated as exhibition spaces. The entire first floor now has carpeted floors, acoustical ceilings, and contains all new finishes and furniture.

Seventeen dormitory rooms on the second and third floors now house two students each, providing for a slightly larger number of boarding students in the building. The new bathrooms have an increased number of fixtures, and are more efficiently arranged. In addition, the facility now includes a laundry at the end of each hall. A "bedsitter" apartment was added on the third floor for two graduate students acting as advisors. On the second floor, a larger apartment with a living room, bedroom small kitchen and bathroom and a private entrance will allow a couple to act as house counselors.

A lounge is provided on each of the dormitory floors and a kitchen has been added on the second floor for use by all the residents of the building. Vanities are provided in many of the rooms. Like the lower levels, the entire upper levels have been carpeted with all new finishes and lighting.

The building corridors have had sprinkler and smoke alarm systems added. No exterior changes have been made, and the existing stairs have been modified to improve fire safety.

(Continued on page 45)



AFTER

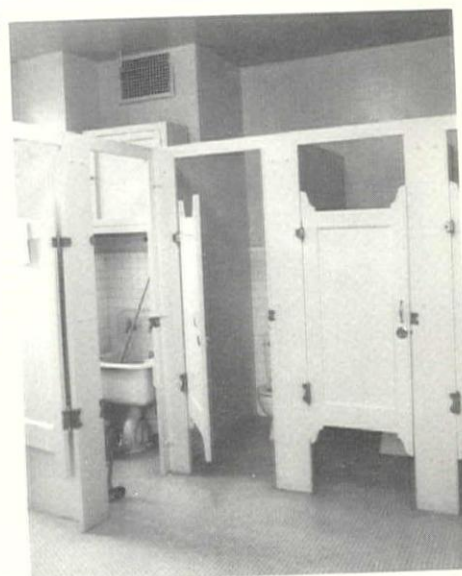
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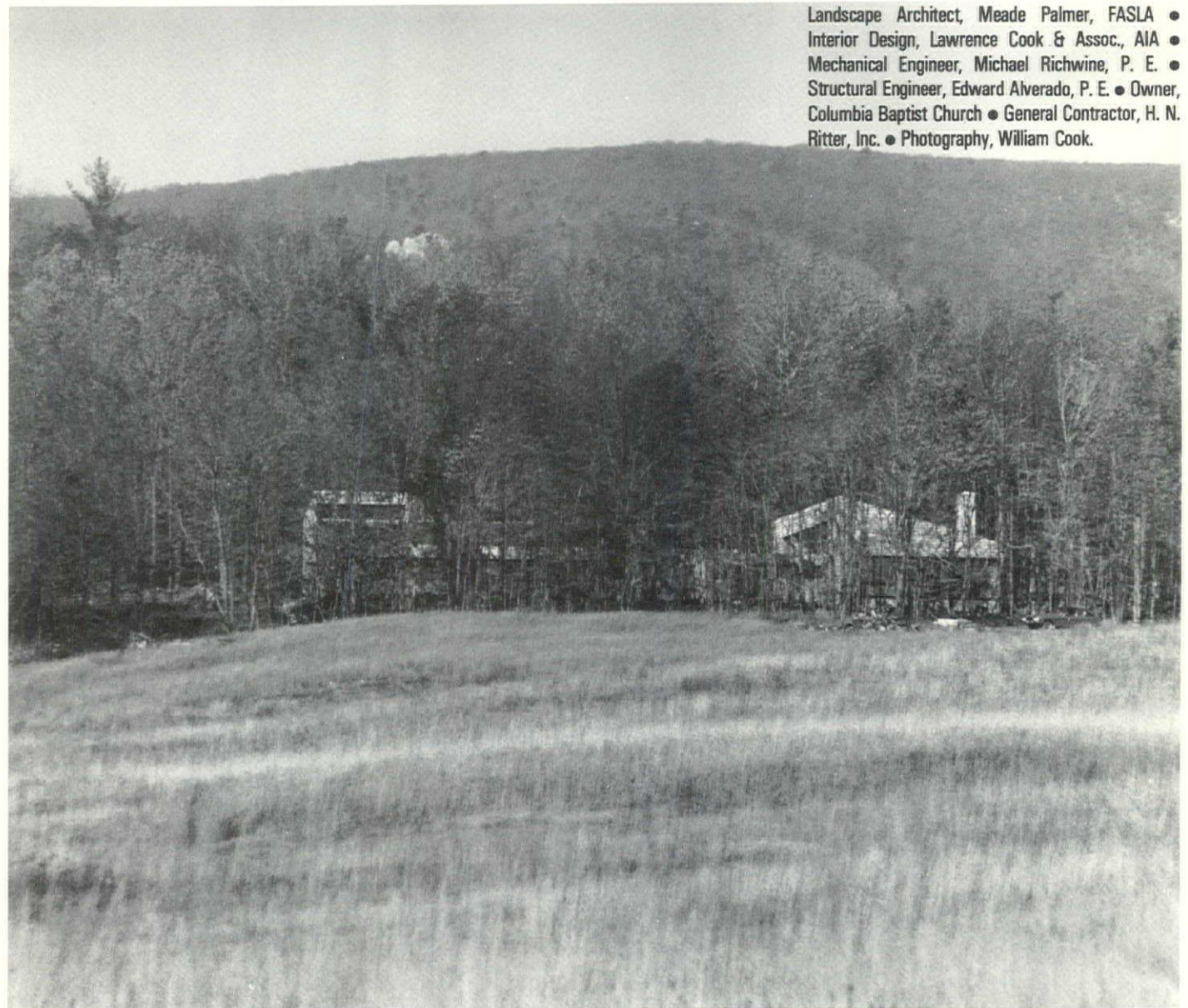




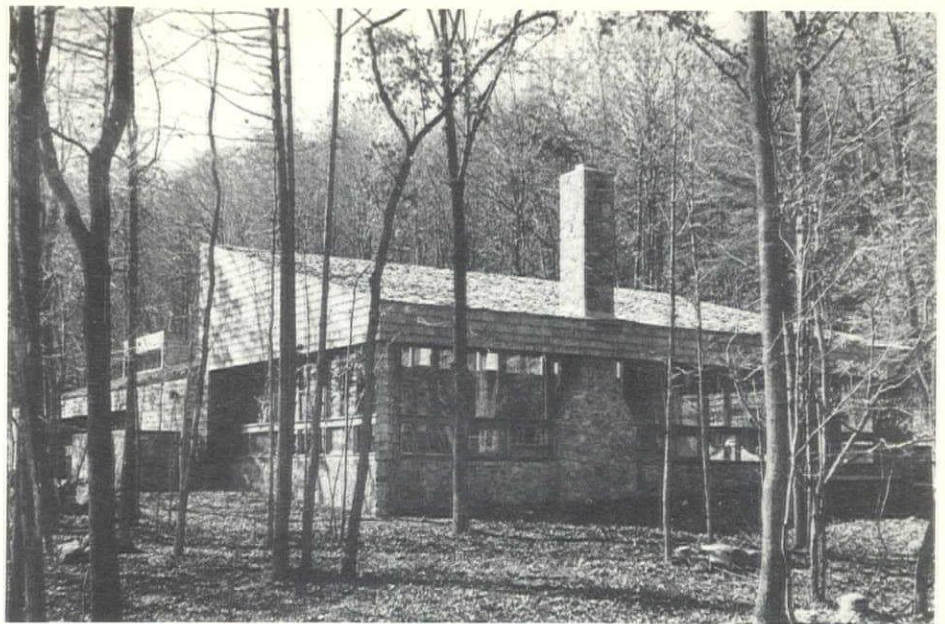
Columbia Retreat

North of Winchester — Rt. 522

Lawrence Cook & Associates, AIA — Architect



Landscape Architect, Meade Palmer, FASLA •
 Interior Design, Lawrence Cook & Assoc., AIA •
 Mechanical Engineer, Michael Richwine, P. E. •
 Structural Engineer, Edward Alverado, P. E. • Owner,
 Columbia Baptist Church • General Contractor, H. N.
 Ritter, Inc. • Photography, William Cook.



PROGRAM Provide an all season, multi-use, mountain retreat to enhance the spiritual and social growth of all age groups of a large congregation. Planning was done on site.

LOCATION An 85-acre farm in a rural area less than two hours drive from the metropolitan area in which the congregation is located.

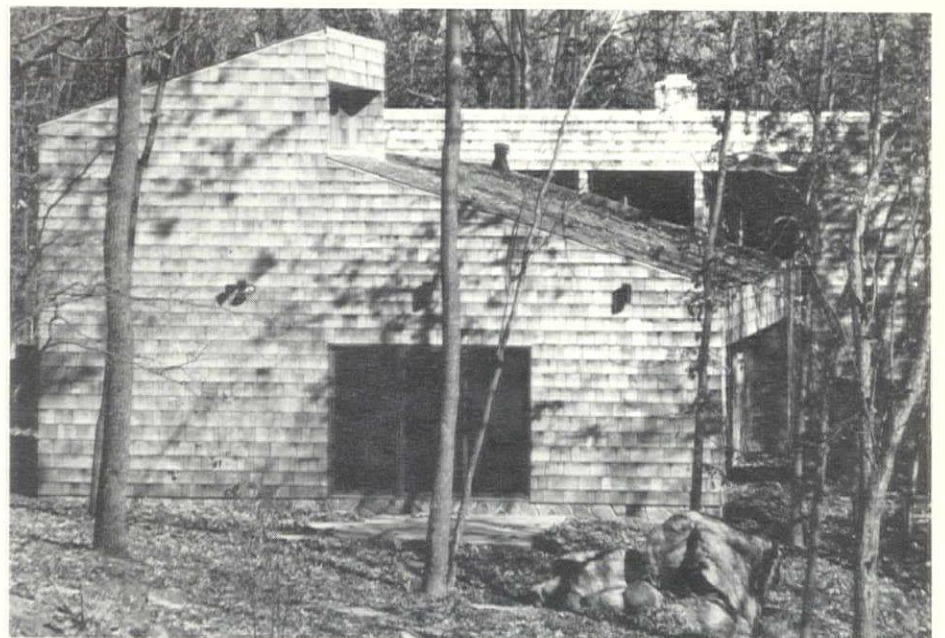
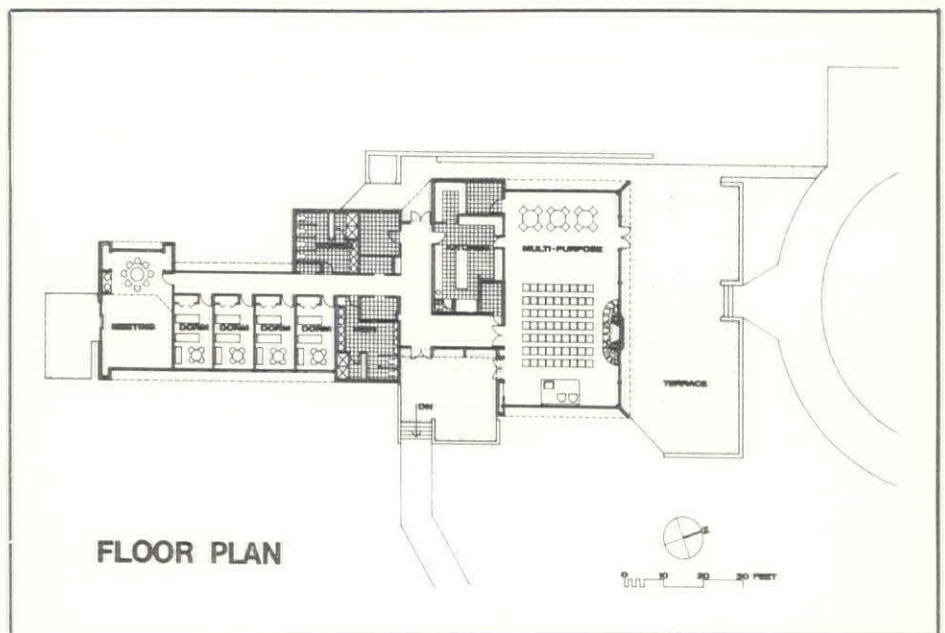
MASTER PLAN The master plan was designed to blend with nature by utilizing the natural beauty of the site. Development was scheduled into three phases over a ten year period with much of the work to be executed by volunteer help from the congregation.

PHASE 1 Completed by general contractor: Lodge, main road, parking and four acre pond.

PHASE 2 In progress by volunteer help: prayer garden, amphitheater, entrance sign, clearing of trails and camp sites, construction of pavilions, ballfields, seeding and reforestation.

PHASE 3 In future by general contractor: cabins, swimming pool, tennis courts and boathouse.

(Continued on page 47)





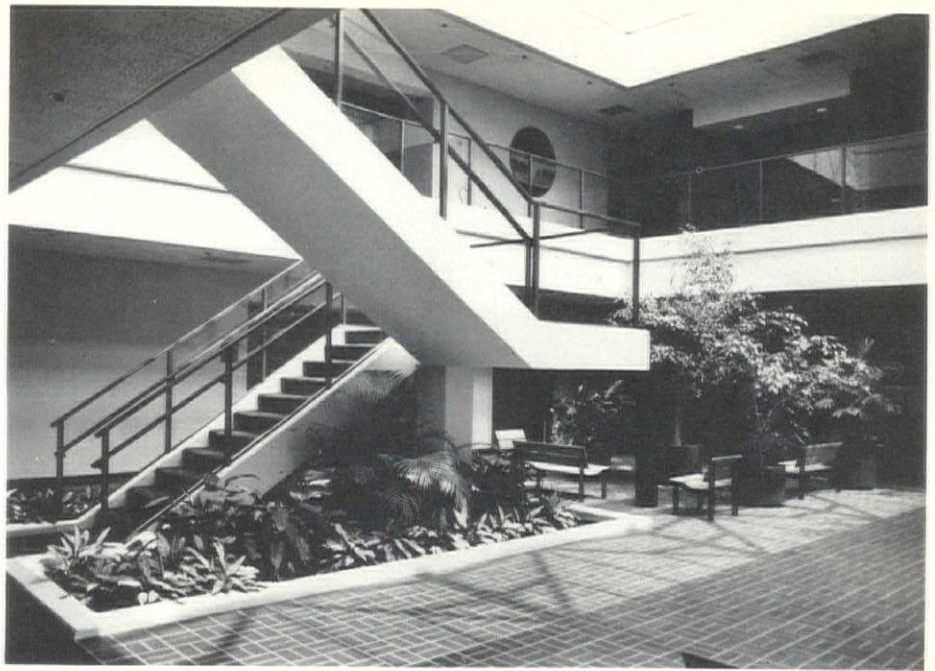
Bassett-Walker Knitting Co.

Office Building — Martinsville

Frantz & Chappelle — Architect

Interior Design, Frantz & Chappelle • Interior
Furnishings, American Furniture & Fixture Co., Inc. •
Mechanical Engineer, Sowers, Rodes & Whitescarver
• Electrical Engineer, Sowers, Rodes & Whitescarver
• Structural Engineer, Fraioli-Blum-Yesselman •
Soils Consultant, Geotechnics, Inc. • General
Contractor, Engineers-Constructors, Inc. •
Photography, Frantz & Chappelle.





Bassett-Walker Knitting Co.'s new office building serves as the administrative and business headquarters for the company's various plants. The building is located 250 feet from the banks of the Smith River on a site adjacent to its Martinsville facility. In order to elevate the building above the river's flood plain, the architects placed the two-story 44,000 sq. ft. structure on a raised landscaped podium formed by brick-faced concrete retaining walls.

One of the major challenges the architects faced was to determine the most efficient and logical plan arrangement to accommodate the client's diversified and complex operations. In addition to administrative office facilities, departmental areas were required for purchasing, accounting, costing, payroll and insurance, customer services, sales, invoicing, computer facilities, scheduling, shipping, and training. The client expressed a preference for open

office areas for these departments with a high degree of visibility and yet some degree of privacy. Also, the nature of Bassett-Walker's operations requires flexibility in the arrangement of partitions, and electrical, telephone, computer, and communications outlets.

The shape of the building is square with free-standing stair towers. The open-plan office areas are arranged around a landscaped two-story atrium, covered by a series of pyramidal-shaped skylights. Offices have generous glass areas with views to the outside and to the atrium. In order to meet the owner's requirements for flexibility in office arrangements, interior partitions are lightweight steel studs and gypsum drywall, and modular cellular steel floor duct systems are provided for service utilities. Departmental areas are subdivided by low movable sound-absorbing screens.

Because of relatively poor soil conditions

foundations were placed on compacted structural earth fill. The structure is steel frame with cellular steel deck and concrete floors. Exterior walls are steel studs and gypsum drywall faced with brick. Exterior column covers and roof fascias are precast concrete, and windows are bronze colored aluminum with tinted double glass. Interior partitions are exposed brick and steel studs faced with gypsum drywall. Except in service areas, drywall partitions are covered with textured grasscloth and vinyl wallcovering. Partitions in the computer room and other areas with high noise levels have sound-absorbing wallcoverings.

Floors in all office areas and corridors are covered with carpet. Floors in the entrance lobby and atrium are textured brick pavers, and vinyl asbestos tile is used in service areas. Ceilings are acoustical tile.

(Continued on page 46)



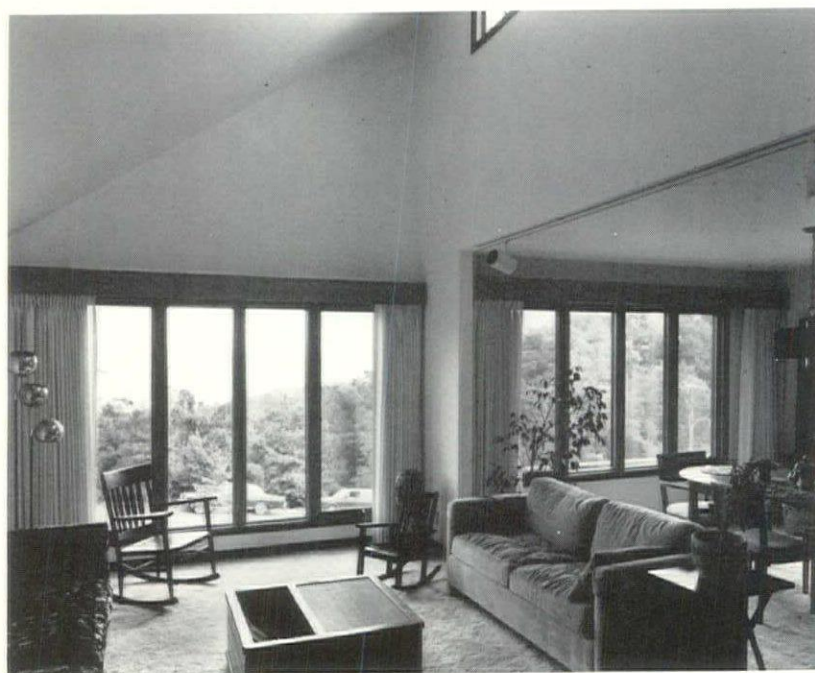


Rogers Residence

Blacksburg

Gregory & Rogers — Architect

Landscape Architect, Gregory & Rogers • Interior Design, Gregory & Rogers • Mechanical Engineer, Owen & Mayes • Structural Engineer, Richard L. Williams • General Contractor, Ralph Whitlock • Photography, Pro-Design.



This architect's personal residence was designed for the needs of parents who are both in professional occupations, and their infant daughter.

The residence design sought to include certain criteria established by the family, such as: convenient study locations for both parents; convenience in layout with all major rooms on the main floor (due to physical limitations of the wife who has a need to restrict stair climbing); easy accessibility between parent and child bedrooms; spatial zoning so that whole areas of the house could remain unheated when not used; concern for minimizing energy use within present energy technology; desire to promote child exploration as well as safety; provision of space for future expansion; and budgetary limitations.

The site presented three major elements which the owners wished to incorporate: prime view of mountains and valley to the East; excellent exposure for solar applications; and site elevation which varies approximately 30 feet between north and south boundaries.

The residence is organized into five major areas. The first level is only partially complete, remaining as future expansion space. Two main areas include bedrooms/bath and study/work/recreation areas. A main feature of the first level is the central study/work room which is designed for several purposes including greenhouse activities utilizing a long passive solar wall, study space, guest area, and space for freezer, potting of plants, etc.

The second floor contains three primary areas oriented to the family cycle of activities, the mechanical system, and passive solar design features. The primary zone consists of the master bedroom/study, bath/dress, and family room/kitchen. These spaces utilize southern window exposure, incorporate a wood stove as a central element, and are seen as the house core (or "Survival" rooms for the entire family if power fails or other emergencies so dictate).

The second zone consists of the second bedroom and bath, and laundry area.

These first two zones of the second floor constitute the everyday living space of approximately 1,100 square feet.

The third zone on the second floor includes dining/living area and guest entry. This zone is separated by doors from the other parts of the house, and normally in winter remains unheated except for solar gain through large east and south glass areas. This zone represents secondary or optional uses (entertaining, winter use when solar conditions warrant, summer family use, etc).

Building materials reflect the desire for low maintenance and include vinyl clad windows, redwood siding, and brick. The mechanical system includes a heat pump for the second floor area with dampers to shift air from the living room area to the downstairs and to the primary zone without affecting efficiency. A solar water heater system includes two collectors mounted on the south wall to achieve short piping distance and to provide summer shading to the solar wall below.

Ralph Whitlock, Builder of Blacksburg, acted as general contractor for the project.

Subcontractors & Suppliers

From Blacksburg were: W. D. Flinchum, excavating; and Epperly's Lawn Service, sodding, seeding, etc.

Christiansburg firms were: Christiansburg Lawn & Garden, landscaping contractor; Christiansburg Cabinet, Inc., cabinets; Home Insulation Co., roof insulation; Reed Lumber Co., Andersen windows; DeHart Tile Co., Inc., ceramic tile, resilient tile, carpet & special flooring; and The Sherwin Williams Co., paint supplier.

Others were: Insulation Services, Inc., Roanoke, wall insulation; Graves-Humphreys, Inc., Roanoke, hardware supplier; Service Contracting of Virginia, Inc., Radford, painting contractor & wall covering; Stevens Supply Corp., Radford, plumbing fixture supplier; Town & Country Electrical, Heating & Plumbing Service, Elliston, plumbing contractor & electrical contractor; Air Control Corp., Pulaski, heating/air conditioning contractor; and Noland Co., Roanoke, lighting fixtures supplier.





Lindsay Cadillac Company

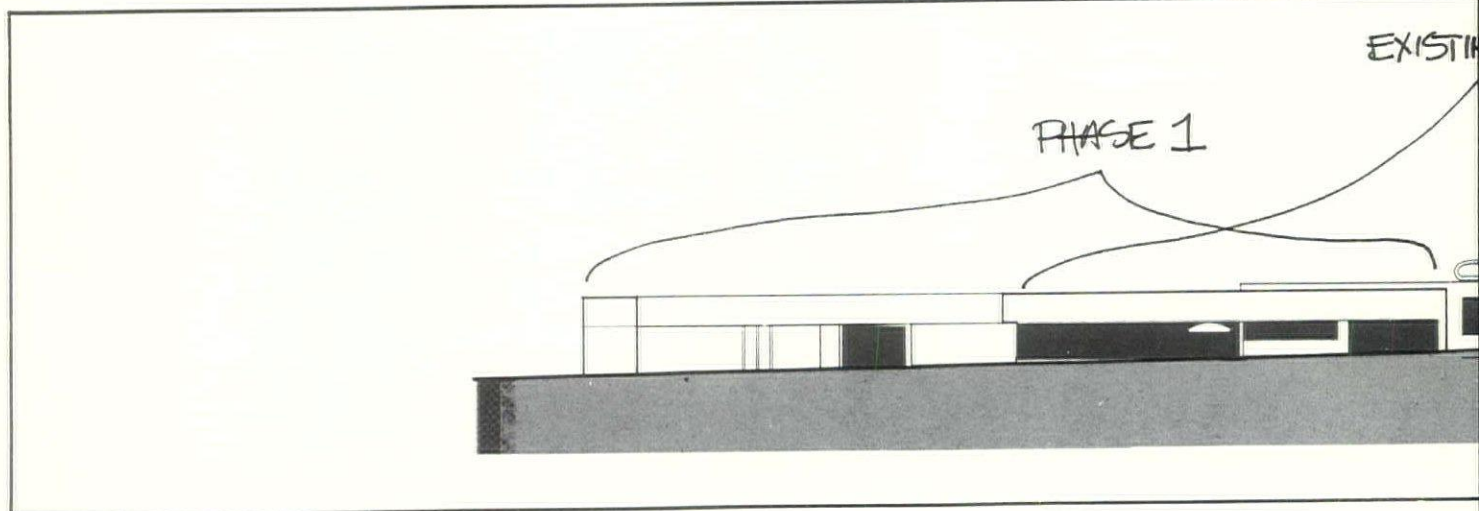
Phase 2 — Parts & Service Facility — Alexandria

Architects Group Practice — Architects/Engineers

Landscape Architect, EDAW, Inc. • Mechanical Engineer, Glassman/Le Reche Assoc., P. C. • Electrical Engineer, Glassman/Le Reche Assoc., P. C. • Structural Engineer, Uwe K. Hinz, P. E. • Lighting, Peter Barna/Lighting Design • Owner, Charles T. Lindsay, Jr. • General Contractor, Bruce Scott Construction Inc. (Now Scott-Long Construction, Inc).

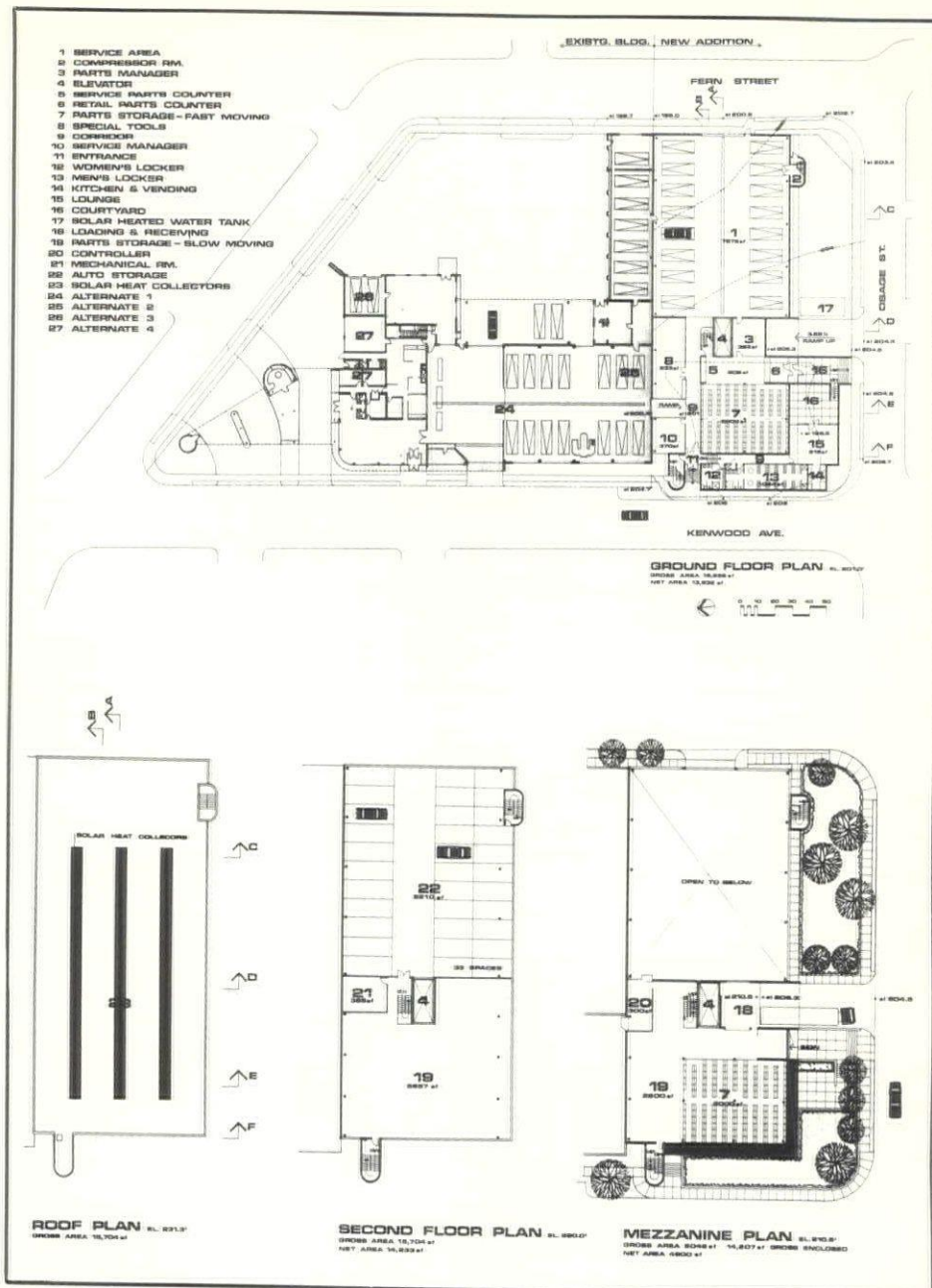
The Parts and Service Center represents the second phase of accomplishment in realizing the three-phased Master Plan developed by Architects Group Practice — Architects and Engineers — for the Lindsay Cadillac Company. In Phase I — or the Customer Courtesy and Outdoor Display Facility which was completed in 1977, the materials, forms and architectural building character were established that would serve to unify the various parts of the entire automotive complex, and to visually enhance the urban neighborhood for which the Lindsay's had felt long-standing concern.

The program for Phase II called for doubling of the automobile servicing capability, consolidation and extensive expansion of parts storage and distribution

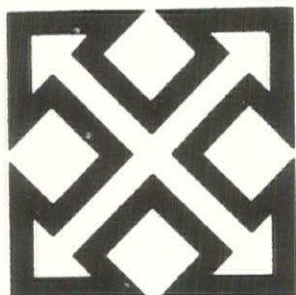


activities, and for providing new locker and lounge facilities for the use of company employees. Although the site designated on the Master Plan to receive this construction was adjacent to the existing Lindsay service area, it was substantially restricted by topography, building setbacks, height regulations and fire restrictions. By placing the employee facilities partly in-grade, it was possible (by obtaining a zoning variance) to treat the roof of this area as a landscaped extension of the park-like open space on the site, freeing allowable areas in the permissible building envelope to satisfy programmed functional needs. Although essentially contained in an underground structure, the employees lounge faces onto and is naturally lighted by a landscaped courtyard. Through use of a skylight extending the entire length, the corridor which interconnects this area becomes a pleasant and bright linear atrium.

By carefully relating the sixteen new service bays to the existing service area, it was possible to establish a centralized control station at the new mezzanine level which provides visual control over



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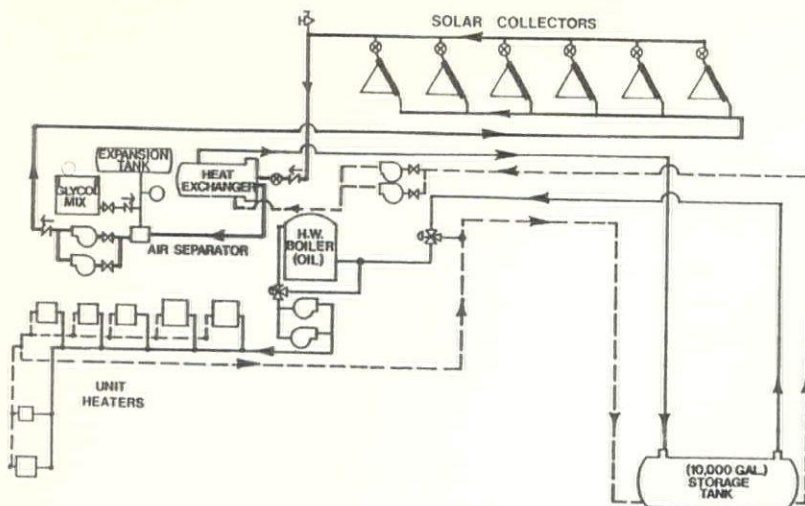
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TOTAL HEAT NEEDED PER YEAR	1,490 MILLION BTU'S
TOTAL USABLE SOLAR HEAT PER YEAR (AMOUNTS TO 47% OF TOTAL HEAT)	704 MILLION BTU'S
COST TO HEAT BLDG. W/ELEC. PER YEAR	\$ 59,000
COST TO HEAT BLDG. W/OIL PER YEAR	\$ 14,000
COST TO HEAT BLDG. W/OIL AND SOLAR PER YEAR	\$ 7,400
ANNUAL SAVINGS W/SOLAR	\$ 6,600
INVESTMENT/SAVINGS RATIO $\frac{(9,450)}{(6,600)} = 1.43$	
SYSTEM PAYOUT:	28.6 YEARS

SOLAR ENERGY UTILISATION DESIGN AND ECONOMIC ANALYSIS

the entire service operation. The storage of parts necessary to support this combined service activity as well as the new public sales area, was located in a position central to the combined sales area, yet accessible to a loading dock for ease of freight handling. The storage component for parts comprises a completely demountable and structurally independent bin system which will permit the widest range of adaptation possible to future storage needs.

Among the many innovative program responses contained in this project, two of the most notable are the freight elevator and the solar energy systems. Regarding the first of these two, surface parking of new and used cars as well as cars received for servicing requires an extensive quantity of land. In an urban area like that where the Lindsay operation is located, such land is scarce and expensive. ArGP suggested that consideration be given to construction of a second level over the entire new service area which would be serviced by an elevator that could serve double duty in handling the movement of parts to the various levels of storage. The new second level area could be utilized for a variety of automobile storage and inventory display purposes, and in so doing increase the yield of valuable land centrally located to existing operations. The acceptance of this recommendation brought about construction of the cantilevered upper floor with its distinctive band of continuous glass. Even more a visual feature of the entire project is the active solar collector system which is arranged in two southfacing rows that extend the full length of the building roof. These panels, each increment of which is 5 ft. by 12 ft. in area, collect the sun's heat for conversion into hot water which is then used to heat both the interior building spaces and the domestic hot water system. With the rapid increases current in the price of oil (the building's alternative heating energy source), the investment considerations of this solar system become constantly more attractive.

The Parts and Service Center is a response to the needs of a growing and innovative automobile

dealership in an urban setting. By rethinking the arrangement of the various functions and organizing them vertically as well as horizontally, and by then innovatively relating this arrangement to the site and existing structure in a truly urban context, and then applying the most advanced technology in energy design, a unique solution has been created.

Bruce Scott Construction, Inc. of Oakton (Now Scott-Long Construction, Inc. of Fairfax) was general contractor

Subcontractors & Suppliers

Alexandria firms were: Campbell & Ferrara Nurseries, Inc., landscaping; L. C. Smith, Inc., masonry supplier; Higham Co., Inc., caulking & painting contractors; Standard Floors, Inc., resilient tile floor; D. Compe, Inc., architectural coatings & drywall; Calvert-Jones Co., Inc., mechanical; Walter C. Davis & Son, Inc., electrical contractor; and Color My World, exterior graphics application.

Others were: John Driggs Co., Inc., Capitol Heights,

MD, excavating; Virginia Concrete Co., Inc., Springfield, concrete contractor; Maryland Masonry Contracting Corp., Rockville, MD, masonry contractor; Southern Iron Works, Inc., Springfield, structural steel; Hallmark Woodworking & Lumber Co., McLean, millwork; CMS Roofing Co., Inc., Bethesda, MD, other roofing; Davenport Insulation, Inc., Springfield, insulation; Graham, Van Leer & Elmore Co., Inc., Tyson's Corner, architectural louvers; Associated Glass Co., Inc., Fairfax, glass & skylights; and The Ceco Corp., Bladensburg, MD, hollow metal doors.

Also, Capital Products, Inc. Washington, DC, rolling doors; Fries, Beall & Sharpe Co., Springfield, hardware supplier; Stevens Tile & Marble Co., Inc., Kensington, MD, ceramic tile; Executone Intercom Sound & Pocket Page Systems, Washington, DC, intercom; Horner Elevator Co., Inc., College Park, MD, elevators; and B & R Associates, Gaithersburg, MD, automotive equipment.



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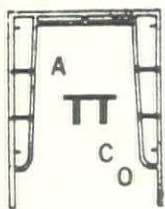
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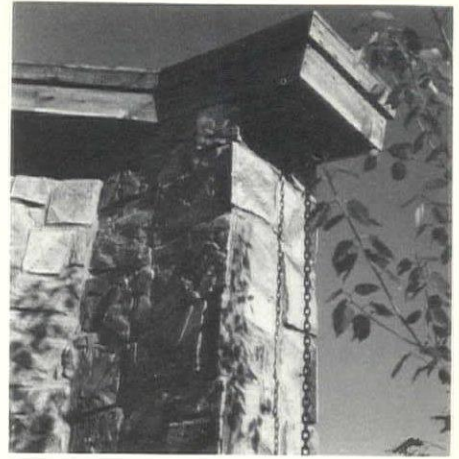
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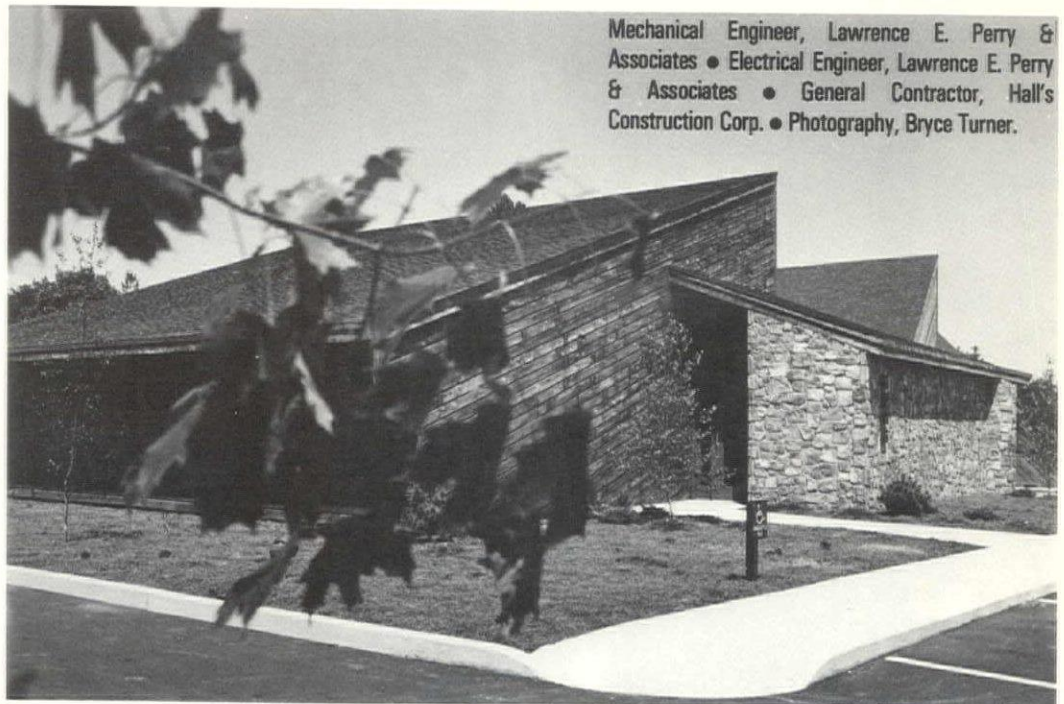
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Becker Chiropractic Clinic

Roanoke County

Byron R. Dickson, Jr. — Architect



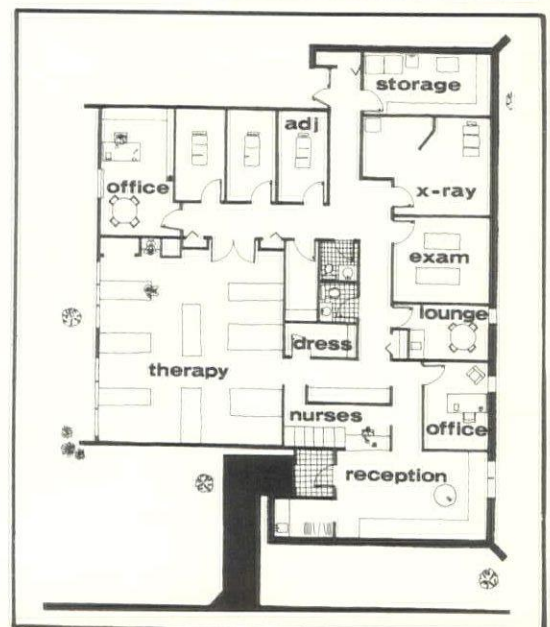
Mechanical Engineer, Lawrence E. Perry & Associates • Electrical Engineer, Lawrence E. Perry & Associates • General Contractor, Hall's Construction Corp. • Photography, Bryce Turner.

The Becker Chiropractic Clinic opened to receive patients in February of 1979. The clinic is designed to efficiently house the practice of chiropractic medicine and will primarily support therapeutic, diagnostic, preventive and remedial activities.

Located in Northwest Roanoke County, the clinic is convenient to major arterial roadways serving the entire valley. The site is at the intersection of Dwight and Peters Creek Road. Within minutes, Interstate 581 can be reached and Downtown Roanoke is approximately ten minutes away.

The site is square and provides a little over one-half acre. The terrain is flat and bounded on the front and side by roadways, the other side by a dental clinic and a residential sub-division to the rear.

Site vehicular access from the roadways is away from the intersection. There are two entrances



which allow for traffic to circulate through without turning around. Parking is along two sides of the building. An ambulance entrance is at the rear. Patients enter along a sidewalk and through the foyer. The staff uses the private entrance at the rear which is also available for emergencies.

All ground not paved or built on has been mulched. Carefully selected landscaping offers maximum design impact.

The structure is one story with attic provisions. The enclosed area totals 3,070 square feet. Of this space 60% is medical, 30% administrative and 10% circulation and support. The major medical areas are adjusting, therapy, X-ray and examination.

Design character has been governed by the scale and proportion of the surrounding residential area. Two major forms comprise the building mass. The primary form is a high shed roof which extends vertically to provide the attic space. The secondary form is a grouping of three single slope roofs which provides visual counterpoint to the high mass.

The sub-structure employs a concrete foundation and floor slab system. The superstructure is wood utilizing studs, joists and truss framing. Cedar wood plank and synthetic veneer stone provide the exterior closure. Doors and windows are of residential character and are sashed with insulating glass. The structure enjoys a high performance insulation envelope for maximum energy efficiency.

Inside finishes include vinyl covered drywall, floor carpet and painted drywall ceilings.

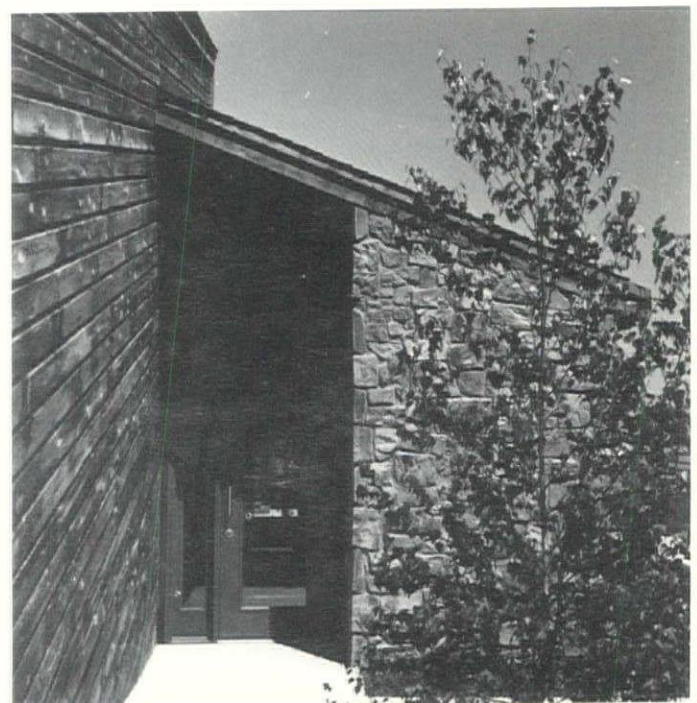
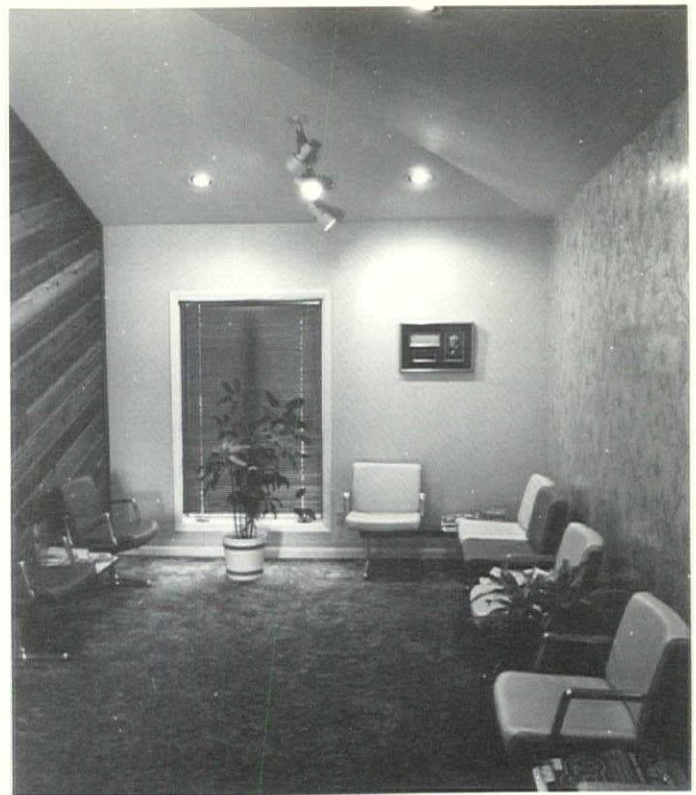
Lighting is strategically placed to be visually effective and functionally efficient. The clinic is fully heated, ventilated and air conditioned.

The project was delivered through competitive bid. Design work began in mid-'77 and ground was broken in early-'78.

Hall's Construction Corporation of Shawsville was general contractor and handled foundations, concrete work, reinforcing, carpentry, roofing and foundation insulation.

Subcontractors & Suppliers (Salem firms unless noted)

James Wilcher, excavating; Yagle Nursery, Elliston, sodding, seeding, etc.; Salem Paving Corp., Roanoke, paving contractor; M & M Masonry, masonry contractor; Lightweight Block Co., Inc., Roanoke, masonry supplier & mortar; Ten-E-C Stone Co. of Virginia, Roanoke, stonework contractor; Timber Truss Housing Systems, Inc., millwork, metal doors & frames, wood doors & windows; A & H Contractors, Inc., Roanoke, wall insulation, gypsum board contractor & resilient tile; Vinton Continuous Guttering, Vinton, sheet metal; Skyline Paint & Hardware, Inc., Roanoke, hardware supplier; Southern Tile & Carpet Co., Inc., Roanoke, ceramic tile; Contract Furnishings & Design, carpet; Hesse & Hurt, Inc., Roanoke, painting contractor & wall covering; Oscar W. Smith Mechanical Contractors, Inc., plumbing/heating/ventilating/air conditioning contractor; Noland Co., Roanoke, lighting fixtures supplier; and Jarrett Electric Co., Inc., Roanoke, electrical contractor.





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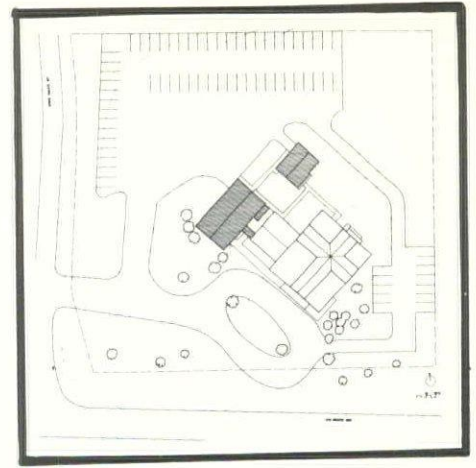
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Christian Aid Mission Office Building — Albemarle County

John B. Farmer, Jr., AIA — Architect

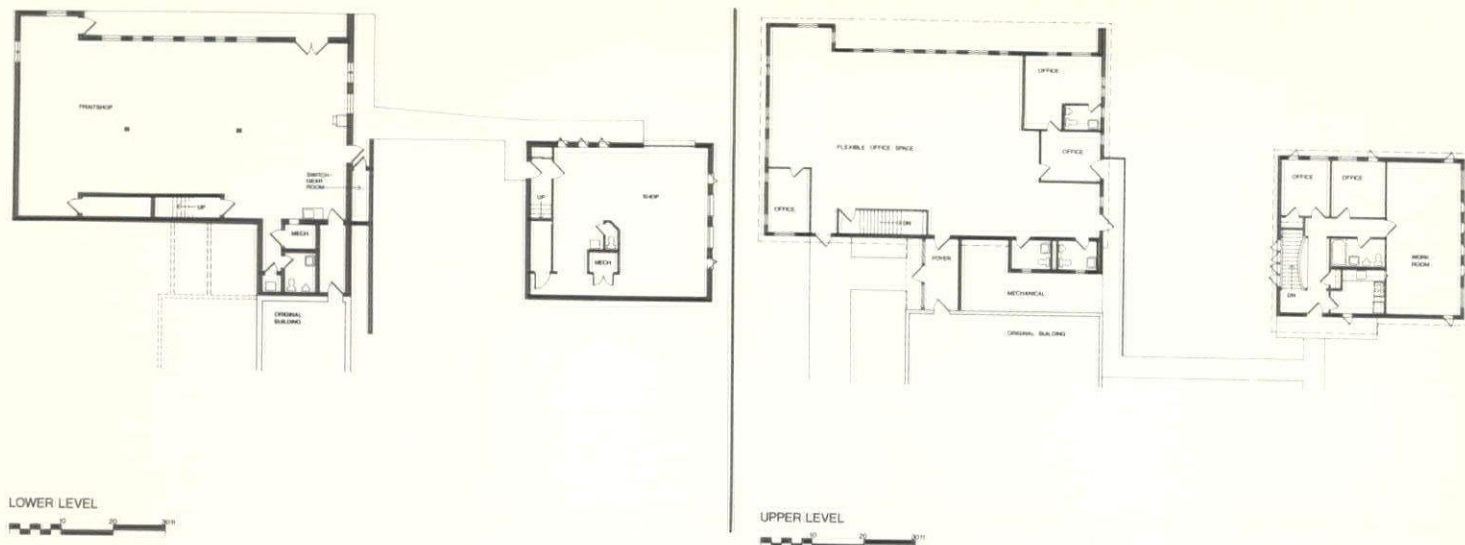
Landscape Architecture and Interior Decoration by the Owner • Mechanical Engineer, John B. Farmer, Jr., AIA • Electrical Engineer, John B. Farmer, Jr., AIA • Structural Engineer, Dunbar, Milby & Williams • General Contractor, Thacker Construction Co. • Photography, John B. Farmer, Jr., AIA and (plans) Kaminer & Thomson, Inc.

Christian Aid Mission, a world-wide agency of evangelism and missionary activity, purchased a former dinner-theatre building near Charlottesville and converted it into a center for Bible and missionary conferences in 1976. Dunbar, Milby & Williams, consulting structural engineers, and Edward van Laer, Inc., general contractor, were in charge of the renovation. That same year, the Mission started work on its first new building, the Annex, and planned for the construction of a new Office Building addition to the original structure.

The two buildings, the Annex and the Office Building, were designed at the same time. When included with the original structure, they were envisioned as forming a group of simple buildings that would become the nucleus of the Mission's headquarters and training center. The Annex, the smaller of the two, was completed in January of 1977. L. K. Loftin, III, was the designer, working under John B. Farmer, Jr., AIA. Dunbar, Milby & Williams were structural engineers for the project. Environmetrics, Inc. of Charlottesville was the general contractor.

Two years later, in January of 1979, the Office Building was completed. The two new buildings are, except in size, similar in appearance — concrete block walls, roof pitch, asphalt shingle roof covering, window openings and color. The Annex and the Office Building were designed for compatibility with the original building and the site which fronts on a scenic highway. At the same time, the two buildings were carefully studied in elevation, massing and





orientation. The placement of windows in the facades was important for interior function, present and future, and exterior appearance. The window pattern, composed of fixed and operable glass, establishes a rhythm on the basically flat facades — a rhythm that changes from side to side.

The Office Building, seemingly a separate structure, is actually an addition to the original building. The tall indented wall is the one gesture that sets up a strong relationship between the new structure and the older one behind it. The connecting entrance foyer, by contrast, is almost an understatement despite the change of materials at this, the most visible, point of connection. The indented wall dominates the view of the Mission complex as seen by eastbound traffic, but does not intrude on the landscape. It calls attention to the Mission, but does so in a quiet, simple way that is compatible with the functions of the building.

Inside, the two buildings are quite different. The Annex is specific in its layout, while the Office Building is general. The Annex is more staff oriented, the Office Building is more accessible to the public. Both were designed for the convenience of the staff and ease of circulation between the two, and between old and new at both levels. The new buildings enjoy a distant view of the Blue Ridge from the upper levels. Both are working buildings that serve the wide ranging activities of the Mission. Public assembly space for the groups activities and worship is provided in the original, older building.

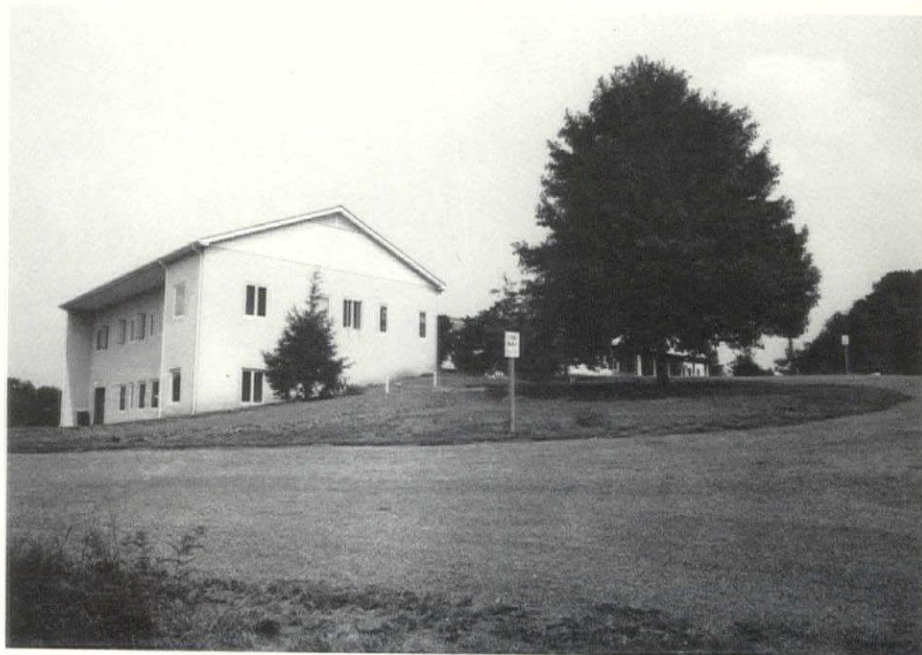
Thacker Construction Co. of Charlottesville was general contractor and handled foundations, concrete work, carpentry, caulking, gypsum board work and painting.

Subcontractors & Suppliers (Charlottesville firms unless noted)

A. G. Dillard, Jr. Paving, Inc., excavating;
Associated Steel Products, Inc., reinforcing, steel

joists, steel roof deck & miscellaneous metal; Allied Concrete Co., concrete supplier, masonry supplier & MODAC exterior wall coating supplier, Rogers Masonry, Inc., Orange, masonry contractor; National Coatings Corp., Atlantic City, NJ, manufacturer of MODAC exterior wall coating; Phillips Building Supply, Inc., millwork; E. M. Martin, Inc., waterproofing, built-up roof, other roofing & roof insulation; Virginia Insulation Corp., wall insulation; and Glass & Plastics, Inc., glass & glazing contractor.

Also Augusta Steel Corp., Verona, hardware supplier; Manson & Utley, Inc., acoustical treatment & resilient tile; Meadowbrook Hardware, paint supplier (Glidden paint); Brunk Mechanical Corp., plumbing contractor; Ray Fisher & Ron Martin, Inc., heating/ventilating/air conditioning contractor; Safe-Way Electric, Inc., electrical contractor; Automated Structures of Charlottesville, wood trusses; and Cates Building Specialties, Inc., Roanoke, urinal screens.





C. Y. Davis Family Solar Residence

Montgomery County

Gregory & Rogers

Interior Design, Carol Davis • Mechanical Engineer, Owen & Mayes • Electrical Engineer, Owen & Mayes • Structural Engineer, John Shumate • General Contractor, The Armstrong-Slate Corp. T/A Johnson-Slate Corp • Photography, Gregory & Rogers.





Energy requirements, economic constraints, site characteristics, and family needs presented a variety of design concerns to the architect.

The Davis family had a wide range of architectural programmatic requirements since they had many hobbies, enjoyed entertaining, and loved the outdoors, all in addition to everyday needs. At the same time, the architect and the family were very concerned with energy costs and providing economical arrangements for the use of all the spaces required. This family comes from a very traditional design background having lived most of their lives in tract houses. However, during the design process they kept an open mind. The architects had a very positive understanding with the owners from an architectural viewpoint as they developed spaces in relationship to one another, and found ways to incorporate energy needs and the owners' ideas in the project.

The site, partly a knoll of about thirteen acres, overlooks the Ellett Valley. The site is wooded on the north side with a good southern and eastern exposure, which lends itself very well to solar applications which the architects immediately began to incorporate in the design process.

The family is a very tight knit, and they wanted a place where they could gather in the evening after dinner and in that period when the husband comes home and dinner is being prepared. Spaces in which the owners had a definite preference for taking advantage of the view included the master bedroom, living, dining, and kitchen areas. Since this family likes to entertain, they wanted the living and dining areas to be set up in such a way as to provide for an easy flow of people and yet to have the capability of closing up these areas when they were not in use. The wife has interests in both painting and ceramics, and had visions of a loft to practice her art work. She also wanted easy access to the garage, from which she could carry her kitchen supplies, along with a laundry/work area with a convenient laundry

chute for the bedroom linens. In addition, she wanted to be able to look out from the kitchen to see visitors as they arrived. The family, including teenage girls, desired a place for their social gatherings and recreation activities.

The design solution evolved around a circulation core. The main level includes the conversation area, kitchen and master bedroom, all of which can be utilized independently of the rest of the house. This zoning was an important design consideration in that the girls would move away in the years to come and fewer of the many spaces would be utilized simultaneously. The solar panels fit very neatly over the studio area which also enabled the inclusion of good indirect north light for the art work. Private areas of the residence were situated on the secluded side of the site toward the wood line. The passive solar design of the residence is combined with the active solar systems.

Residential construction materials include cedar siding and native stone as well as exposed laminated

beams and decking. Significant mechanical systems include a matrix of thirty-three (33) solar collectors - in conjunction with heat pumps and a hot water fireplace heat exchange system - for both domestic hot water use and space heating requirements.

The Armstrong-Slate Corp., T/A Johnson-Slate Corp. of Blacksburg was general contractor and handled excavating, sodding, seeding, etc., foundations, concrete work, reinforcing, masonry work, steel erection, roof deck, miscellaneous metal, handrails, carpentry, millwork, paneling, waterproofing, caulking, roofing, roof insulation, wall insulation, foundation insulation and glazing.

Subcontractors & Suppliers

Marshall Ready Mix Co., Blacksburg, concrete supplier; Lightweight Block Co., Inc., Roanoke, masonry supplier; Riverton Corp., Riverton, mortar; Larry J. Francisco, Salem, stonework contractor/supplier; Structural Steel Co., Inc., Roanoke, steel supplier; Koppers Co., Pittsburgh, PA, structural wood; Christiansburg Cabinet, Inc., Christiansburg, cabinets; Air Control Corp., Pulaski, sheet metal; Rolscreen Co., Pella, Iowa, glass windows & window wall; Pinecrest, Inc., Minneapolis, MN, wood doors; Moore's Building Supplies, Christiansburg, hardware supplier & specialties; Service Contracting of Virginia, Inc., Radford, plaster contractor, gypsum board contractor, acoustical treatment, painting contractor, special wall finish & wall covering.

Also, DeHart Tile Co., Inc., Christiansburg, terrazzo, resilient tile, carpet & special flooring; The Sherwin Williams Co., Christiansburg & Cleveland, Ohio, paint supplier/manufacture; Jennaire, General Electric & Carrier, equipment; Noland Co. & Hajoca, Roanoke, plumbing fixture suppliers; Galax Plumbing & Heating Co., Inc., Galax, plumbing contractor; Solar Structures, Lynchburg, heating contractor; Air Control Corp., Pulaski, ventilating/air conditioning contractor; Williams Supply, Inc. & Lighting Galleries, Inc., Roanoke, lighting fixtures suppliers; Graybar Electric Co., Inc., Roanoke, electrical equipment supplier; and Ligon Electric, Blacksburg, electrical contractor.



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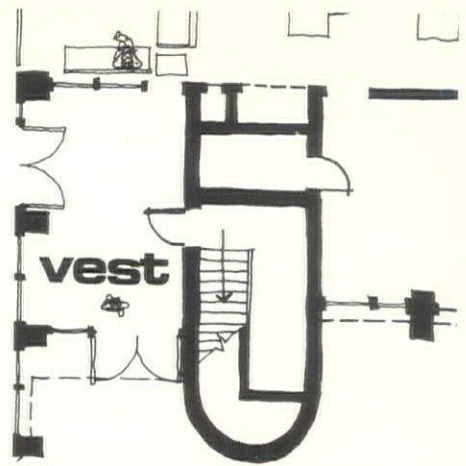
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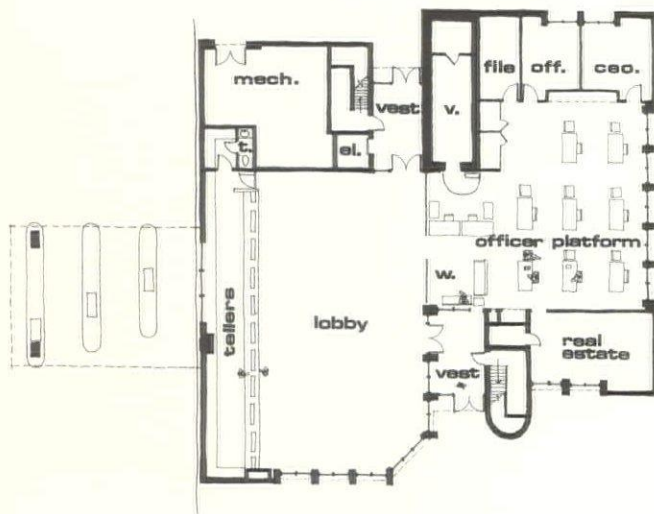
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Cumberland Bank & Trust Company

Clintwood

Byron R. Dickson, Jr. — Architect



FIRST FLOOR PLAN



Project Manager, Jerome D. Henschel, AIA • Interior Design, Norma Hyder • Mechanical Engineer, Lawrence E. Perry & Associates • Electrical Engineer, Lawrence E. Perry & Associates • General Contractor, Days Construction Co., Inc. • Photography, Byron R. Dickson, Jr., Architect.

Cumberland Bank & Trust Company serving Cumberland country and celebrating 60 years of banking this year, was originally the Bank of Haysi, founded in 1919 by relatives of R. L. Sutherland. Under the direction of Mr. Sutherland, their second office was opened at Clintwood in 1933, and later a third office later to become the main headquarters, was opened at Grundy. The changing of the name to Cumberland Bank and Trust Company occurred in 1935, and in 1971 affiliation with Dominion Bankshares Corporation, one of the oldest bank groups in Virginia. Today Cumberland Bank and Trust Company is the largest bank headquartered west of Roanoke employing in excess of 130 employees. Expansions include new offices at Oakwood, Haysi, Harmon Junction and most recently new facilities at Clintwood, now under construction.

Cumberland Bank and Trust Company is in the heart of Southwest Virginia's coal reserves, has present day assets of 147 million, and will provide increased services for all of Cumberland country including parts of Kentucky and West Virginia just 15 miles away.

The new Clintwood facility is two stories of brick and concrete block wall bearing construction. This exterior wall contains a cavity with insulation for maximum thermo comfort, and has a furred interior wallboard finish.

The Clintwood office will serve all functions of contemporary banking utilizing interior teller stations and four remote drive-up conveniences. One Drive-up after hour depository is provided with dusk to

(Continued on page 48)

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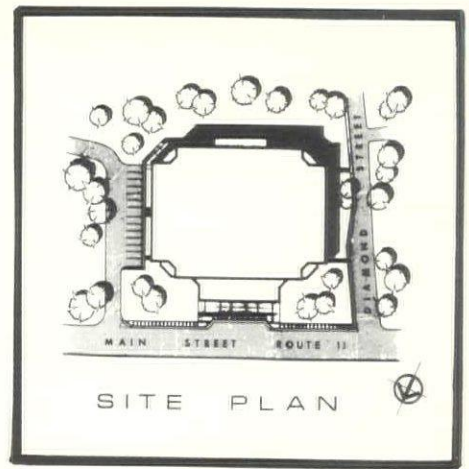
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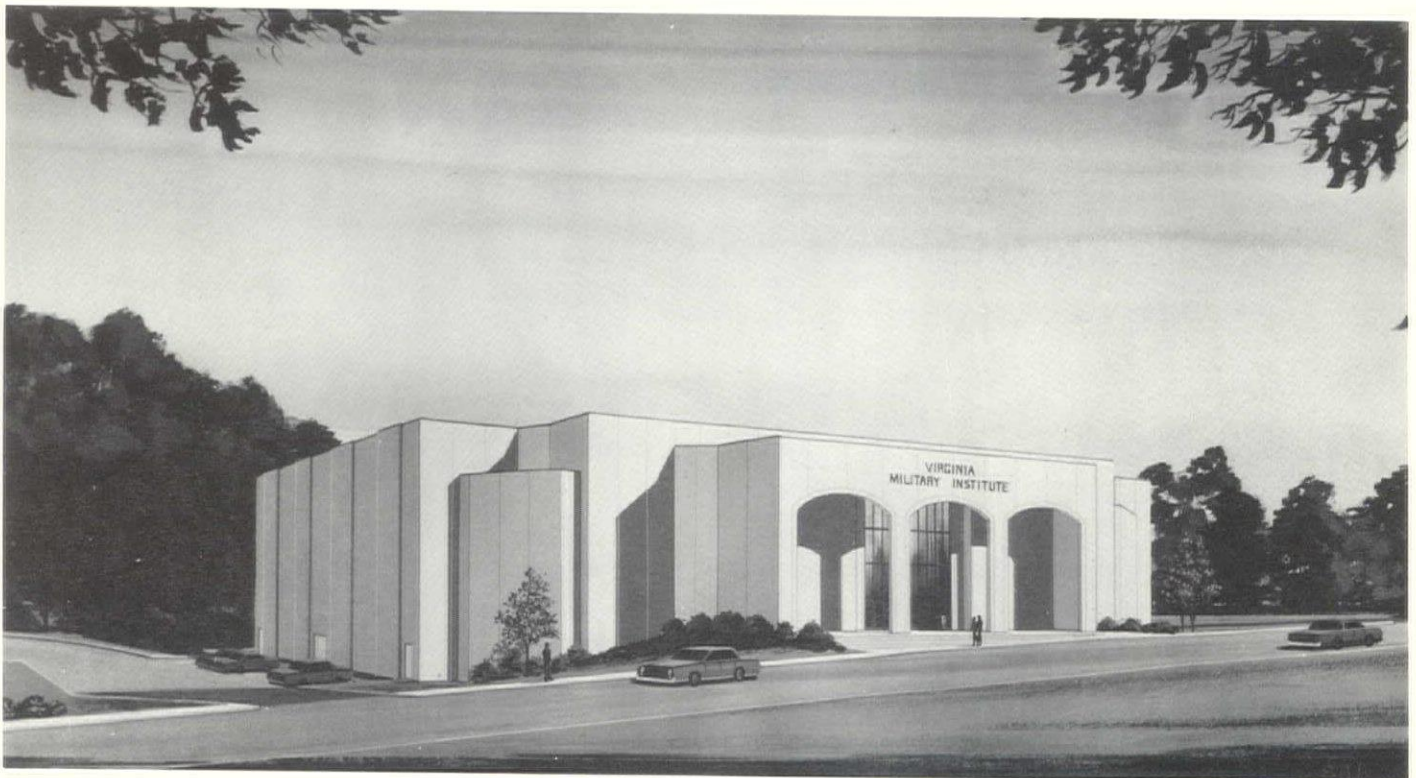
Virginia Military Institute, Lexington

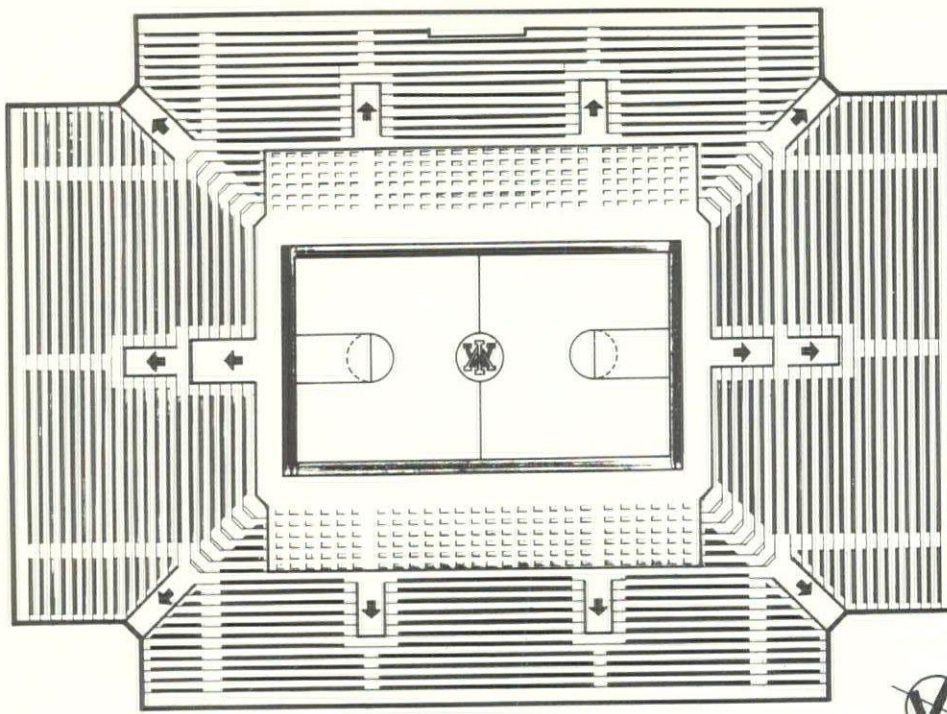
Clark, Nexsen, Owen, Barbieri & Gibson — Architects/Engineers

Mechanical Engineer, Clark, Nexsen, Owen, Barbieri & Gibson • Electrical Engineer, Clark, Nexsen, Owen, Barbieri & Gibson • Structural Engineer, St. Clair, Callaway & Frye • General Contractor, J. M. Turner & Co., Inc. • Photography, Gene Campbell.

The new multi-purpose auditorium (to be known as Cameron Hall) for the Virginia Military Institute is now under construction with a planned completion date of June 1981. It is located along U. S. Route 11 just west of the Institute's football stadium.

The building is designed primarily for basketball. It will have a fixed seating capacity of 5000 with





ARENA PLAN

potential for additional loose seating to accommodate a variety of functions. There will be a total of 80,000 square feet consisting of the arena floor, seating tiers and two perimeter levels 200 and 300, plus a part basement level 100.

The 200 level contains offices, team rooms, training and therapy, toilets, showers, coaches' room, laundry, projection rooms, storage and mechanical equipment spaces. Two ramps lead directly to the arena floor from this level.

The 300, or concourse, level contains the main

entrances, office, public toilets, ticket sales and concession areas. Ten ramps from this level lead directly to the tiered fixed seating. The part basement, or 100, level contains five raquetball courts.

The structure comprises a reinforced concrete frame with prestressed concrete tilt-up wall panels, steel roof trusses, joists and built-up roof.

The main entrance and foyer are emphasized by the use of cast stone trim, granite paving and wall

surfaces and bronzed aluminum and glass entrance partitions.

J. M. Turner & Co., Inc. of Salem was general contractor for the project.

Subcontractors & Suppliers
(Roanoke firms unless noted)

Lone Jack Limestone Co., Inc., Lynchburg, paving contractor; Valley Steel Corp., Salem, reinforcing; Cooperative Construction Co., Inc., Lynchburg, prestressed concrete; Neff Masonry, Inc., McGaheysville, masonry supplier; Architectural Concrete Products, Daleville, stonework contractor; Empire Grantie Corp., Richmond, stonework supplier; Roanoke Iron & Bridge Works, Inc., steel supplier/erection/joists/roof deck; J. B. Eurell Co., Richmond, other roof deck; Miller Manufacturing Co., Inc., Richmond, millwork, cabinets & wood doors; Quality Waterproofing, Inc., Hopewell, waterproofing; E. S. Chappell & Son, Inc., Richmond, caulking; and E. M. Martin, Inc., Charlottesville, built-up roof, roof insulation & sheet metal.

Also, Glass & Metals, Inc., Harrisonburg, glass, glazing contractor, window wall & storefront; Seybar, Inc., Martinsville, metal doors & frames; Augusta Steel Corp., Verona, hardware supplier; A. & H. Contractors, Inc., plaster contractor & acoustical treatment; Standard Tile Co., Inc., Verona, ceramic tile; Costen Floors, Inc., Richmond, resilient tile & special flooring; L. R. Brown, Sr. Paint Co., painting contractor/supplier & wall covering; Roanoke Engineering Sales Co., Inc., equipment; Westbrook Elevator, Danville, elevators; Wes-Way Sprinkler Co., Inc., Mechanicsville, sprinkler contractor; G. J. Hopkins, Inc., plumbing/heating/ventilating/air conditioning/electrical contractor; and Beaver Technical Sales, Washington, D.C., scoreboard.

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Alexandria will Pipe in the New Year In Scottish Ceremonial Tradition

• In Alexandria, people usher in the New Year with the words "Lang may your lum reek." The Scottish blessing of the home — long may your chimney smoke — is part of the traditional "Hogmanay" ceremony celebrated every year on December 31 at the Carlyle House.

Just as the city's founding fathers — among them Scottish merchant John Carlyle — perpetuated their forefathers' traditions, Alexandrians and visitors from all parts of the world gather together on the last night of December for "Hogmanay" (Old Year's Night).

The public reception will begin at 10 p.m. and will feature Atholl Brose (the traditional Hogmanay drink), Scottish meat pies, bridies, shortbread and other light refreshments. The city's official band — the Alexandria Pipes and Drums — will play strathspeys and marches including the ever popular "Scotland the Brave." A highland dancer and Scottish balladeer also will perform during the evening.

The "Hogmanay" ceremony will begin at midnight on the terrace of the Carlyle House. A kilted piper wearing the Alexandria Cameron will perform the "first footing." As he crosses the threshold with gifts for the host — food, drink and fuel for the hearth — he will call out "Lang may your lum reek."

The "Hogmanay" ceremony is derived from the Scottish legend that good fortune in the New Year is ushered in by the first "dark-haired" person to cross the threshold after midnight. The ceremonial act known as the "first footing" is performed at private homes throughout Alexandria on New Year's Eve.

Many guests who attend "Hogmanay" are of Scottish descent and wear their family tartan to the reception. During the evening, guests will have the opportunity to roam through the rooms of the Carlyle House including the formal parlor where

General Braddock met the five British governors in 1755 to discuss the financing of the French and Indian War. They proposed taxing the Colonies, a resolution which led to the infamous Stamp Act.

The Carlyle House, 121 N. Fairfax was built in 1752 by John Carlyle from the blueprints of Craigiehall in West Lothian, Scotland. He built the Georgian stone mansion for his wife Sarah Fairfax whom he married on New Year's Eve in 1747.

A traditional Colonial New Year's Eve dinner will be served at Gadsby's Tavern Restaurant, 138 N. Royal St. Eighteenth century specialties — Cornish game hens, Sally Lunn bread and English trifle — will be featured. The restaurant will provide a fixed price menu and three dinner seatings at 6 p.m., 8 p.m. and 10:30 p.m. Strolling minstrels will play 18th century music. Advanced reservations are required; call (703) 548-1288.

Gadsby's Tavern was built in 1770. Under the proprietorship of Englishman John Gadsby, it was

recognized as the center of political and social life when Alexandria was a flourishing seaport in the 18th century. Colonial patriots, including Thomas Jefferson, George Washington and John Adams, were frequent patrons of the hostelry. The Tavern and attached City Hotel were recently restored as a Colonial restaurant and museum furnished with tavern artifacts and antiques.

Tickets for the Hogmanay reception are \$15 a couple or \$8.50 per person and must be purchased in advance before December 20. Checks should be made out to the Alexandria Tourist Council and sent — with a self-addressed envelope — to Ramsay House Visitors Center, 221 King St., Alexandria, VA 22314. Hogmanay is an annual benefit sponsored by the Alexandria Tourist Council. Proceeds are donated to the City of Alexandria Pipes and Drums.

For more information on the Scottish New Year's Eve celebration, other special events, lodging, and historic landmarks, call (703) 549-0205.

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All proceeds go to Woodlawn Plantation, which was George Washington's wedding gift to his wife's granddaughter, Nelly Custis.

This popular exhibit, which last year drew some 15,000 visitors, will be open to the public March 8 through March 30. The exhibit will be judged by a panel of needlework experts.

For additional information and entry blanks, call or write Woodlawn Plantation, P. O. Box 37, Mount Vernon, Virginia 22121, (703) 557-7881. Woodlawn Plantation is a house museum owned and maintained by the National Trust for Historic Preservation.

Washington Star Publisher Speaker at NVBA Dinner

• George W. Hoyt, publisher of *The Washington Star*, was the guest speaker at the Northern Virginia Builders Association (NVBA) November dinner meeting.

A resident of McLean, George Hoyt was named publisher of *The Washington Star* in June 1978. Prior to joining that paper, he was involved on the business side of newspapers in both Oregon and Chicago, Illinois. Hoyt was instrumental in the creation of the first computerized typesetting system in the Pacific Northwest.

The November meeting was held Thursday,

November 8, at the Pentagon City Quality Inn. "Part of an ongoing series of meetings, the November event is an indication of our members' concern with the community," said Herbert L. Aman, III, NVBA president. "The members of our association are interested in any issue which affects the region's economy and fosters better quality construction in the building industry."

George Hoyt spoke to the NVBA members regarding the changes that have taken place recently in *The Washington Star*. Don Saccardi of Riggs National Bank also talked about rising interest rates and disappearing funds. In addition to the speeches and the usual association business, various special awards were distributed to NVBA members with outstanding service and leadership.

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Cloverdale Elementary School (From page 17)

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Also, Seybar, Inc., Martinsville, metal doors & frames, operable wall & hardware supplier; Curtis Corp., New London, WI, wood doors; Hope's Windows, Div. of Roblin Industries, Inc., Jamestown, NY, windows; Harman Ceiling & Partition Co., plaster contractor, gypsum board contractor, acoustical treatment & resilient tile; Discount Carpet Center, carpet; Harris Hardwood Co., Inc., BondWood flooring; L. R. Brown Sr., Painting Co., painting contractor; Oscar W. Smith Mechanical Contractors, Inc., Salem, plumbing/heating/ventilating/air conditioning contractor; and Milton Electric Service Co., electrical contractor.

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Ellett Hall (From page 19)

In summary, through this refurbishment, the building is much more livable and has had its life expectancy extended by many years.

Kjellstrom and Lee, Inc. of Richmond was general contractor for the project.

Subcontractors & Suppliers
(Richmond firms unless noted)

Southern Brick Contractors, Inc., masonry contractor/supplier & mortar; S & W Steel Co., Inc., steel supplier; Miller Manufacturing Co., Inc., millwork, wood doors & windows; E. S. Chappell & Son, Inc., caulking; N. W. Martin & Bros., Inc., roofing; Davenport Insulation, Inc., wall insulation; American Door and Glass, Inc., glazing contractor; J. S. Archer Co., Inc., metal doors & frames; S D G, Inc., hardware supplier; and F. Richard Wilton, Jr., Inc., plaster contractor & gypsum board contractor.

Also, Oliva and Lazzari, Inc., ceramic tile; C. B. Smith Co., acoustical treatment & resilient tile; Hodgman's, Inc., carpet; W. E. Wilborn Co., Inc., painting contractor; Sign Graphics, Inc., signage; Pleasants Hardware and Modern School Equipment, Inc., specialties; Havnaer Supply Co., Inc., equipment; Custom Kitchens, Inc.; Roanoke Engineering Sales Co., Inc., toilet partitions; Wes-Way Sprinkler Co., Inc., Mechanicsville, sprinkler contractor; Thermo-Trol Corp., louvers; J. W. Bastian Co., Inc., plumbing/heating/ventilating contractor; Central Electrical Service Corp., air conditioning contractor; and Graybar Electric Co., Inc., lighting fixtures supplier.

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Bassett-Walker Knitting

Co. Office (From page 23)

Doors are red oak, and frames and glazed partitions are bronze-colored aluminum and steel.

Engineers-Constructors, Inc. of Greensboro, North Carolina was general contractor for the project.

Subcontractors & Suppliers

From Martinsville were: Williams Excavating Co., excavating; Covington & Jefferson Asphalt Paving, Inc., paving contractor; Wilson Quarries, concrete supplier; and Helms Roofing Corp., built-up roof & sheet metal.

Other were: Montague-Betts Co., Inc., reinforcing; Phoenix Concrete Products, Inc., Roanoke, precast concrete; Masonry Contractors, Inc., Salem, masonry contractor; General Shale Products Corp., Glasgow, masonry supplier; Flamingo, Riverton, mortar; Structural Steel Co., Inc., Roanoke, steel supplier & miscellaneous metal; C. P. Buckner Steel Erection Service, Inc., Chapel Hill, NC, steel erection; Vulcraft, Florence, SC, steel joists; Inryco, Inc., Milwaukee, WI, steel roof deck; Livers Bronze Co., Kansas City, MO, handrails; South Roanoke Lumber Co., millwork & wood doors; and Cieco Manufacturing, Roanoke, cabinets.

Also, Seager Waterproofing, Inc., Greensboro, NC, waterproofing & caulking; Pritchard Paint & Glass Co., Salisbury, NC, glazing contractor & window wall; Tom Jones Hardware Co., Inc., Richmond, metal doors & frames & hardware supplier; Varner Ceiling Co., Greensboro, NC, gypsum board contractor, acoustical treatment & resilient tile; Hite Tile Co., Collinsville, ceramic tile; Liskey Architectural Mfg. Co., Baltimore, MD, access flooring; L. R. Brown, Sr. Painting Co., Roanoke, painting contractor; PPG Industries, Inc., Pittsburgh, PA, paint manufacturer; Dominion Elevator Co., Inc., Salem, elevators; Associated Sprinkler Co., Inc., Greensboro, NC, sprinkler contractor; Warner Supply Corp., Roanoke, plumbing fixture supplier; Lowe & Nelson Plumbing & Heating Co., Roanoke, plumbing/heating/ventilating/ air conditioning contractor; Maddux Supply Co., Greensboro, NC, lighting fixtures supplier; & electrical equipment supplier; Bryant Electric Co., Inc., High Point, NC, electrical contractor; and Super Sky, Thiensville, WI, manufacturer and erector of skylights.

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General Contractor for the Bassett-Walker Knitting Co. Office in this Issue

Columbia Retreat

(From page 21)

ENVIRONMENTAL CONSIDERATIONS The 85-acre site consists of an open field on lower rolling hills and a heavy forest on rugged upper mountain. The lodge was set into the forest to provide natural shade and screening from highway noise. The existing pond, fed by natural springs, is being enlarged for fishing, boating and strolling. Frontage along the highway is being screened off by huge earth mounds and heavy planting. The amphitheater is being cut into a natural semicircular hillside. Trails are being staked out to focus on natural features such as cliffs, rock outcroppings, a stream valley and natural springs. All utility lines are underground.

HANDICAPPED CONSIDERATIONS Access by the physically handicapped was a major design consideration. Handicapped persons can park next to the lodge and enter along a gentle concrete walk which connects the lodge to future cabins. The lodge is set on one level with no stairs or ramps. Provisions for personal comfort as well as functional needs were included. The stone fireplace is already a favorite! This barrier-free atmosphere was difficult to achieve on such rugged terrain.

ENERGY CONSIDERATIONS Orientation to the sun, mountainside, and deciduous trees rendered the optimum sun and shade factors for summer and winter. The placement of solid, well-insulated walls and deeply recessed clerestory windows were determined by sun angles. In summer the entire lodge is cooled by induced drafts with no mechanical air conditioning. The Venturi principle of drawing cool air through low front windows and exhausting out through high rear clerestory windows is employed. In winter the lodge is heated by passive solar heat, a huge stone fireplace and a zoned furnace system.

MATERIALS Natural materials and earth tones were used throughout to blend with the natural setting: foundation - field stone; siding - cedar shingles; roofing - cedar shakes; interior frame - exposed laminated wood with wood deck in multipurpose room; wood framing with redwood paneled ceiling for dormitories and meeting room.



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H. N. Ritter, Inc. of Berryville was general contractor and handled carpentry.

Subcontractors & Suppliers

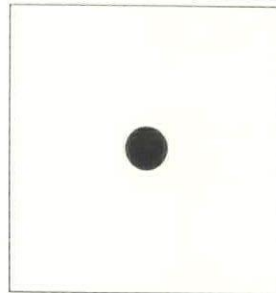
From Winchester were: Shirley Construction Co., excavating; Crider & Shockey, Inc., concrete contractor/supplier; Chas. Zuckerman & Son, Inc., reinforcing; Virginia Supreme, masonry supplier & mortar; Lowe's of Winchester, Inc., structural wood; Wine Sheet Metal, Inc., built-up roof; Davenport Insulation Co., Inc., wall insulation; and The Floor Shop, ceramic tile, resilient tile & carpet.

Others were: Maryland Masonry, Hagerstown, MD, foundations, masonry contractor & stonework contractor; Middleburg Millwork, Middleburg, millwork & wood doors; N & P Painting, caulking &

painting contractor; Clarke County Roofers & Guttering, Inc., Boyce, other roofing; Rocco Building Supply, Harrisonburg, roof insulation; PPG Industries, Inc., Hagerstown, MD, glass & glazing contractor; Hagerstown Paint & Glass, Hagerstown MD, metal doors & frames; and James A. Cassidy Co., Inc., Beltsville, MD, windows.

Also, W. T. Weaver & Sons, Inc., Washington, DC, finish hardware supplier; Columbia Building Products, Maryland, rough hardware supplier; Tom Bridges, Vienna, gypsum board contractor; Duron Paint, Baltimore, MD, paint supplier/manufacture; S. W. Brooks Plumbing & Heating, Front Royal, plumbing contractor; Fox Heating, Front Royal, heating/ventilating/air conditioning contractor; and Crawford Electronics, Berryville, electrical contractor.

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(From page 39)

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The floor system is composed of 3-inch concrete on metal deck, steel joist 24 inches on center, and carpet or vinyl asbestos tile. The roof is composed of joist girders, purlins and standing seam metal roof system, parapet wall liner, metal flashings and interior gutters with overflow protection.

The facility is conditioned by an electric split system having nine zones and economizer cycle.

The site provides space for 33 cars — including handicapped spaces, planting, landscaping and low bank signs.

Days Construction Co., Inc. of Salem was general contractor and handled foundations, carpentry, waterproofing, caulking, wall insulation & foundation insulation.

Subcontractors & Suppliers
(Salem firms unless noted)

H & H Contractors, Clintwood, excavating; Valley Steel Corp., reinforcing; Thompson Masonry Contractor, masonry contractor; Bolling Steel Co., Vinton, steel supplier; John W. Hancock, Jr., Inc., steel joists; LaPrad Roofing & Sheet Metal Co., roofing; Central Glass Co. of Virginia, Inc., Bristol, glass & glazing contractor; Skyline Paint & Hardware, Inc., Roanoke, metal doors & frames, wood doors, hardware supplier & specialties; Joe Rainero Tile Co., Inc., Bristol, terrazzo; Dover Elevator Co., Memphis, TN, elevators; Brinkley Plumbing, Heating & Electrical Contractor, Inc., Wytheville, plumbing/heating/ventilating/air conditioning contractor; Newcomb Electric Co., Inc., Roanoke, electrical equipment supplier & electrical contractor; and Fabricated Metals Industries, Inc., Roanoke, stairs.

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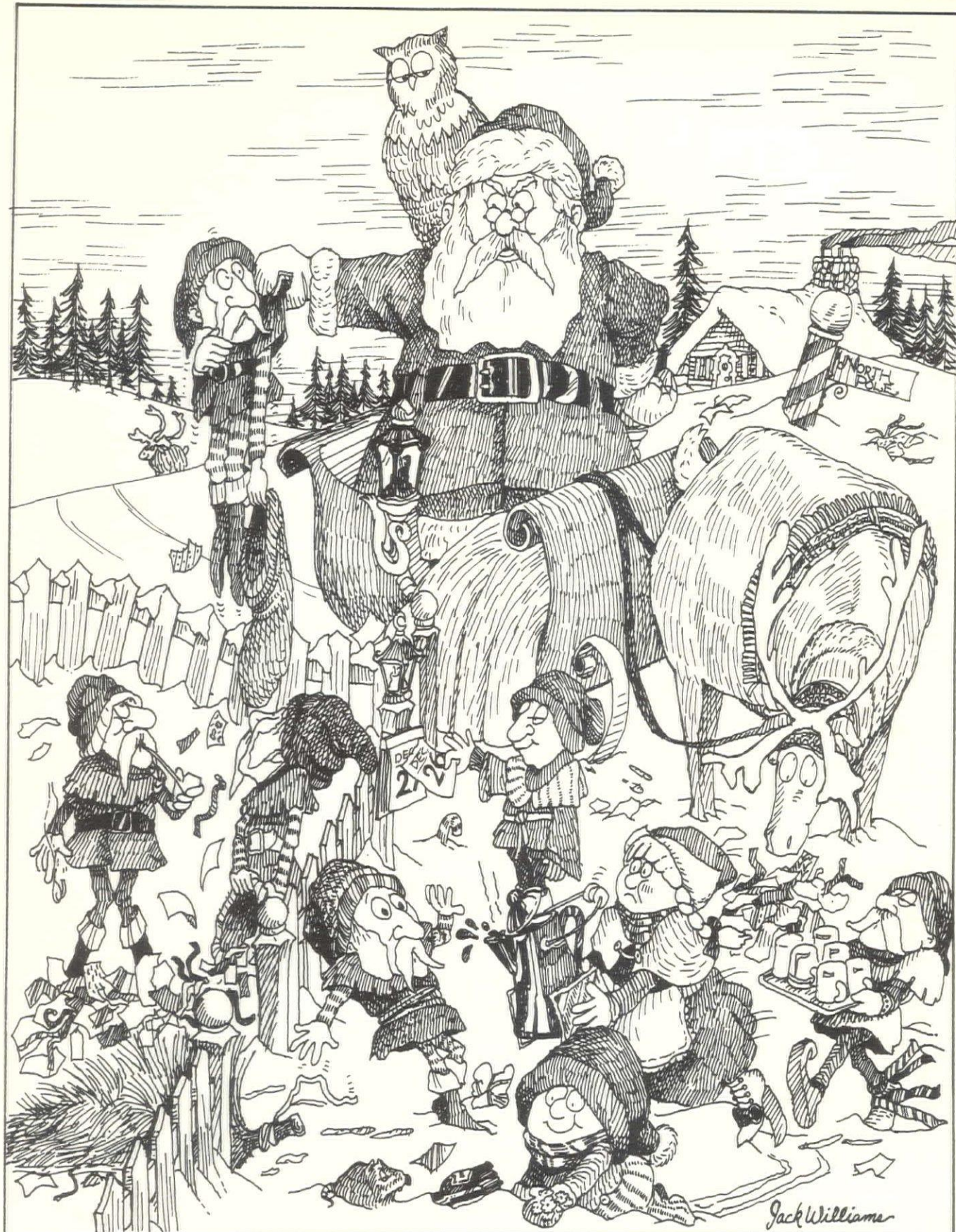
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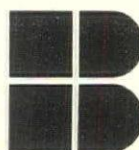
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