

VIRGINIA RECORD

MAY-JUNE 1982





**BURGLAR ALARMS
FIRE ALARMS**

Midlothian Electronics

PROFESSIONALS SERVING CENTRAL VIRGINIA

Let Our Reputation Be Your Security

- Central Station Monitoring •Approved by Insurance Cos.
- Automatic Daily Alarm Testing

Dial (804) 794-4642 — Midlothian, Va.

Troxell Drywall Company

St. Reg. #14206

Phone 804/295-5737

2035 Wingfield Road, Charlottesville, Va.

WERNER THOMPSON

Construction & Development Ltd.

4713 Tulip Road

Virginia Beach, Virginia 23455

(804) 460-1937-460-1938-460-1939

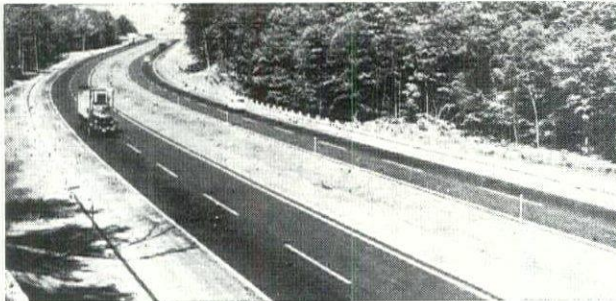
If No Answer — (804) 460-4028



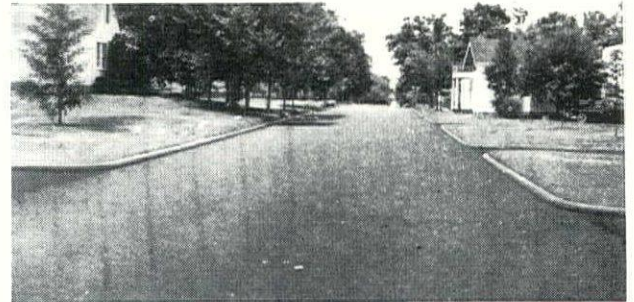
Design Construct — General Contractors — Construction Management

ASPHALT CONCRETE PAVEMENTS

for a life time of use



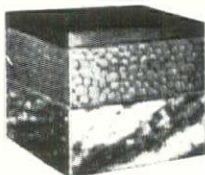
Super-Highways



Residential Streets

See that your SUPER-HIGHWAYS are PAVED with modern HOT PLANT-MIXED ASPHALT CONCRETE. TAX DOLLARS saved can be used to PAVE your RESIDENTIAL STREET with this modern—Smooth—Safe—Durable—Economical—material.

For additional information and engineering assistance call:



**Choose this Modern
Engineered Asphalt
BASE AND SURFACE**
scientifically
constructed on a well
compacted subgrade.



VIRGINIA ASPHALT ASSOCIATION, INC.

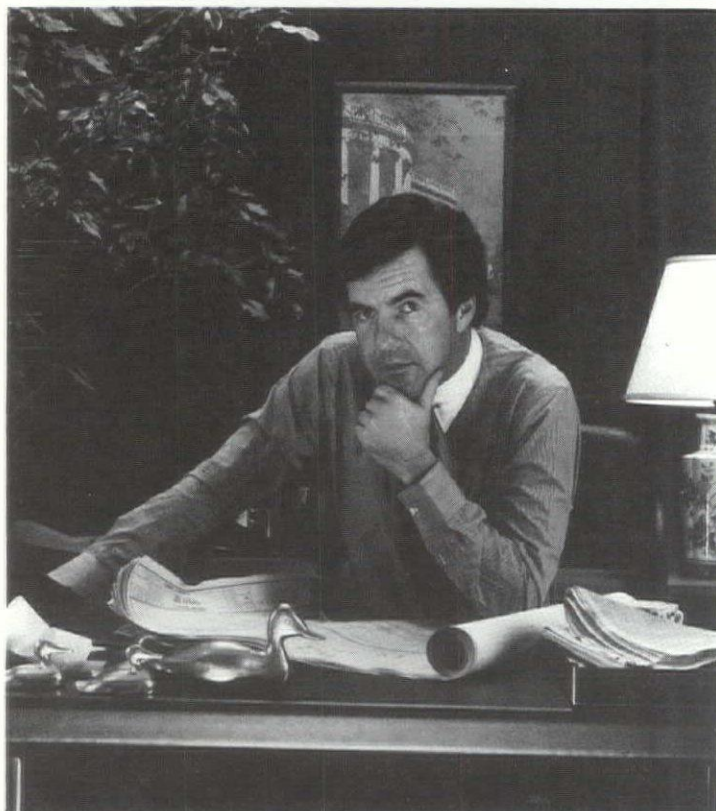
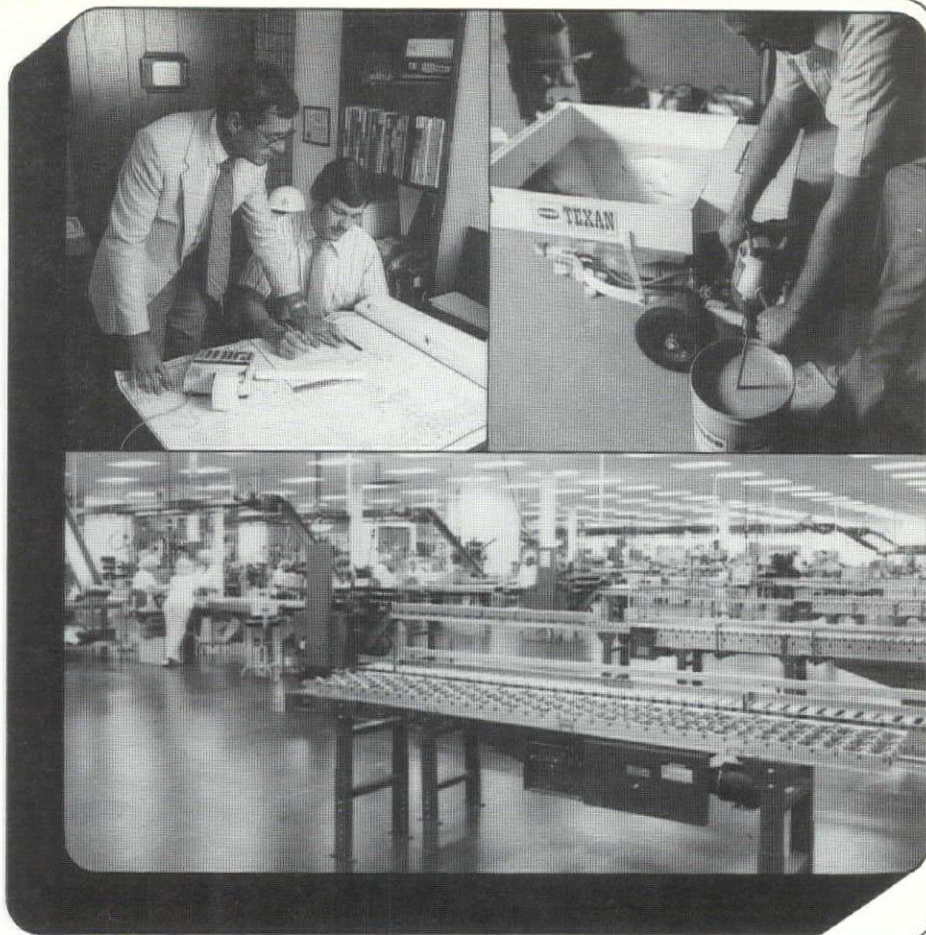
1500 Forest Avenue
Randolph Building-Suite 212-Box K236
Richmond, Virginia 23288
Phone 288-3169

Good Chemistry Plus Engineering Experience Equals Great Technical Surfaces

Hygienic, seamless, lasting, wall and floor surfaces can only be obtained when good chemistry from a quality manufacturer is combined with engineering experience of a reputable installer. POMPEI produces results that are readily apparent in the pride of craftsmanship, while the specifier is guaranteed the highest quality installation.

POMPEI 
TILE CO., INC.

501 Howmet Drive
Hampton, VA 23661
(804) 826-5626
Norfolk — (804) 625-7238
Licensed Contractor Installer



That's why Project Insurance from Schinnerer is the obvious solution to one of the most important problems you face: Adequate professional liability protection for the design team on your next project.

Features including coverage for the entire design team for the duration of the project and beyond, at limits up to \$75 million—all through CNA—mean our Project Insurance doesn't leave the important matter of insurance protection to chance.

Twenty-five years of experience go into our Project Insurance Policy.

Have your broker call us today.

Coverage for this program is provided by Continental Casualty Company, one of the CNA insurance companies.

Victor O

Schinnerer
& Company, Inc.

The first is still the best

Program Administrators &
Underwriting Managers

5028 Wisconsin Avenue, N.W.
Washington, D.C. 20016
(202) 686-2850
303 East Wacker Drive
Three Illinois Center
Chicago, IL 60601
(312) 565-2424

40 Wall Street
New York, NY 10005
(212) 344-1000
595 Market Street
San Francisco, CA 94105
(415) 495-3444

***The future of your next
construction project could depend
on what you do today.***

ROBERT R. MARQUIS, INC.

General Contractor

ST. REG. #4936

Commercial – Industrial

Institutional



2229-31 County Street

Phone (804) 393-1061

PORTSMOUTH, VIRGINIA

DOMINION STEEL ERECTORS INC.

Steel Fabricators

Miscellaneous

Structural Steel Erectors

St. Reg. #35-1458-621

Va. Contractors #20642

Phone 703-491-2868

Metro-Line

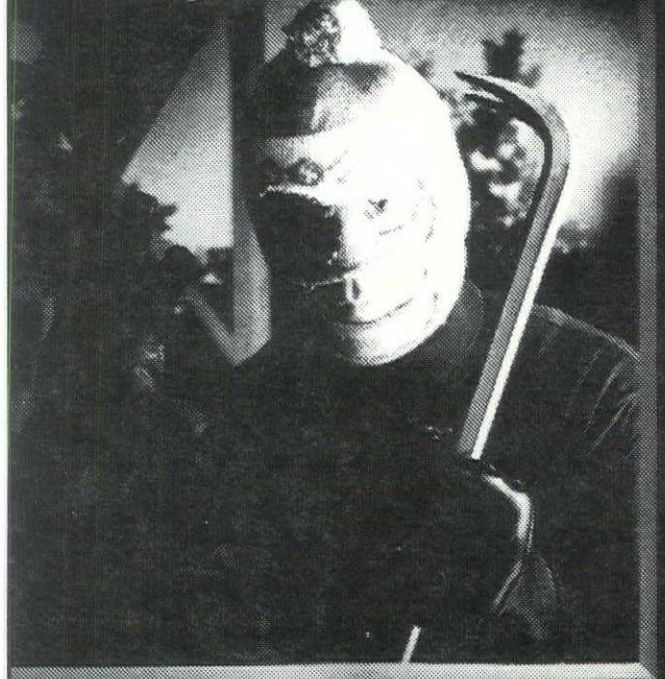
202-643-1003

202-643-1004

14517 Telegraph Road
Woodbridge, Virginia 22192

LEXAN[®] SHEET

bars burglars.



Burglars usually enter through broken windows. Windows glazed with General Electric Company's LEXAN sheet are guaranteed against breakage.* LEXAN sheet, the world's toughest glazing material is UL listed burglary-resisting. It is widely used in windows where safety and/or security are important.

In schools, banks, retail stores, office buildings, factories and many other structures across the country, LEXAN sheet protects people and property beautifully. And provides better insulation than glass.

To learn more about the amazing glazing that bars burglars, call us today.

CPSC
16 CFR 1201.1, II
LEXAN[®] sheet
complies with both
Category I and Category II
requirements. Defined in
the Safety Standard on
Architectural Glazing
Materials issued by the
U.S. Consumer Product
Safety Commission

UNDERWRITERS
LABORATORIES



LISTED BURGLARY
RESISTING
LEXAN[®] GLAZING

® Registered trademark of General Electric Company

Binswanger Glass Company

A National Gypsum Company

VIRGINIA LOCATIONS:

Richmond, Norfolk, Newport News,
Virginia Beach, Chesapeake

VIRGINIA RECORD

JOURNAL OF THE VIRGINIA SOCIETY OF THE AMERICAN INSTITUTE OF ARCHITECTS

AN INDEPENDENT PUBLICATION
FOUNDED 1878
TO TELL THE VIRGINIA STORY

"VIRGINIA RECORD (ISSN-0042-6768) is published bi-monthly for \$10 per year by Virginia Publishers Wing, Inc., 301 East Franklin Street, Richmond, Virginia 23219. Second-class postage paid at Richmond, Virginia. POSTMASTER: Send address changes to VIRGINIA RECORD, P.O. Box 2-Y, Richmond, VA 23205."

Vol. 104—No. 3
May-June 1982

JOE H. YOUNG
Executive Editor

ANITA R. BRENNAN
Associate Editor

Published with
The Cooperation of the
Virginia Society
American Institute of Architects

DONALD L. STRANGE-BOSTON, AIA
President

G. REVELL MICHAEL, AIA
President-Elect

PAUL H. BARKLEY, AIA
Vice President

RICHARD L. FORD, JR., AIA
Secretary

WILLIAM C. MONROE, AIA
Treasurer

FREDERICK E. BAUKHAGES, IV, AIA
Chairman
Publications Committee

Subscriptions
1 Year \$10—2 Years \$18
3 Years \$25

Per Copy \$2.00
Plus Tax and Postage

Phones: 804-644-6717 or 804-644-2722

Address All Mail to:

VIRGINIA RECORD
P.O. Drawer 2-Y, Richmond, Va. 23205

to tell the Virginia Story

IN THIS ISSUE

- 8 AIA News
- 66 Travelers' Guide
- 67 For the Record
- 70 Index to Advertisers

FEATURE ARTICLES

- 7 The American Dream . . . Is It Lost?—By Roland Specter
- 17 Relevant Reflections—By Ralph Snell, AIA
- 19 Single Family Housing Retrofit for a Barrier Free Environment

BUILDING TYPES

RESIDENTIAL FACILITIES

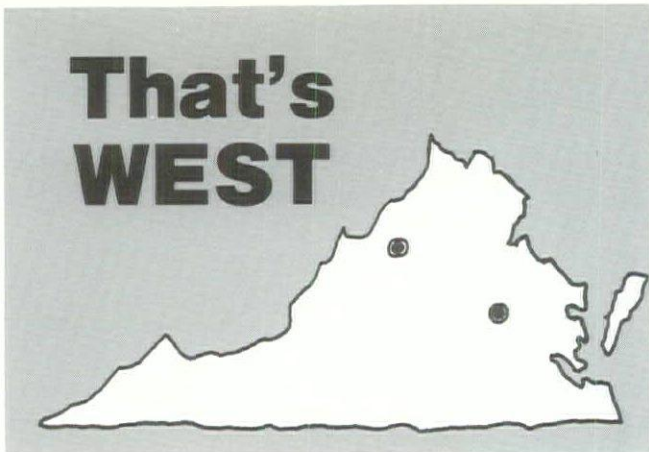
- 20 PRIVATE RESIDENCE
Interplan
- 23 RESIDENCE FOR DR. AND MRS. PAUL SCHELLHAMMER
The Design Collaborative
- 25 GYPSY HILL HOUSE
Environmental Design Group, Inc.
- 26 PRIVATE RESIDENCE
M. Jack Rinehart, Jr., AIA
- 29 JARVIS' HEARTHSTONE
Don A. Swofford, AIA
- 31 MALLARD POND TOWNHOUSES
Richard L. Grimstead, AIA
- 32 PATTERSON RESIDENCE
Byron R. Dickson, Architect
- 33 BERDEEN RESIDENCE
Byron R. Dickson, Architect
- 36 M. C. ASHE RESIDENCE
Walsh-Ashe-Dills Assoc., Inc.
- 37 RESIDENCE FOR MR. AND MRS. MICHAEL I. ASHE
Walsh-Ashe-Dills Assoc., Inc.
- 39 FUQUA RESIDENCE
Abbott Associates
- 40 SCHWARTZBERG RESIDENCE
Environmental Design Group, Inc.
- 42 ADDITION TO JANUARY HILL
William D. Prillaman, AIA
- 43 QUEEN ANNE'S COVE HARBOR HOUSES, PHASE I
G. Warren Vaughan, AIA
- 45 PRIVATE RESIDENCE
Browne, Eichman, Dalglish, P.C.
- 46 RESIDENCE AT BELLWOOD
Daniels-Harrelle-Neuman Associates, Ltd.
- 47 POWERS RESIDENCE
Abbott Associates
- 48 MCGUFFEY HILL HOUSING
Smith, Armstrong Landow Architects, Inc.
- 50 RUDEE INLET CONDOMINIUMS
The Design Collaborative
- 51 SALASKY-SEDEL DUPLEX
The Design Collaborative
- 53 MOSBY HEIGHTS
Environmental Design Group, Inc.
- 54 TENANT HOUSE, POINTS OF VIEW FARM
James F. Tucker, AIA
- 55 RESIDENCE FOR MR. AND MRS. HENRY HARRELL
Marcellus Wright Cox and Ladd
- 57 MERVIS-GLASSER DUPLEX
Richard L. Grimstead, AIA
- 61 LAWRENCE RESIDENCE
G. Warren Vaughan, AIA
- 64 PRIVATE RESIDENCE
Interplan

COVER

Memories of winter past—this Private Residence in Goochland County is presented by Interplan on page 20 of this issue. (Cover photo by Jacob Joffe)

MAY-JUNE 1982

That's WEST



Located to Serve You Better

West Sand and Gravel Co. has two branches to fill your construction needs. Whether your need be crushed stone, sand or gravel, West supplies the best! Call us today at the location most convenient to your operation:



West Sand and Gravel Company, Inc.

P. O. Box 6008 Richmond, Virginia 23222

BRANCHES:

FORT HARRISON PLANT (804) 795-2018
LYNNWOOD FARM PLANT (703) 289-2020

R. C. Hawkins Construction Company, Inc.

St. Reg. #10675

Excavating — Road Building



COMMERCIAL — INDUSTRIAL

— Phones —

703/594-2437 — 703-591-7371

Route 2, Box 135-C, Catlett, Va. 22019

Virginia Sprinkler Company, Inc.

Complete & Approved
**AUTOMATIC SPRINKLER
SYSTEMS**

Emergency Calls Accepted
Serving Virginia
Maryland & Washington, D.C.

Call 798-8385

P.O. Box 986
ASHLAND, VIRGINIA 23005

also
SPRINGFIELD, VA.
Phone 703-569-7010

Bill Costello Landscaping & Tree Care, Inc.

Member of
ISA
&
National Arborist Ass'n

St. Reg. #20628

Phone 703-327-6959

Aldie, Virginia 22001

Woodbridge Glass Company

*Glass & Glazing
Contractors*

COMMERCIAL—INDUSTRIAL

Phone 703-494-5181

14312 Jefferson Davis Highway
WOODBIDGE, VIRGINIA

The American Dream . . . Is It Lost?

A Housing Update by HBAV President Roland Spector

Within the media there has been constant talk of the vanishing of at least one part of the American Dream—homeownership. It doesn't take a crystal ball to discern that this country, the housing industry included, has entered a difficult economic period. Everywhere, from big business down to the individual, the economic crunch is being felt in some form or another.

Housing, being a part of the consumer market as well as largely dependent on the mortgage lending industry, has taken a major blow from this economic crunch. Many young American families have been forced to put off homebuying, opting instead for other basic necessities or less expensive amenities. Others, particularly singles, have returned home to live or "doubled-up." The elderly have been put in much the same picture as singles, and many Americans who were once upwardly mobile have encountered a road block.

The National Association of Home Builders recently reported that at mid-year 1981 only 11.2 percent of the nation's households, under traditional qualifying criteria, had incomes sufficient to buy a new median priced \$70,000 home at the then prevailing interest rate of 15 percent. Twice as many were able to afford a new home as recently as 1979, and from 1963 to 1975, the rate was never lower than 30 percent, but usually closer to 40 percent.

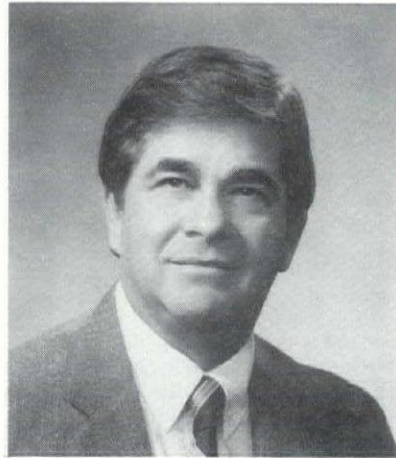
In Virginia, according to a recent report of the Virginia Real Estate Research Center at Virginia Commonwealth University, only two markets investigated had homes averaging less than \$50,000. In the last decade the average cost of a house almost tripled and estimates are the average new home in 1984, less than two years away, will cost as much as \$100,000. Not hard to believe as prices already average more than \$90,000 in some areas of the state.

Inflation and high interest rates are seen by the housing industry as the major culprits. The cost of building a home has risen with the cost of money, land, building materials and labor. Housing is linked to so many other industries that inflation in these other areas invariably seeps into the housing sector.

Meanwhile, recent changes in financing have caused a virtual revolution in that industry which has also had a tremendous impact on home building. Mortgage interest rates in 1981

averaged more than 15 percent, with construction loans usually two to three percentage points higher, virtually paralyzing the industry from both the building and buying sides.

In the past, passbook savings accounts provided for low interest mortgage loans. In effect, savers subsidized new home buyers and borrowers. It was a market that housed and enriched millions of Americans for decades, but it was also based on a financial structure that helped to drive the thrift industry close to bankruptcy. The majority of outstanding mortgage loans that thrifts are holding pay returns of less than 9 percent, while the cost of new money has



ROLAND SPECTER
1982 HBAV President

been as much as 20 percent to 21 percent. As a result, savings institutions had to follow the smart money into short-term financial markets.

Enactment of the Depository Institutions Deregulation Monetary Control Act compounded the problem by putting S & Ls in competition with commercial banks. S & Ls lost the $\frac{1}{4}$ point higher interest rate they were allowed to pay on passbook savings. Now, savers can make higher yield investments and lending institutions are pushing variable rate mortgages where home buyers pay according to movement in the cost of funds. In the meantime, the majority of America's new home buyers have been squeezed out of the market, only the affluent can afford to buy, and builders are suffering high interest rates on unsold housing inventory.



In spite of all this, HBAV does not see the picture as gloomy...difficult perhaps, but not gloomy. Changing times always require some efforts of adjustment, not only in attitude but also in actuality, and change can be difficult for some.

Many experts feel the industry will have to change and will never again be as it was in the past; that those who grew up expecting a college education leading to a successful career with a home in the suburbs and a two car garage will have to adjust their attitudes and expectations.

The Chinese symbol for danger also encompasses the symbol for opportunity, challenge and growth. With this attitude in mind, these are indeed exciting times, and having made the necessary adjustments, I am convinced this industry can survive and thrive.

We are in the midst of the seventh housing cycle since the end of World War II and this country is still the best housed nation in the world. Sixty-eight percent of our population are homeowners. Homeownership is in fact deeply rooted in the American psyche. From the time of the first colonist, the home has stood as an emblem of personal freedom and enterprise.

It was an ideal that pushed America westward across the frontier. It was the same ideal that guided American society throughout the recovery period following World War II. Men like William Levitt, builder of Levittowns, and thousands of other individual entrepreneurs built vast subdivisions of affordable homes, and bankers and financiers hammered out a mortgage finance system giving more Americans the chance to own a home than ever before. That commitment to the free enterprise system, as well as the desire for homeownership continues in this country today. The market is there—there will always be a need and desire for shelter. The current challenge facing this industry is to find ways to provide for this need and desire. It may mean adjustments, but the industry will survive the current crisis. Just as smart lending institutions will adjust and survive, smart builders will adjust and survive, and smart home shoppers will be able to find maybe not their "dream house," but certainly adequate shelter, perhaps even better-built shelter.

The challenge is actually twofold—finding the money that housing needs and building "affordable" homes. In many ways the cure is basically educational.

With the latest in technology and innovations in home design, builders are learning how to

(Continued on page 62)

Roland Spector, 1982 president of the 4,000 member Home Builders Association of Virginia, is a builder/realtor in the Petersburg area. He has been in the building business 28 years, and has been active in his local, state and national home builder associations 23 years.

VIRGINIA SOCIETY AIA NEWS

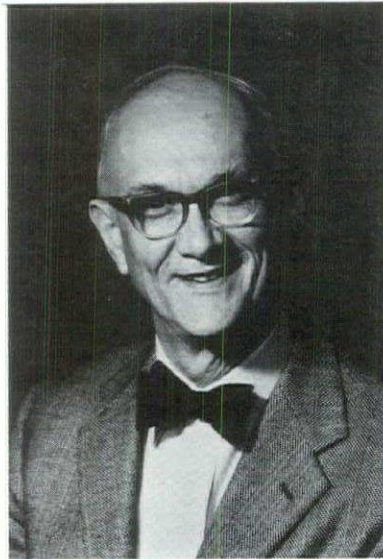
Richmond Architect Honored

Richmond architect Charles E. Wilkerson has been advanced to the College of Fellows of the American Institute of Architects. He will be invested in the 60 year old College on June 6 at the National AIA Convention in Honolulu.

Fellowship is a lifetime honor bestowed for notable contributions to the profession of architecture. Wilkerson is the first Virginia architect so honored in three years, and joins an elite group of 21 other Virginia architects holding the distinction. There are over 1,200 licensed architects in Virginia.

A native of Essex County, Wilkerson graduated from VPI in 1943 with a BS in Architectural Engineering. Following wartime service in the Orient with the Army Corps of Engineers and brief employment in Atlanta, Wilkerson came to Richmond in June 1946. In 1949 he joined the firm of Walford and Wright, forerunner of the present firm of Wright, Jones, and Wilkerson, as a draftsman. He became a partner in the firm in 1955.

Since joining the AIA in 1955, Wilkerson has an extensive record of service to the profession. Most notable have been his contributions to architectural education. He has served on the board of the Virginia Foundation for Architectural Education since 1964, including three years as its President and twelve years as its secretary-treasurer. He is considered by many to be the prime moving force behind the foundation.



CHARLES E. WILKERSON

Wilkerson was honored by his Virginia colleagues last fall with the Noland Award, the highest honor bestowed by the Virginia Society of the American Institute of Architects.

Wilkerson is married to the former Sallie Ray Bowers. They have three children.

Mary Wingfield Scott Honored by American Institute of Architects

Mary Wingfield Scott, who has spent the past half century working to preserve Richmond's architectural heritage, has been elected an Honorary Member by the American Institute of Architects.

Miss Scott was most recently honored for deeding Linden Row to the Historic Richmond Foundation. She smiled from her wheelchair last May while her niece, Mary Wingfield Scott IV, unveiled a plaque on the mid-19th-century row houses across from the Richmond Public Library on East Franklin Street. Miss Scott had saved them from demolition by buying them in the early 1950s and maintaining them as rental apartments and commercial space.

But her interest in preservation and architectural history began long before the preservation movement had achieved its current prestige, according to her nominators, who called her an "inspiration and role model for others who are dedicated to the continued maintenance of architecturally worthy structures and neighborhoods."

In 1928, she began the work that led to her first book, "Houses of Old Richmond." In 1935, she organized the William Byrd Branch of the Association for the Preservation of Virginia Antiquities. In 1950, her second book, "Old Richmond Neighborhoods," was published by the Valentine Museum.

Acorn Construction Company Ltd. General Contractors

COMMERCIAL
INDUSTRIAL



INSTITUTIONAL
PUBLIC UTILITIES

St. Reg. #9521

Telephone (703) 992-3560
P. O. Box 12141, Roanoke, Va. 24023

C & P AIR CONDITIONING COMPANY, INC.

Mechanical Contractors

AIR CONDITIONING — HEATING — VENTILATING

Phone 804-625-5874

2406 Colley Avenue
NORFOLK, VIRGINIA

Miss Scott photographed more than 1,000 antebellum houses for her two books. Her photography collection and notes were donated to the Valentine Museum.

She was made an honorary member of the Virginia Society, AIA, in 1951. In 1977, she donated the 1844 Barret House at Fifth and Cary Streets to the Virginia Foundation for Architectural Education. It serves as the Virginia Society, AIA headquarters.

Mary Wingfield Scott still feels today as she did in 1928 that "the preservation of our architectural heritage—despite great progress and public awareness—is still an uphill battle," one of her nominators wrote.

PERSONNEL AND OFFICE CHANGES

Moseley-Hening Associates Announces New VP

Moseley-Hening Associates, Inc., a Richmond architecture, planning, and interior design firm, has announced that Mr. Craig G. Covey, AICP, has joined the firm as Vice President. Mr. Covey will assume planning, marketing, and public relations responsibilities for MHA.

Mr. Covey is a graduate in Planning from the University of Tennessee at Knoxville and in Architecture from Virginia Tech. He holds also a Bachelors degree in Business Administration and has continued his education in real estate development at Harvard University.

A native of Bristol, Mr. Covey began his professional career in Virginia as Director of Planning and later as Assistant to the County Administrator for James City County. While in Williamsburg, Mr. Covey took a leading role in the location, planning and design of the James City County Government Center at Kingsmill and in the planning liaison with Anheuser Busch during the establishment of Kingsmill, Bush Gardens, and the Busch Corporate Center. More recently, while with another architectural firm, he was project architect on the design team for

She did not start out to save her native city. Educated at Miss Jennie Ellet's School here, St. Timothy's in Maryland, Bryn Mawr, Barnard, the University of Chicago and the Sorbonne, she holds a Ph.D. in art history.

"I was really interested in French art and architecture," she once told an interviewer. "I just got involved in this Richmond business. You try to do the right thing at the right time."

Most of the other eight new honorary AIA members will receive their memberships at the National Convention in Honolulu in June. However, Miss Scott was honored at a reception at the Valentine Museum in Richmond on April 22. Robert Lawrence, FAIA, President of the Institute made the presentation.



CRAIG G. COVEY

the 32-acre master development plan for over a quarter-million square feet of executive offices in Henrico County.

Mr. Covey and his wife, Rebecca, a graduate of the College of William and Mary, reside in the Richmond Fan District.

Baughan Construction Co., Inc. General Contractors

Dial 1-703-743-5141
LURAY, VIRGINIA

Southern Waterproofing & Concrete Co., Inc.

1704 Arlington Road
RICHMOND, VA.

804-355-7876

THE Thoro SYSTEM

Protects the Earth's Masonry

THOROSEAL

to fill and seal the surface

THOROSHEEN

for a beautiful finish

WATERPLUG

to stop the leaks

- SAND BLASTING
- BRICK POINTING
- RESTORATION

RESIDENTIAL—COMMERCIAL

SINCE 1947

Firm Changes Name And Relocates

Evans and Hudson architects incorporated has announced that its firm name now will include Nicholas E. Vlattas, AIA, who is Secretary/Treasurer of the corporation. The newly named firm—Evans Hudson Vlattas architects incorporated—has relocated its offices to Roseland Manor House, 10 Strawberry Banks Lane, Hampton, VA 23663. Phone 804/722-1964.

Ceramic Tile of Florida, Inc.

Grandwood Gym Floors — Terrazzo & Ceramic Tile

Phone (804) 340-5421

101 Haycox Drive, Virginia Beach, Va. 23452

The Northern Neck State Bank

WARSAW, VIRGINIA

Phone 333-4066

Member — FDIC & FRS

Penn Line Service, Inc.

Va. St. Reg. #3189

Public Utilities & Electrical

Specialists in Seeding & Mulching & Guard Rails

Phone (412) 887-9110

Corner of Scottsdale & State

SCOTTDALE, PENNSYLVANIA



PHONE 497-9392

104 NORTH WITCH DUCK ROAD
VIRGINIA BEACH, VIRGINIA 23462

**F. W. Emerson Sr.
Masonry Contractor**

Va. St. Reg. #15450

Phone (804) 595-0797

**Route 17, Box 1156
Newport News, VA 23602**

**Richard A. Oliva
&
Sons, Inc.**

**MARBLE • TERRAZZO • TILE
CONTRACTORS**



Charlottesville, Va./Phone 293-3352

Joseph Heflin & Sons Inc.

Plumbing/ Heating

"SERVING NORTHERN VIRGINIA SINCE 1931"

Repairs & Remodeling

**Call (703) 281-5220
223 Tapawingo Road
S.E. Vienna, Va. 22180**

Leroy Miller Tile Company

Phone (804) 482-3198

934 Blackwater Rd., Chesapeake, Va. 23322

FIBERGLASS ENGINEERING CO. OF MANASSAS

*Reinforced Plastic Fabrications
Planters—Structural Shapes—Tanks*

10115 Residency Rd. • Manassas, Va. 22110 • Phone 703-361-1200

L. J. HOY, INC.

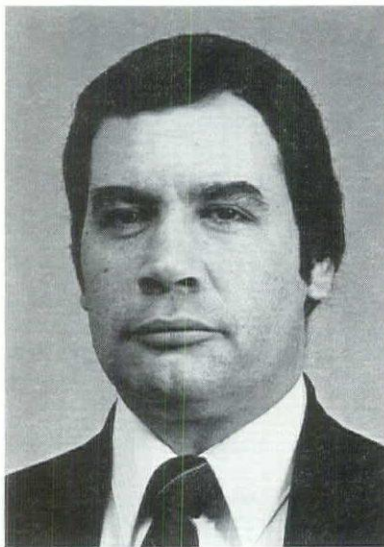
Contractor and Builder—St. Reg. #6108

RESIDENTIAL—COMMERCIAL

Phone 622-8432, 3112 Beachmont, Norfolk, Va. 23504



VED P. BANSAL



ROBERT A. PADILLO

VVKR Announces Promotions

VVKR Incorporated, Alexandria, an architecture, engineering, planning firm, has announced the promotion of Ved P. Bansal to Managing Vice President of Mechanical and Electrical Engineering. Robert A. Padillo and Ronald E. Cashion were named Vice Presidents of the firm.

Bansal, a registered professional engineer, will manage the electrical and mechanical engineering departments. Bansal designed one of the first heat recovery systems, using a heat recovery wheel. He was directly involved in the analysis and development of mechanical design criteria for "Hospitals in the 80s," sponsored by the U.S. Department of Energy and the AIA Research Corporation. He has also been involved in solar energy studies with the U.S. Department of Housing and Urban Development.

Robert A. Padillo, appointed Vice President, is also Director of Energy Services. Padillo has developed and implemented comprehensive energy programs for the states of South Carolina, Virginia and Montana. He is co-author of *The Technical Assistance Audit*, an energy conservation course for architects and engineers taught nationwide. He has been responsible for developing a computerized energy analysis program for multi-facility owners. Under Padillo's direction, the Energy Services Department recently completed a \$3 million retrofit for the Columbia Gas and Transmission Company Headquarters, without disruption to the 1100 employees.

Ronald Cashion was promoted from Associate to Vice President, Director of Planning. As senior land planner, Cashion directs land use and physical planning projects, including development feasibility studies, facility master planning, zoning studies, and comprehensive land planning projects. He is a member of the American Institute of Certified Planners and has served as Vice President of the Northeast Alexandria Citizen's Association.

VVKR also announced that Alain deVergie, Donald Finlayson, Pindi Sodhi and Stanley Taylor were named Associates of the firm.

VVKR Incorporated is a full service architecture, engineering, planning firm with offices in Alexandria, Roanoke and Norfolk, Virginia and Baltimore, Maryland.



RONALD E. CASHION

COMPETITIONS AND AWARDS

New Church Building Wins National Award

Blacksburg, Virginia's St. Mary's Roman Catholic Church, formerly at Progress and Wilson Streets, has marked another historic occasion for pride—for its pastor, Father Tom Miller; its membership in general; and Building Chairman Robert F. Kelly and his committee in particular.

The church's brand-new, sweepingly contemporary edifice, dedicated last October 25th at 702 Harding Avenue, has been named "the most unique" use of a pre-engineered construction system in a national competition during 1981.

Capturing the honors were architects Joseph Boggs and Anthony DiCamillo of Fairfax, Virginia's Dewberry & Davis, who created the design, and H.P. Sinderman, Construction & Construction Management of Radford, who brought it into being.

The Gold Award Presentation to the architectural and construction principals was made at the Marriott Hotel in Fort Lauderdale, Fla. by Inryco, Inc. of Melrose Park, Ill. during its National Dealers' Convention in February.

The architect's design, described by Mr. Kelly as "exciting and different," features unusually long, 80-ft. spans and 60-degree, high slopes, which translate into a "spaciously open foyer progressing into a large sanctuary with shadowless indirect lighting."

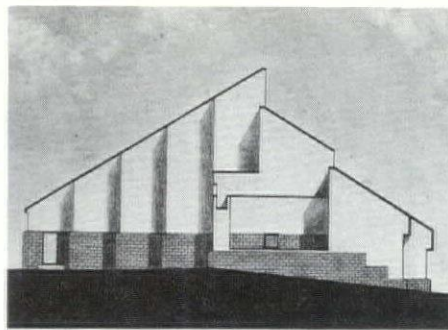
This architectural creativity was engendered via a composite structure: the coupling of a custom-design pre-engineered steel frame from Inryco Building Systems of Cullman, Ala. in conjunction with the Hambro® Composite Concrete Floor System provided by Mid-Atlantic Hambro, Inc. of Baltimore, Washington, and New York City. As construction manager Paul Sinderman explained, "The Hambro® composite structural floor system acted as a tension member, neutralizing outward moments of thrust resulting from the rigid-frame Inryco pre-engineered steel system, thus transferring loads to the lower level columns."

Exterior limestone facing, which characterized the old church, was passed over for the new design in the choice of ultra-contemporary cream-color stucco texture panels of the Dryvit System above eight-to-nine feet of plum-color split custom masonry units. The sanctuary seating of natural oak, distinctively arranged, extends on three sides of the altar.

Stained glass windows, too costly to install at this time and unfeasible to utilize from the old building, were omitted to be considered as a likely future project.

The five-acre new church site, formerly a residence and apple orchard derived from land of an early Blacksburg Catholic family, was purchased in 1967 when St. Mary's membership of 60 to 80 families realized the need to prepare for continuing growth. Since its inception in 1938, the church has now expanded into its third building.

The new edifice, costing close to \$700,000, more comfortably accommodates its present membership of 380 families, many of whom are associated with Virginia Polytechnic Institute, a Virginia land grant school dating back to an act that originated with Lincoln's administration. The level below the sanctuary has been designated for future expansion as a Fellowship & Education area.



ST. MARY'S CATHOLIC CHURCH, Blacksburg, Va. (Artist's rendering)

ARCHITECT: Dewberry & Davis, Fairfax

BUILDER: H. P. Sinderman, Construction & Construction Mgmt., Radford

VVKR Incorporated Receives Subcontractors' Award

VVKR Incorporated of Alexandria, has been named the 1981 Outstanding Engineer by the D.C. Metropolitan Subcontractors Association (MSA).

Mr. Robert B. Purdy, president of MSA, presented Mr. Carl C. Redinger, General Partner of the firm, with the prestigious "Subby" Award plaque during its 16th annual banquet, held February 20 at the Indian Spring Country Club of Silver Spring, Md., which was attended by over 500 people. Seven other Washington metropolitan area persons or construction industry companies also were honored at the banquet for their individual and collective leadership contributions to the construction and building industry.

VVKR Incorporated was selected for the 1981 Pierre L'Enfant Award by the 325 corporate members of the local chapter. The company was specifically cited for their professional and skilled ability in project engineering and their highly cooperative attitude and their fair consideration of subcontractors and suppliers.

VVKR Incorporated, an architectural, engineering, and planning firm, was formed in 1967 with the merger of Vosbeck Vosbeck and Associates, an architectural firm founded in Alexandria in 1962, with Kendrick & Redinger, an Arlington, consulting engineer firm founded in 1953. Originally called Vosbeck, Vosbeck, Kendrick and Redinger, the firm later became the VVKR Partnership, and in 1979 formed a professional corporation, VVKR Incorporated.

The seven other MSA "Subby" Award recipients include: Omni Construction, Inc. of Rockville, Md.—The W. D. Connelly Founder's Award as the Outstanding General Contractor of 1981; The Lenkin Company of Bethesda, Md.—The Morris Cafritz Award as the Outstanding Owner-Builder of 1981; Skidmore, Owings & Merrill of Washington, D.C.—The Benjamin J. Latrobe Award as Outstanding Architects of 1981; The Honorable Lawrence J. Hogan, Prince Georges County Executive—The R. L. Jackson First President's Award as the Outstanding Public Official of 1981; Vincent Dean with the George Hyman Company of Bethesda, Md.—The Paul Good Award for Supervision as the Outstanding Job

Superintendent of 1981; Kathleen A. Bailey of John A. Scheibel, Inc. of Camp Springs, Md.—The "Subby" Award as the Outstanding Woman in Construction in 1981; Richard B. Ris of Johnson Controls, Inc. of Alexandria—The John H. Hampshire Award as Outstanding Member Subcontractor of 1981.

The immediate past president of MSA, Richard B. Ris, also received the President's Award for outstanding performance and service as President in 1981.

Four Finalists Vie in Fairfax Center Design Competition

Four prominent architectural and design firms are finalists in the Fairfax Center Design Competition. Participating in the second and final stage are The Cambridge Seven, Arthur Erickson Architects, Hartman-Cox Architects, and Cesar Pelli in a joint venture with LBC&W.

According to W. Kent Cooper of the Cooper Lecky Partnership, Fairfax County's professional advisor, the design competition attracted over 300 inquiries. Eighty-six submissions were received prior to the 25 January 1982 stage one deadline. The entrants represented some of the largest firms from all parts of the country.

The field was narrowed to 12 qualified applicants from which the four finalists were chosen. The second and final stage began 22 March 1982 with submissions due 14 June 1982. The winner will be announced 26 July 1982.

A Design Review Board, which will serve as a jury, has been appointed by the Fairfax County Board of Supervisors to evaluate each of the submissions, which will be presented without reference to authorship. The review board will prepare a formal report regarding the relative merits of each submission. The selection of any submission for awarding of a contract shall be at the discretion of the Board of Supervisors.

The Design Review Board consists of five members: three architects, an engineer from the field of energy conservation, and a professional in local government administration. This Board consists of: Chloethiel Woodward Smith, F.A.I.A., Principal of the firm of Chloethiel Woodward Smith and Associated Architects, Washington, D.C.; Jacqueline Robertson, F.A.I.A., A.I.C.P., Dean of the School of Architecture, University of Virginia, and partner in the firm of Eisenman/Robertson Architects, New York; Barry Wasserman, F.A.I.A., State Architect of California; Fred Dubin, P.E., Principal in the firm of Dubin-Bloom Associates; and Wayne E. Anderson, who serves on Governor Charles Robb's Cabinet as Secretary of Administration and Finance.

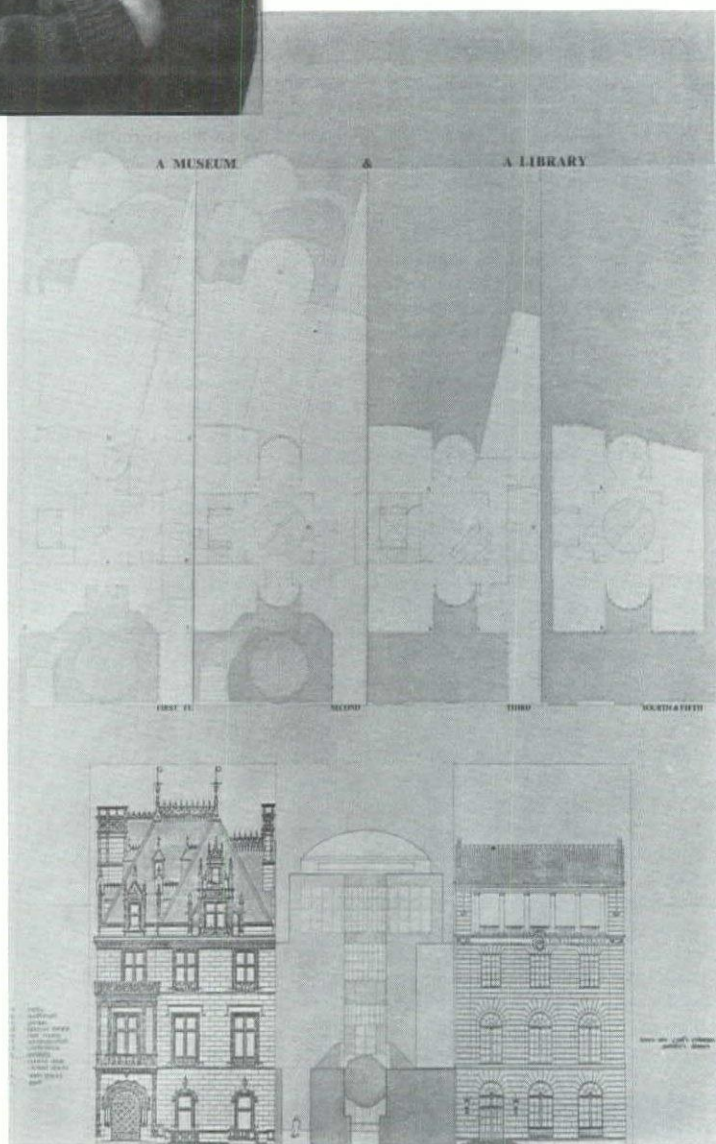
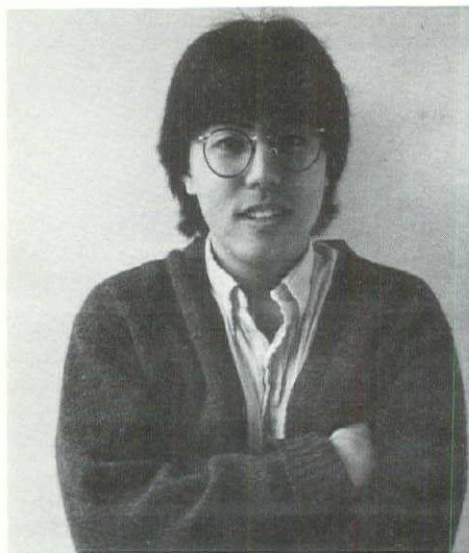
The program of the competition calls for relocation of the central Fairfax County governmental administrative complex to a newly purchased 183-acre site. The move is anticipated to be accomplished in phases starting in 1985 or 1986 and continue until an estimated completion in 2020.

The Northern Virginia Chapter, A.I.A., was instrumental in having the competition conducted in accord with guidelines recommended by the Institute. Reston architect, Michael F. LeMay, represented the Chapter in this effort. In addition, LeMay and other architects served on the Citizens Advisory Committee charged with organizing both the competition and its program.

Virginia Society Prize

Won by

VPI & SU Student



WINNER, 1982 VIRGINIA SOCIETY PRIZE

KELVIN MICHIO ONO
5th Year Student
VPI & SU

Kelvin Michio Ono has been named winner of the third annual Virginia Society prize competition, sponsored by the Virginia Society of the American Institute of Architects.

Ono, a native of Okinawa, is a product of the Arlington, Virginia public school system and is currently in his fifth year at VPI & SU. He is the son of Dr. Mitsuo Ono, an economist and statistician, and Mrs. Yoko Ono, a translator with the patent office.

His previous design-related awards include: Selection for a Seminar in Venice under J. P. Kliehues, Vittorio Lampugnani, and Thomas Bartels (1981); and winning entries in Smithsonian kite design and fabrication contests (1979 & 1980). He has also studied in Europe—Switzerland, Italy and Finland—and at the VPI & SU Architecture Annex in Alexandria.

Over 270 undergraduate and graduate students entered the \$1,000 prize competition, which entails a "weekend sketch problem" released and collected simultaneously at each of the three architecture schools in Virginia; VPI & SU, the University of Virginia, and Hampton Institute. This year the problem was to design a library and museum to house the architectural collection of Thomas Jefferson, to be placed in an urban infill location.

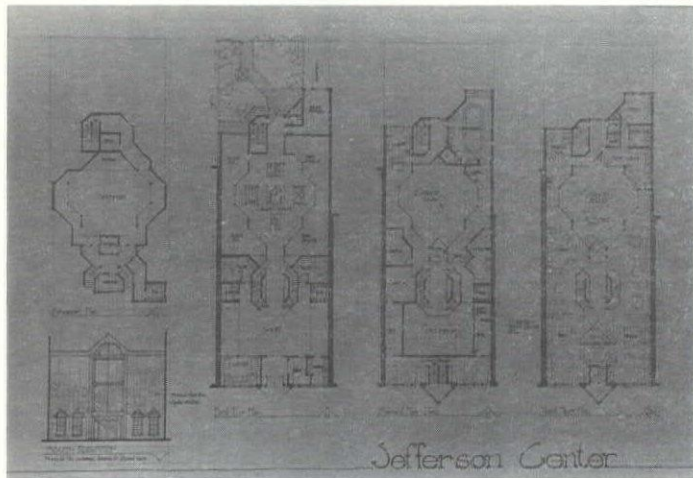
The first such competition, in 1980, involved design of a rebuilt Volkswagen showroom and garnered only 37 entries. The 1981 problem was a phototype branch banking facility, with 127 entries. Students from VPI & SU were winners both years.

Selection of the winner was by a jury of six architects—one from each of the faculties of the three schools, and three in private practice. Identity of the entrants and their schools was concealed until judging was completed.

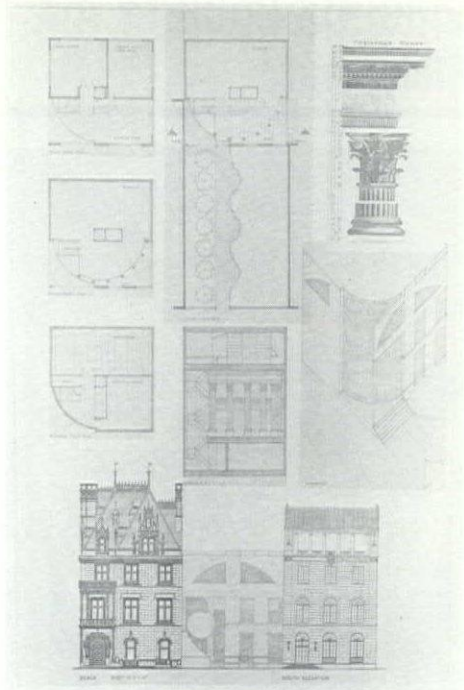
In addition to the winner of the \$1,000 Prize, the jury singled out four near-winners for Merit Awards. They were: Tom Hill and David Richards, undergraduates at VPI & SU; Bruce H. Landenberger, graduate student at University of Virginia, and Wesley L. Page, undergraduate at Hampton Institute.

Twelve additional competitors submitted entries deemed worthy of commendation: Judith Ashe, William Cromar, Martin Eiss and Andrew Lewis undergraduates at VPI & SU; Charles Dickey and Jane B. Greenwood graduate students at VPI & SU; James E. Moore, IV, undergraduate at University of Virginia; and Lynne Brady, William Gerstmyer, Joel E. Grushkin and Paul King, all graduate students at University of Virginia.

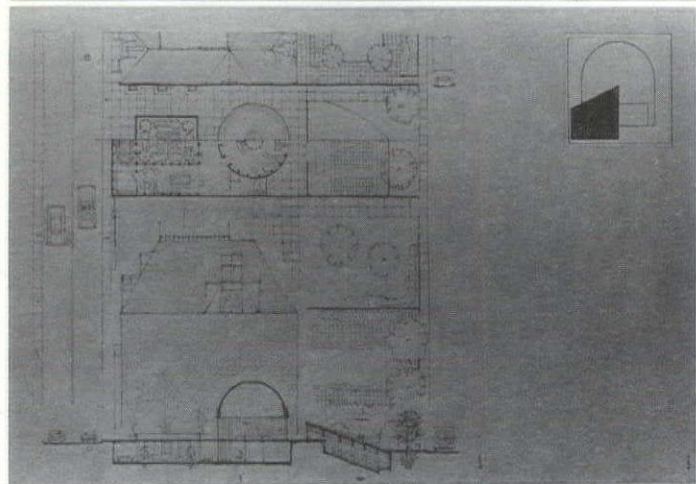
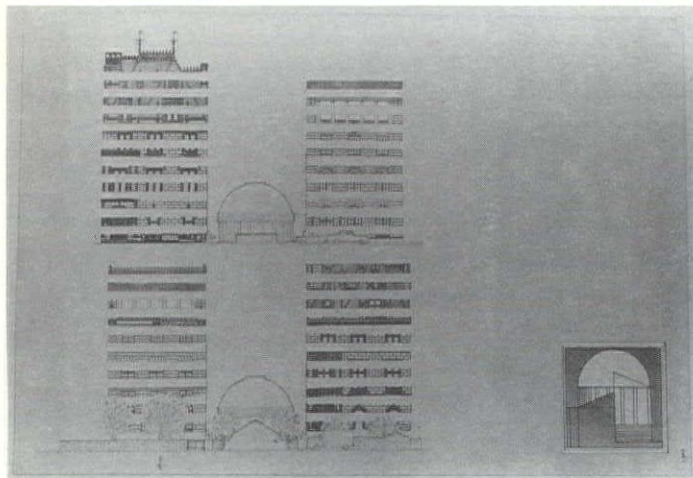
Merit Awards



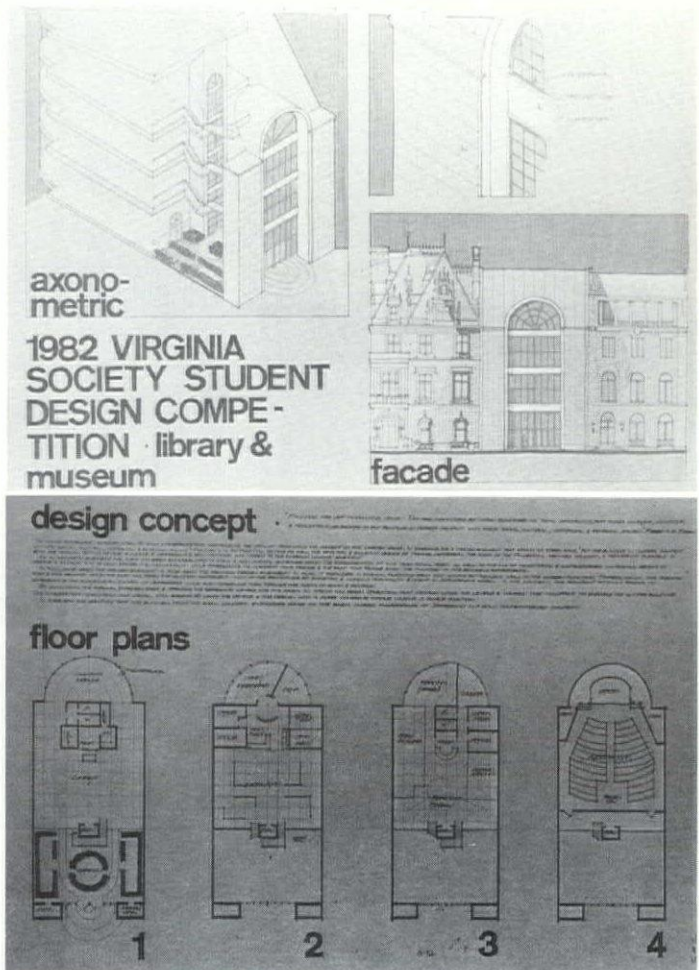
TOM HILL
4th Year, VPI & SU



BRUCE H. LANDENBERGER
Graduate Student, UVa.

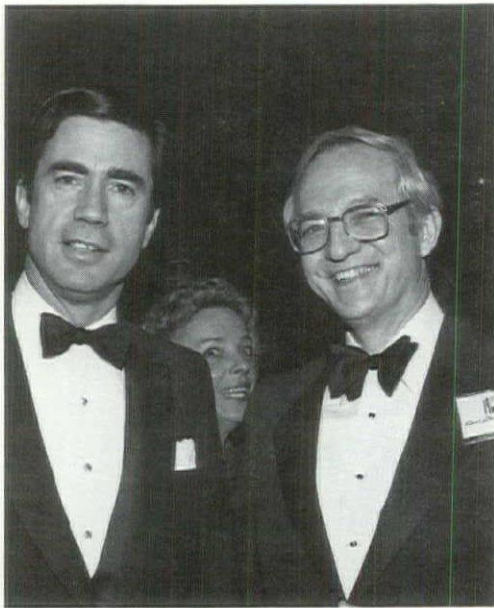


DAVID RICHARDS
3rd Year, VPI & SU



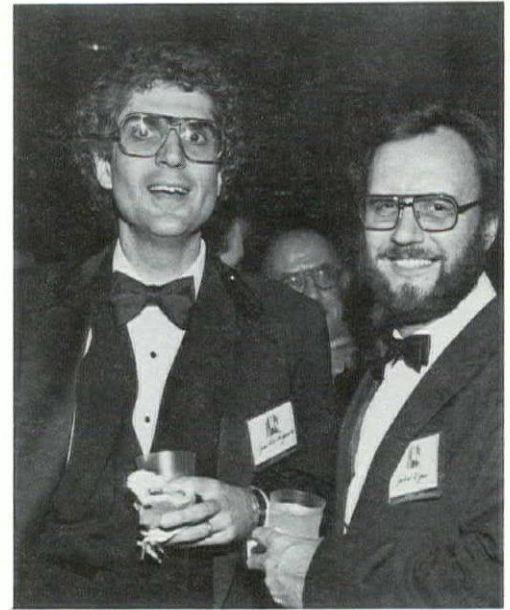
WESLEY L. PAGE
3rd Year, Hampton Institute

VIRGINIA SOCIETY AIA, WINTER MEETING Richmond

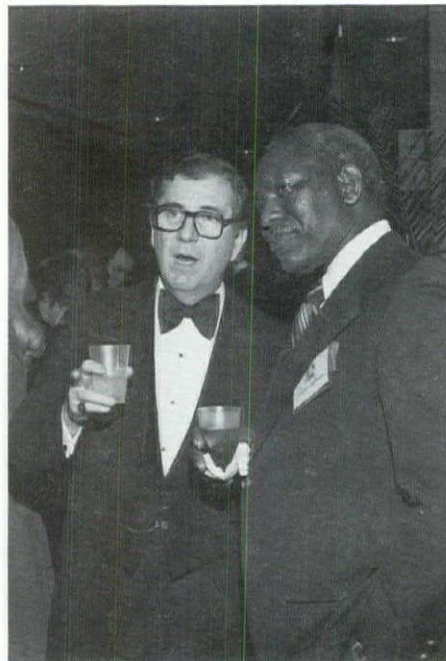


Governor Charles S. Robb and 1982 Virginia Society AIA President Donald L. Strange-Boston, AIA, take time to smile for the camera.

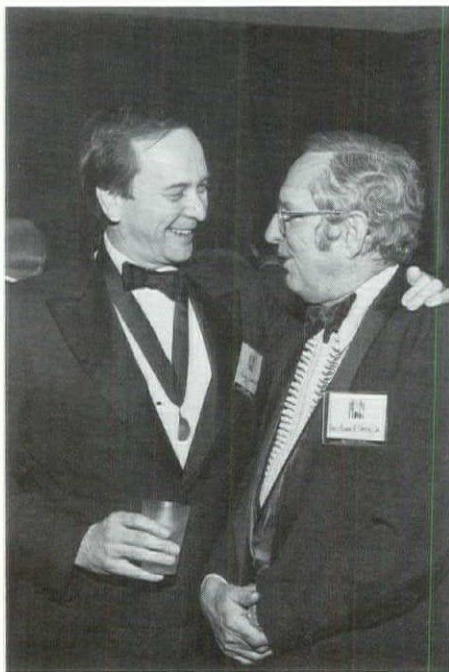
The Virginia Society, American Institute of Architects hosted the Virginia General Assembly at a reception on Thursday, February 4, 1982. The next day, they put themselves "on trial" in a unique and informative presentation of the pros and cons of the various legislative issues facing the profession. Photos on these two pages capture only a very small percentage of the fun, enjoyment, and "solemnity" of the two occasions.



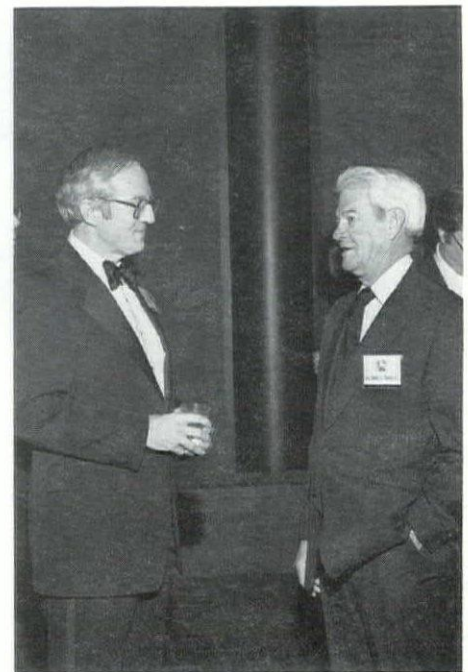
James J. DePasquale, AIA, Chairman of the Winter Meeting and John W. Ryan, Jr., AIA.



Frederic H. Cox, AIA and John Henri Spencer, AIA, Dean, Hampton Institute School of Architecture. Dean Spencer was one of the "witnesses" at the mock trial held the next day.



R. Randall Vosbeck, FAIA and Delegate Alson H. Smith, Jr.



President Strange-Boston chats with Delegate Harry J. Parrish.



There was music for the listening and dancing pleasure of the group.



Members and guests enjoyed renewing acquaintances at the reception.



Governor Robb chats with Sallie Ray Wilkerson and her husband, Charles E. Wilkerson, AIA.

Photography by Paul Huffman



"Prosecutor" Arthur Kornblut, AIA (standing), questions "Witness" Leo Cantor, Richmond building official, at the mock trial held in City Hall. Others involved in the "trial" are: "Defense Attorney" Murray Wright (seated at left); "Bailiff" Don Brown, AIA—President, James River Chapter (seated by witness); and Judge James E. Sheffield.



A break in the "proceedings" at Richmond City Hall.



Judge Sheffield, "Prosecutor" Kornblut, and "Jury" members look on as "Bailiff" Brown administers the oath to "Witness" Joe E. Bartell, Henrico County building official.

IMMER DRYWALL COMPANY INC.

Drywall
Acoustic (Tile & Spray)
Metal Frame
Office Partitions
Curtain Wall
Insulation

Phone 301-948-6330

P. O. Box 2218

Gaithersburg, MD 20879-0218



Payne & Payne Construction Company

General Contractors

St. Reg. #6887

Commercial—Industrial

Phone 804-292-4487

North Main Street

BLACKSTONE, VIRGINIA

E. M. Martin, Inc.

CHARLOTTESVILLE, VA.

Roofing and Sheet Metal
Contractors

AIR CONDITIONING
HEATING—VENTILATING

Phone 293-8177

821 Albemarle

P. O. Box 749

Charlottesville, Va.

HOT MIX ASPHALT PAVING

SUPERIOR PAVING CORP.

SERVING
NORTHERN VIRGINIA

St. Reg. #15539

Box 379

CENTREVILLE, VA. 22020

703-631-0004

RELEVANT REFLECTIONS

I Can Never Forgive Frank Lloyd Wright

by Ralph Snell, AIA

House. Home. Abode. Dwelling. Domicile. Residence. Cabin. Cottage. Hut. Mansion. Palace. Villa. Lodge. Chateau. Castle. Apartment. Brownstone. Duplex. Flat. Tenement. Condo.

And the list continues.

Anything with so many words to describe it must be important. Like the Eskimos' multiple words for snow—it is our environment, it is what we are surrounded by. It is the building type that there are more of than any other.

Picture "home sweet home." Is it your own home? Or is it a little white cottage nestled amidst nature, approached through a rose-covered trellis?

Picture "a machine for living." Is it your own home? Or is it a white box sitting above the ground with a horizontal band of windows and pipe rails?

Whether it be home sweet home or a machine for living, it is overlaid with a complex pattern of associations and images. Its image inseparable from its existence.

What is your home? Could you describe it? How would you begin?

The people who plan planned communities (the accepted phrase now that housing development is taboo) like to give their planned communities names to set the associations firmly in mind.

Like Camelot. In Camelot, you will live on King Arthur Row. In Camelot, you will live in the Ivanhoe model raised ranch. In Camelot.

Toss in a few castellated walls, some leaded glass, and a torch or two and the image is complete.

It's all in the name. Would you expect anyone named Joe Green to be a composer of opera? But that's just what Guiseppe Verdi translates to.

Conjuring up names for planned communities works like this:

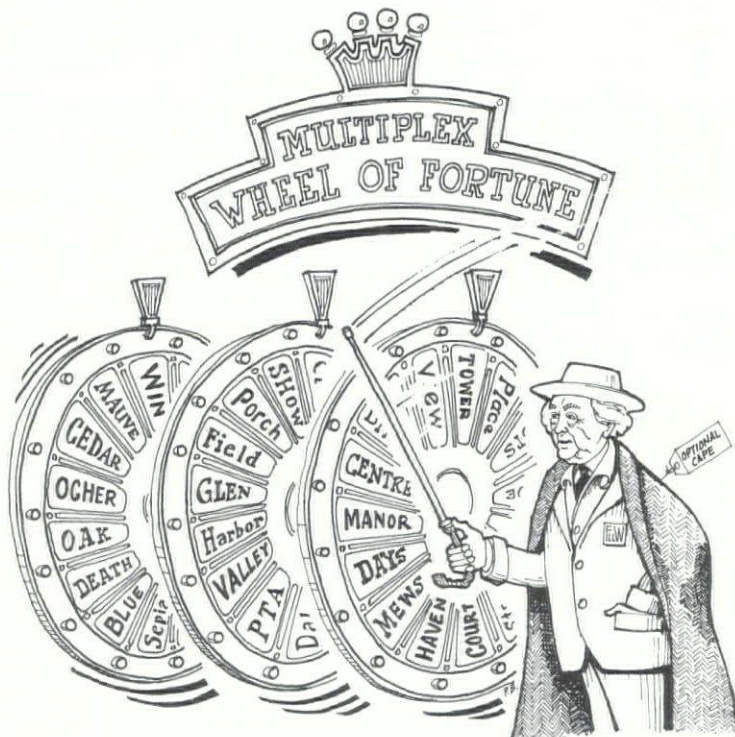
There are three wheels. Kind of like the wheels of chance at a carnival. On each wheel, in the places where the numbers usually are, are words.

On wheel number one, the words are names of varieties of trees, colors, or an occasional stray adjective.

On wheel number two, the words are always nouns describing a location.

And on wheel number three, the words are: View, Place, Centre, Haven, or Manor.

Spin each of the wheels.



THE LATEST ORGANIC RESIDENTIAL COMMUNITY NAMING STRATEGY GAME IS DEMONSTRATED BY THE INVENTOR OF THE RANCH HOUSE.

You get Maple Glen Manor. Green Field Centre. Sleepy Harbor Haven.

Fashions change though.

Currently making a strong play for a spot on wheel number three, if it's a town(e)house community is Mews. If it's a condominium community, it's A Condominium.

Rapidly, the PR people get to work developing and fixing the image. Call the architect. No not colonial. Not this time. We need half-timbering. They have that weatherproof styrofoam now, don't they? Just give us a set of the plans. We'll make the changes.

It's built. And now it's time to have the interior designer do up the models. These are the tools at the designer's disposal:

- an unlimited budget
- three-quarter full size furniture
- wax fruit and dried flowers
- and of course,
- a major glass manufacturer's six month factory production of mirrors.

Oh yes, and one more thing. A series of plastic cards to be interspersed about the model, at key features like the downstairs lavatory, jacuzzi, greenhouse window, self-cleaning oven, and upper hall skylight, bearing the single word "optional."

Access to model homes used to be easy. You would park your Chrysler Behemoth (somehow just out of view of the sales office) and run in the front door of "The Montclair." Of course you

Unique
Custom-made
FLAGS

Designed and
produced to your
specifications —
for your home
or office.

Call
Millie Jones



FESTIVAL FLAGS!

2307 MONUMENT AVENUE RICHMOND, VIRGINIA (804) 358-5284

McClure Lumber & Builders Supply Co., Inc.

703-835-8611 — Phones — 703-835-8612

For Ready Mix Concrete Call Us at
Lebanon, Va. — 703-835-8216

LEBANON-GRUNDY-RICHLANDS-TAZEWEILL-McCLURE & CLINTWOOD, VA.



R. E. Lee and Son, Inc.
1460 Hydraulic Road
Charlottesville, Virginia 22906
Telephone (804) 973-1321



**Construction and Engineering
Management Since 1939**

knew your conversation was being picked up by the full stereophonic intercom (optional) with direct connection to the sales office. But you could probably get in and out before a sales rep descended too heavily.

But in today's market, the stakes are higher. Every looker is a potential creative financing user and mailing list addition. Now, subtle yet insistent fences define pathways from Toyota to model by routing you through the sales office. There is no escape.

Sales offices invariably have a plexiglass encased relief model of the obviously heavily wooded site. The key word here is "future." Future community centre. Future swimming pool. Future tennis courts.

Why hasn't someone come up with the idea of calling a planned community "The Future?" As in—Why Don't You Come And Live In The Future? Or—The Future Awaits. Featuring, The Einstein (a relatively inexpensive split-level). Einstein's view of the future: "I never think of the future. It comes soon enough."

The man who brought us to the future we're now in, in residential architecture, is Frank Lloyd Wright. I can never forgive him. Never.

He is the one who invented the ranch house. And inflicted it on America.

Through the years, his innovative ideas of molding spaces and shaping forms have been perverted into the ranch house than wanders instead of rambles, with spaces inside that don't flow but simply open to one another because of a missing wall. His deformed progeny, the raised ranch, makes our landscape look like the ground either shifted three feet up or six feet down. Like the view an 18th century rendering of the Roman Forum gives us of half-buried monuments.

Not an altogether inappropriate image.

SEABOARD PAINT & SUPPLY CO.

Norfolk, Va. 489-7600
Newport News, Va. 877-9266

SEABOARD BUILDING SUPPLY

Virginia Beach, Va. 486-3200

Distributors of

SCHLAGE, YALE & KWIKSET
HARDWARE

LIPHART STEEL CO. *Incorporated*

•DESIGNERS
•FABRICATORS
•ERECTORS

STRUCTURAL STEEL—ORNAMENTAL IRON

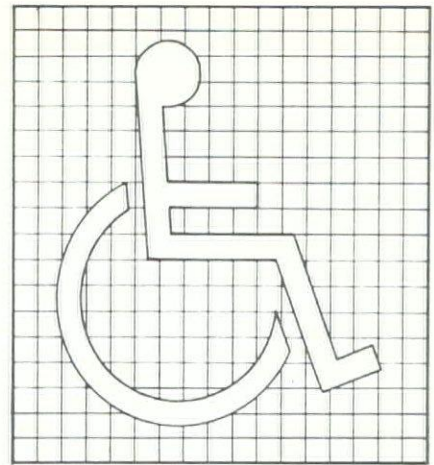
OFFICE AND PLANT

3308 Rosedale Ave.
Richmond, Va. 23230

PHONE

(804) 355-7481





SINGLE FAMILY HOUSING RETROFIT FOR A BARRIER FREE ENVIRONMENT

Residential retrofit is increasingly being recognized as an appropriate measure to accommodate the independent living needs of physically disabled people who wish to remain at home. In December 1977, the Comptroller General of the United States submitted a report to the Congress demonstrating the cost effectiveness of home health care as compared with institutional maintenance. The report indicates that it is financially advantageous for all but the most severely disabled people to live independently at home, rather than submit to custodial care.

Aside from the financial benefits that derive from independent living, it is clear that personal well being, self-esteem, and quality of life all are enhanced when the disabled person can live as normal a life as possible at home in the community. Advances in medical technology, prostheses, aids, and devices have been coupled with the reconfiguration of independent living subsidies and medical care reimbursement. These developments, and the growth of the deinstitutionalization movement, have supported the current trend toward providing for increasing numbers of disabled persons at home.

From the standpoint of the disabled individual, one of the major benefits of residential retrofit is that modifications can be designed to a specific environment and a particular disability. Unlike general guidelines and standards which are based upon the concept of a "prototypical" disabled person, adaptation of one's own home can be disability specific. In a sense this advantage is recognized for the first time in the American National Standard's Institute (ANSI) A117.1-1980 Standard. As defined in the ANSI Standard, adaptable housing involves provision of basic accessibility in new construction, but permits idiosyncratic needs to be met on an individual basis. For example, adequate support for grab

bars must be built-in during initial construction, but the actual fitting of grab bars can be postponed until a specific occupant's requirements are known.

Regardless of the disability, the first step in any attempt at residential retrofit should involve a careful client assessment. If the retrofit is to be appropriately designed, this assessment must take into account not only *present*, but *projected*, functional *capabilities and desires*. In some cases, progressive physical debilitation may be expected to further curtail already limited functioning. Activity preferences may change with a change in physical capability or psychological state. Therefore, a basis for prioritizing proposed modification should be established in the assessment process so that unnecessary or inappropriate retrofit may be avoided.

The assessment, to be effective and informative, should elicit data regarding the physical capabilities of the client, including methods of mobility, balance and coordination characteristics, fine motor capacity, reach limitations, agility, stamina, sensory deprivation and/or impairment, etc. An occupational therapist and an architect should be consulted in the use of this, or any, assessment instrument. But, the most important guidance, whenever possible, should come from the disabled person.

Residential retrofit involves altering the household environment to facilitate independent living for the disabled resident. Such modification is critical to enabling all but the most severely disabled person to continue to live at home, rather than having to submit to generally more-expensive and less-preferred institutional care.

A distinct advantage of retrofit is that it can respond to the specific needs of a known individual. Such disability-responsive design must, however, be based upon thorough individual and environmental assessments. Ideally, these assessments should be conducted by an architect working with the disabled resident, and, if necessary, an occupational therapist.

Activities of the National Center are endorsed by the Executive Committee of the AIA. The Institute, in fact, helped found the National Center in 1974 as a means to focus attention on the growing national accessibility movement. Since its incorporation, the National Center has become the recognized national source for information, education and technical assistance on designing for a barrier free environment.

With the Institute's strong backing, the National Center is now attempting to involve architectural firms as members and as users of its services. As members of the National Center, architects can gain a wealth of valuable accessibility planning information, including specially written technical bulletins and a bi-monthly newsletter devoted to accessibility issues.

The AIA encourages its members to seriously consider becoming a member of the National Center for a Barrier Free Environment. The National Center needs your support in order to improve and expand its services during the 1980s. Membership information is available from the National Center for a Barrier Free Environment, Suite 1006, 1140 Connecticut Avenue, N.W., Washington, DC 20036. Additional information on accessibility can be obtained by contacting the National Center on their Toll-Free Telephone Number, 800/424-2809.

This article is adapted by permission from a copyrighted "Access Information Bulletin" published by the National Center for a Barrier Free Environment. Authored by Peter Orleans, a Denver architect with extensive experience in barrier free residential research and design, the complete bulletin provides greater detail on the subject, including a useful "Client Assessment Form."



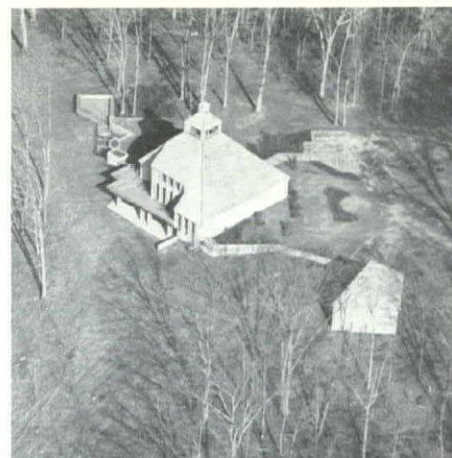
Gregory Construction Co., Inc.

GENERAL CONTRACTOR

COMMERCIAL — INDUSTRIAL

9410 Prince William St., Manassas, Va. 22110

Phone 368-8181



Private Residence

Goochland County

Interplan—Architect

Landscape Architect, Gary Glower Assoc. • General Contractor, Harold L. Keeton • Photography, Carlos Chazo.



Project requirements for this single-family residence were unusual because the clients are avid art collectors. They needed as much wall space as possible for their collection, as well as special areas for research and conservation.

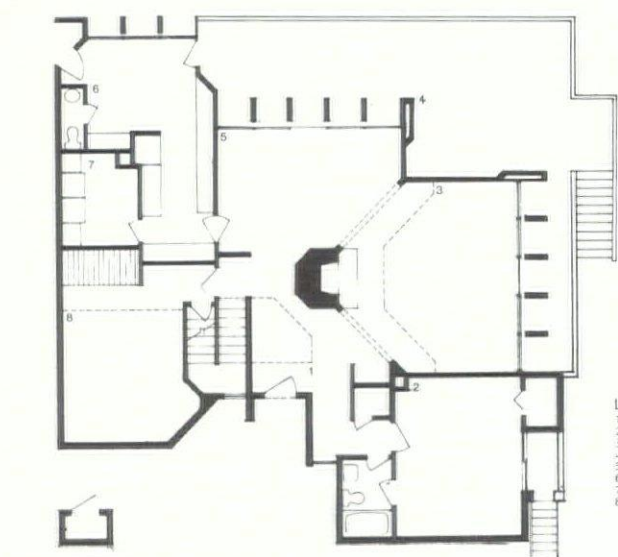
The James River site presented its own unusual requirements. Since the river flows directly below and west, the elevation was unprotected from the fierce, late afternoon sun in the direction of the river view. To adapt to these conditions, the house was placed at a 45° angle to the river. As a result, sliding glass doors from major rooms were shielded by a series of walls perpendicular to the glass. This directed the view up and down the river, rather than directly across it, protecting the glass from direct exposure to the sun.

Harold L. Keeton of Manakin-Sabot was general contractor and handled carpentry.

Subcontractors & Suppliers
(Richmond firms unless noted)

C. F. Richmond, Inc., Crozier, excavating & sodding, seeding, etc.; Watkins Nurseries, Inc., Midlothian, landscaping; Earl Henley of Manakin Service Station, Manakin-Sabot, landscaping contractor; W. J. Rapp Co., Inc., foundations; C. A. Guard, Masonry Contractor, Inc., masonry contractor; Troy Masonry Co., stonework contractor; West End Fabricators, Inc., steel supplier/erection; Miller Manufacturing Co., Inc., millwork; and Wood Roofs, Inc., roofing.

Also, G. T. Duke Insulation Co., Inc., wall insulation; R. C. Goodwin, wood doors; Pella Virginia, Inc., windows; Pleasants Hardware, hardware supplier; Hampshire Corp., gypsum board contractor; Shore's Painting & Decorating, Cartersville, painting contractor; Lawrence R. Muse Plumbing, Heating & Air Conditioning Corp., plumbing contractor; Varina Refrigeration Service, Inc., heating/air conditioning contractor; and Cornell & Waldbauer, electrical contractor.

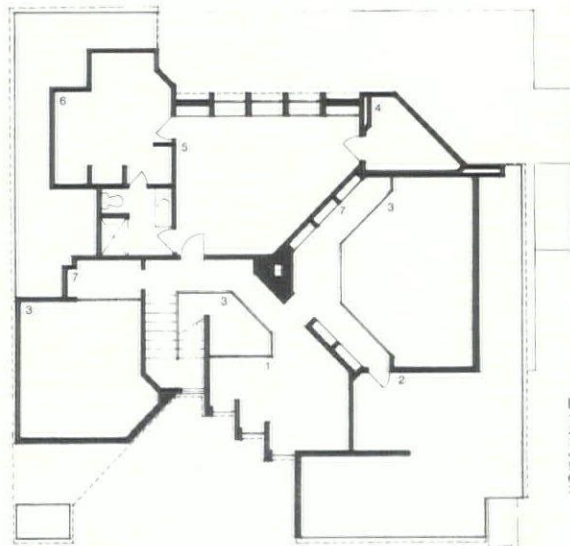


FIRST FLOOR PLAN

0 2 5 10

LEGEND

- 1 Entrance Hall
- 2 Guest Room
- 3 Living Room
- 4 Deck
- 5 Dining Room
- 6 Kitchen
- 7 Laundry
- 8 Art Storage



SECOND FLOOR PLAN

0 2 5 10

LEGEND

- 1 Library
- 2 Attic Storage
- 3 Open to Below
- 4 Deck
- 5 Master Bedroom
- 6 Dressing Room
- 7 Balcony

CORNELL & WALDBAUER

Electrical Contractors
St. Reg. #7198

817 W. Cary St.

Phone 804-643-6279

RICHMOND, VA. 23220

VARINA REFRIGERATION SERVICE, INC.

Va. State Reg. #7359

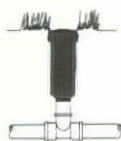
3108 No. Boulevard Phone (804) 355-9126
Richmond, Virginia 23230

**Capital
Masonry
Corp.**

"BUILD WITH BRICK"

BRICK CONTRACTOR

2308 ANNISTON ST. • RICHMOND, VIRGINIA 23223 • PHONE: 649-7636



RESIDENTIAL & COMMERCIAL
LAWN SPRINKLER INSTALLATION

Johnson Irrigation Corporation

MORRIS JOHNSON, JR., PRESIDENT

810 RESEARCH ROAD
RICHMOND, VIRGINIA 23236

TELEPHONE
804-794-4218



LONE STAR INDUSTRIES, INC.

977 NORFOLK SQUARE
NORFOLK, VIRGINIA
(804) 855-8611

- * READY MIXED CONCRETE
- * SAND
- * GRAVEL
- * STONE
- * WITE-LITE MASONRY UNITS
- * CONCRETE PIPE
- * PRESTRESS CONCRETE
- * CEMENT

West End Fabricators Inc.

*Commercial—Industrial
Residential*

Steel Joist & Miscellaneous Metals
Steel Erection

Phone 804-270-7303

Route 2, Box 83-A
Richmond, Va. 23233

The Shed

CONTEMPORARY & EUROPEAN
STYLES OF CUSTOM WOODWORKING
KITCHENS — VANITIES
COMMERCIAL SALES COUNTERS
BUILT-IN BARS — BOOKCASES

Commercial — Industrial

Dial 464-3054
If No Ans. Dial 499-2657

5900 Thurston Ave.
Virginia Beach, Va. 23455

Varney

ELECTRIC CO., INC.

TO SERVE INDUSTRY

INDUSTRIAL — COMMERCIAL

ELECTRICAL CONTRACTOR
INSTALLATION — SERVICE

Phone (703) 343-0155

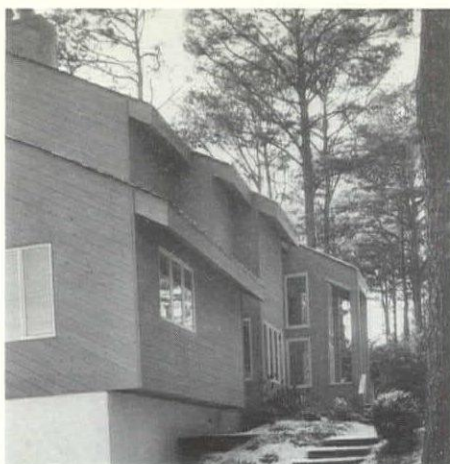
2301 Patterson Ave., S.W.
ROANOKE, VA. 24016

Southside Bank

Member F.D.I.C.

TAPPAHANNOCK, VA.
AYLETT, VA.

ESTABLISHED 1910



Residence for Dr. and Mrs. Paul Schellhammer

Virginia Beach

The Design Collaborative—Architect

Interior Design, Mrs. Dee Clare of Cofers • General Contractor, C. F. Hardy Building Corp. • Photography, Laszlo Aranyi, AIA.

One cold winter afternoon, the Schellhammer family returned from a Saturday Matinee to find their home burned to the ground. All that was left was the walk-out basement and part of the south wall and chimney. What was once a three-story garrison Colonial New England Farmhouse with southfacing porches was just a charred ruin. But standing proudly erect was the chimney of the old fireplace made of bricks that had been through two fires. Those bricks were salvaged from the old Princess Anne Jailhouse when it burned down many years ago, to make the chimney for the Colonial showplace known as "The Maples." It had been built by a nurseryman on one of the loveliest points of Lynnhaven Bay and the surrounding acreage contains 70-80 different varieties of camelias, maples, tall pines and hollies.

Being of practical mind and desiring the modern energy efficiency of passive solar design, the Schellhammers presented the architects of The Design Collaborative with the challenge to redesign their new home on the foundations of the old, keeping the basement/garage area but restructuring the floor plans, orientation, style and character of the house to incorporate the passive solar design features for the lighter, more modern lifestyle they wished to pursue hereafter.

Situated on the quiet waters of the bay, the lot faces south and was ideal for passive solar design. Light, light, and more light, was what they wanted. Interior spaces of soft white glow in the sundrenched rooms which are accented with skylights, circular view windows, sliding glass doorwalls opening onto balconies, and a southfacing sunporch with white ceiling fans.

One historic touch remains. The bricks from the old chimney were used to face the fireplace and hearth in the den of the new home. They are naturally charred and irregular and provide a

(Continued on page 60)



C. F. HARDY Building Corporation

General Contractors

St. Reg. #12359

*Specializing in
Interior Store Construction*

**2468 Pleasure House Rd. Phone 804-464-5666
Virginia Beach, Va.**

C. L. CARTER Heating & Air Conditioning Company

*State Registration
#16243*

**Phone (804) 497-1111
If No Answer Call
(804) 497-1112**

**248 Pennsylvania Avenue
Virginia Beach, Va. 23462**

C. F. RICHMOND, INC.

*Excavating
Motor Grading
Bull Dozing
Site Clearing*

**Phone 804/784-3345
If No Answer — Dial 784-5583**

CROZIER, VIRGINIA 23039

WELLER TILE & MOSAICS INC.

●
**— Phones —
(703) 777-2955
Metro # 450-5455**

●
**P.O. Box 25
Ashburn, Virginia 22011**



Gypsy Hill House

Staunton

Environmental Design Group, Inc.—Architect

Mechanical/Electrical Engineer, Leland D. Eisenhower & Assoc. • Structural Engineer, Dragan Areng Assoc. • General Contractor, Hughes & Dalton Construction Co. • Photography, Claude Miller.

This apartment building located on the edge of Gypsy Hill Park in Staunton, provides 100 dwelling units for the elderly and handicapped. The focal point of the two- and three-story "U" shaped building is a landscaped court which provides a large protected exterior space for residents' social activities. The three main wings of the building are terraced into the existing topography with all levels interconnected at the two elevator cores.

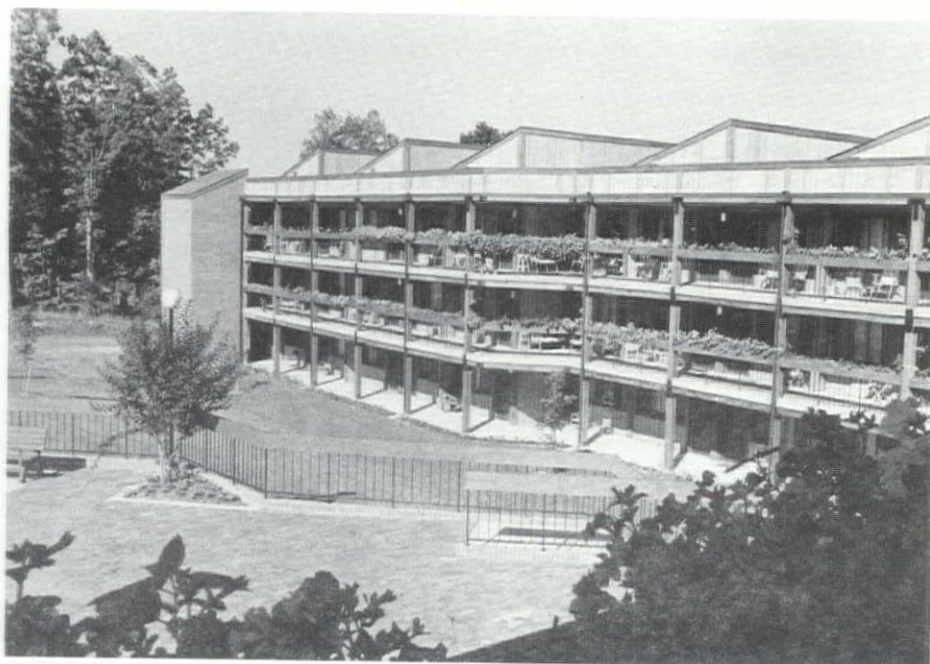
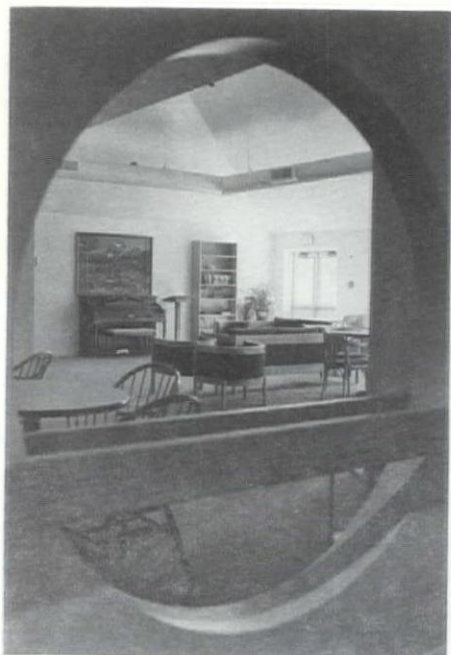
The main design feature of the complex is the wide exterior corridors on the courtside of the

building, which serve both as access to the apartments and as a balcony sitting area in front of each unit for informal socialization among the residents. The apartments themselves utilize a linear arrangement of spaces, with the bath and kitchen placed between the living room and bedroom. This allows sleeping areas to be on the quieter side of the building as well as enabling cross ventilation through the living unit. Besides the apartments, the building includes a large multi-purpose room overlooking the main entrance lobby, a lounge with small

kitchen for informal gatherings, and a central laundry.

Stained wood is the predominant material of the building, and lends a warm residential feeling to the exterior. The balconies are supported by exposed heavy timber beams and columns and have railings with built-in planter boxes. Besides adding a variety of color to the balconies, the planter boxes have become a popular way to demonstrate residents' gardening skills.

(Continued on page 63)





Private Residence

West of Richmond

M. Jack Rinehart, Jr., AIA—Architect/Engineer

Landscape Architect, Mechanical/Electrical Engineer, M. Jack Rinehart, Jr., AIA • Structural Engineer, David Morris, P.E. • General Contractor, Tavern Hill Builders • Photography, M. Jack Rinehart, Jr., AIA.

The site of this private residence is a wooded promontory overlooking a lake on a farm west of Richmond. The massing was configured to straddle the ridge in a manner that would define exterior entry, side yard, and rear terrace spaces and maximize the solar exposure to the south. Because of its setting, the concept was developed upward, abstracting the feeling of the typical late nineteenth century Virginia farm house.

Because the owners have a family of six and many friends, live in a rural community, and have many interests, they required a large home with more than the usual number of public spaces. These were placed to take advantage of the view of the lake and the flow to exterior spaces. Solar rooms, to collect solar radiation from the the south, were located to adjoin the public spaces to handle the overflow and the many varied interests. These spaces may be closed off when not used, allowing the home to actually shrink by a third its size.

The exterior materials utilized were those that were felt to be appropriate to carry through the feeling of the abstracted old Virginia farm house, taking advantage of a nearby stone quarry.

Tavern Hill Builders of Powhatan was general contractor and handled foundations, carpentry, waterproofing, wall insulation and foundation insulation.

Subcontractors & Suppliers (Richmond firms unless noted)

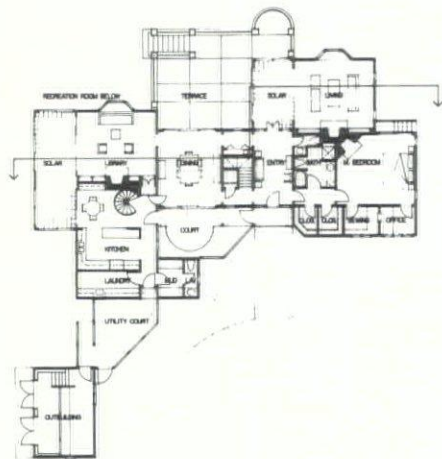
Elwood G. Williams, Chesterfield, excavating & landscaping contractor; Watkins Nursery,

Inc., Midlothian, landscaping; N. M. Boatwright, Powhatan, concrete contractor; W. F. Wright, Inc., Amelia, concrete supplier; Donald L. Lancaster, Powhatan, masonry contractor & stonework contractor; Concrete Pipe & Products Co., Inc., masonry manufacturer; Southside Builders Supply Corp., masonry supplier & mortar; Luck Stone Center, Manakin, stonework supplier;

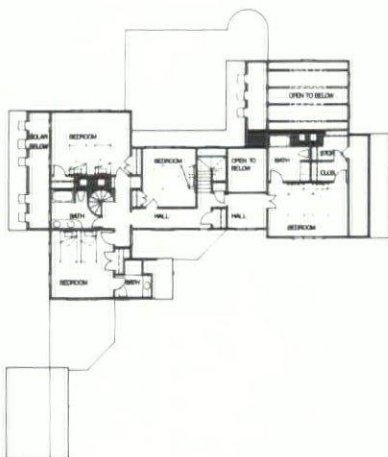
Welding Service, steel supplier/erection & handrails; and R. C. Goodwyn & Sons, Powhatan, structural wood.

Also, Ruffin & Payne, Inc., millwork, paneling, cabinets, wood doors & windows; Shores Painting & Decorating, Cartersville, caulking, painting contractor & paint supplier; Willard L. Council Roofing, Inc., roofing & sheet metal; Bin-





FIRST FLOOR PLAN

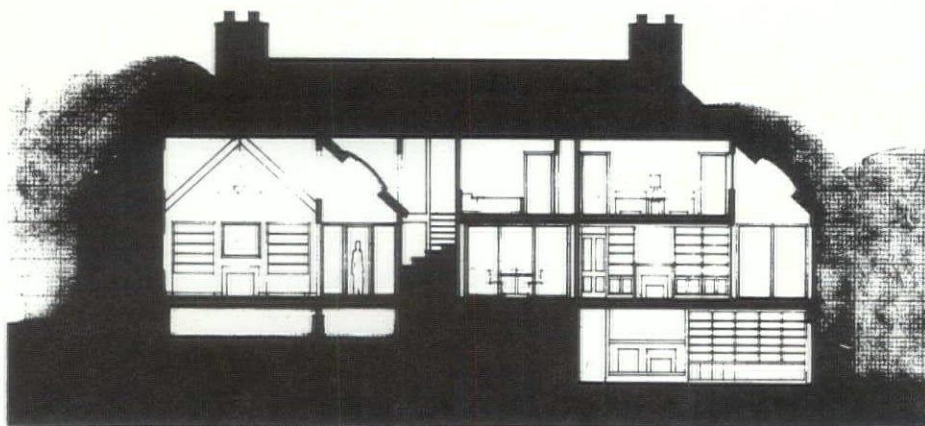


SECOND FLOOR PLAN

swanger Glass Co., glass, glazing contractor & metal doors & frames; Martin Hardware Co., Charlottesville, hardware supplier; E. L. Cox Drywall, Chesterfield, gypsum board contractor; and Waller Brothers Tile, Marble & Terrazzo Co., ceramic tile & structural (glazed) tile.

And, Barney's Carpet Center, carpet; Barnes Lumber Corp., Charlottesville, oak flooring;

Blankenship's Appliance Co., Powhatan, appliances; Charles Green Plumbing, Inc., Powhatan, plumbing contractor; Barnett's Service Co., Midlothian, heating/ventilating/air conditioning contractor; Adkins Lighting Center, lighting fixtures supplier; Southeastern Electric Supply Corp., electrical equipment supplier; and M. E. Davis, Powhatan, electrical contractor.



LIVING ROOM

SOLAR ROOM

BEDROOM
DINING ROOM

BEDROOM
LIBRARY
SITTING

SOLAR ROOM
RECREATION

SECTION

to tell the Virginia Story

MAY-JUNE 1982

The Hutter Corp.

Wholesale Lumber

Phone 804-847-5588

Lynchburg, Virginia 24501

LISKEY, INC.

Access Flooring

Phone (301) 796-3300

**P.O. Box 8748
Baltimore, Maryland 21240**

Dover

Elevator Co.

New Address in Richmond, Va.

**6717 Janway Road
Richmond, Va. 23228**

Also—Roanoke & Norfolk, Va.

Serving the Shipping Of the World

Since its organization in 1865 the Virginia Pilot Association has been responsible for the safe passage of billions of dollars worth of commerce through the territorial waters of the Commonwealth.

•• CITATIONS ••
FOR OUTSTANDING SERVICE
U.S. NAVY
HEADQUARTERS FIFTH NAVAL
DISTRICT
DISTRICT INTELLIGENCE OFFICE,
FIFTH NAVAL DISTRICT
U.S. ARMY
ARMY SERVICE FORCES
ROYAL BRITISH NAVY
WAR SHIPPING ADMINISTRATION
UNITED STATES COAST GUARD

**VIRGINIA PILOT
ASSOCIATION**

NORFOLK — NEWPORT NEWS

R. L. COUNSELMAN, JR., President



Interstate

ELECTRIC SUPPLY CO., INC.

MAIN OFFICE
8435 LEE HIGHWAY
FAIRFAX, VA. 22031
560-2500

FREDERICK, MD.
HAGERSTOWN, MD.
CHARLOTTESVILLE, VA.
LYNCHBURG, VA.
MANASSAS, VA.



ALEX. BROWN & SONS

Established 1800
America's Oldest Name in Investment Banking

One James River Plaza
7th & Cary Streets, Richmond, Virginia 23219

Telephone (804) 644-8000
Member New York Stock Exchange & other leading exchanges

AIR MOVERS, INC.

Heating, Ventilating, Air Conditioning
Contractors

Phone 703-451-7477

7655 Fullerton Road

Springfield, Va. 22153

JACK BAYS, INC.

BUTLER PRE-ENGINEERED STEEL BUILDING SYSTEMS

General Contractor

St. Reg. #6139



P.O. Box 1017
McLean, Va. 22101

Dial
703-356-2600

DWIGHT SNEAD

Landscaping & Paving Co.

Paving Contractors

- * Driveways & parking
- Lots a Specialty
- * Repairing
- * Surface Treatment
- * Asphalt Sealer



Serving Richmond & Vicinity

Dial 798-1611
Route 4, Box 142-B, Glen Allen, Va. 23060

W. R. HALL, JR.

Utilities & Sewer Work

Phone 804-587-5074

1214 Bill St.

Norfolk, Va.

F. Warren Martin
President

Jack M. Horn
Vice President



327 West Main Street
P.O. Box 590
Charlottesville, Virginia 22902
(804) 293-6171



Lightweight — Insulating, Fireproofing

Water Repellent Masonry Fill Insulation
Lightweight Insulating Roof Deck Systems
Insulation — Granular and Glass Fiber
Plaster Aggregate — Vermiculite and Perlite
Polystyrene Rigid Insulation
Mono-Kote (Cementitious Mixture for
Direct-Steel-to-Steel Fireproofing)

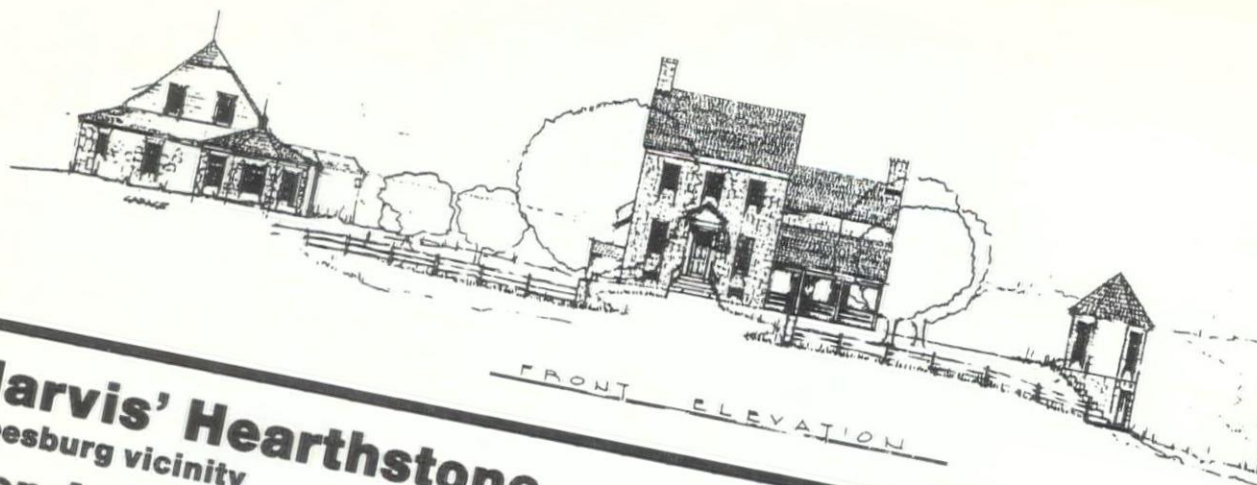
ZONOLITE DIVISION

W. R. GRACE & CO.

Plants Serving This Area

P.O. Box 1308, High Point, N.C.
Ph: 886-4807 — Area 919

P.O. Box 347, Beltsville, MD.
Ph: 953-2863 — Area 301



Jarvis' Hearthstone

Leesburg vicinity

Don A. Swofford, AIA—Architect

Landscape Architect, Bill Hoare, ASLA, ALI • Interior Design, David Oliver • General Contractor, A. Don Swofford Architects Builders • Photography, Swofford.

"Hearthstone" is a typical Loudoun County stone structure reflecting the strong Pennsylvania influences which filtered into the county in the late eighteenth century. The structure was built between 1801 and 1803 by William Osburn. (See Loudoun County records Lib 2N, Pg 170 and Policy no. 2215, Vol. 26 of the Mutual Assurance Society of Virginia) The house and estate passed through the hands of several owners until purchased by Mr. Joseph Jarvis in 1976.

Archival and architectural research show the house was burned about 1860 when Union troops marched through the area. The interior was rebuilt about 1870 while in the possession of the Darrell family. It was again rehabilitated in 1950 during Admiral Ingersoll's occupancy. The house is a simple three bay structure with two pile room plan and an attached kitchen and servant quarters. Demolition prior to restoration showed evidences of the original building as well as the 1870 remodeling.

The building was structurally stabilized and carefully renovated incorporating modern conveniences, while respecting its historic features. Where possible, the original detail was retrieved and elements beyond feasible repair were sensitively reproduced. An executive office was constructed and connected to the main house by a covered walkway that, although contemporary in efficiency, is traditional in design. Modeled after eighteenth century outbuildings, the design is appropriate for the site and serves to complement the main house.

Enhancing the main house and the construction of the office, design schemes were done for the landscape and environs. As with the construction projects, the design was determined to tell the Virginia Story



MAY-JUNE 1982

NICHOLS HARDWARE INCORPORATED

Phone 703/338-7131
P. O. Box 310
Purcellville, Va. 22132



MLS

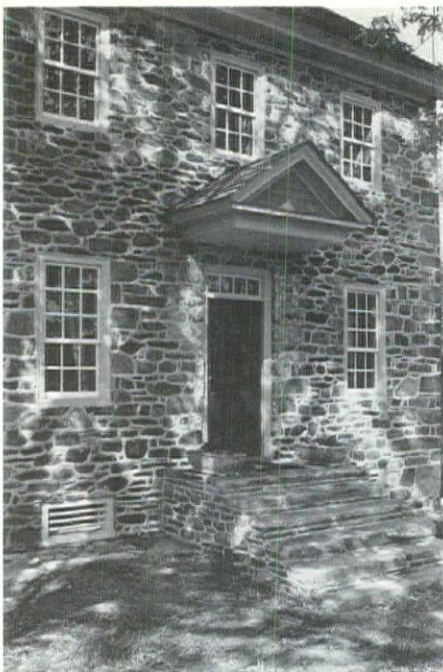


Rosenkranz
INC.

Jay Rosenkranz
President

— Telephones —
Office 301-657-3220
Residence 301-365-5113

7101 Wisconsin Avenue
Washington, D.C. 20014



the preservation and improvement of this important landmark.

Arcon/Don Swofford Architects Builders of Charlottesville acted as general contractor. Arcon also handled roofing.

Subcontractors & Suppliers

Bill Costello Landscaping & Tree Care, Aldie, landscaping contractor; Shockey Brothers, Inc., Winchester, concrete contractor; T. M. Chamblin, Hillsboro, stonework contractor; Kimmi Virts, Hillsboro, carpentry; American Wood Crafters & Joiners, Inc., Leesburg, millwork; Gaston, Murray & Wyatt, Inc., Charlottesville, paneling & wood doors; Jaeger & Ernst, Charlottesville, cabinets; Nichols Hardware, Inc., Purcellville, hardware supplier & paint supplier; and Eastern Paint & Sandblasting Co., Winchester, plaster contractor.

Also, Weller Tile & Mosaics, Inc., Ashburn, ceramic tile; Francis Reed, Hamilton, painting contractor & wallpaper; Pittsburgh Paint & Martin Senour, paint manufacturers; F & L Plumbing & Heating, Inc., Hamilton, plumbing contractor; Farmer's Heating Service, Hamilton, heating/air conditioning contractor; Interstate Electric Supply Co., Inc., Charlottesville, lighting fixtures supplier; and Forbes Electric, Purcellville, electrical contractor.

For Nursing Care in Your Home

RELY ON US!



**Medical
Personnel Pool®**

PHONE
282-9513

5001 West Broad Street
Richmond, Virginia

MEDICAL PERSONNEL POOL®

MPPSM provides experienced home health care professionals — from live-in companions to Registered Nurses.

All employees are supervised by an R.N. and are fully screened, insured, and bonded at no extra charge to you.

Available days, nights, around-the-clock, or as needed.

Call us 7 days a week, 24 hours a day, for home health care you can rely on.

**The
Farmers
Bank**
Member of FDIC
Windsor, Virginia

Hazzard Electrical Corporation

Industrial—Commercial

Phone 804-798-9247
608 Lickinghole Rd.

P. O. Box 2120
Ashland, Va. 23005

AMERICAN WOOD CRAFTERS and JOINERS

Millwork — Molding
Special Stair Work

Dial (703) 777-5543

134 East Market Street, Leesburg, Va. 22075



Mallard Pond Townhouses

Virginia Beach

Richard L. Grimstead, AIA—Architect/Engineer

Associated Architect, Julian Sawyer • Structural Engineer, Richard L. Grimstead, AIA • General Contractor, Weigand & Richardson, Inc. • Photography, Julian Sawyer.

Mallard Pond Townhouses, completed in December 1981, consist of 13 two-bedroom townhouses on a 1.1 acre (34% of which is water), wooded wedge-shaped site on Lake Fremac in Virginia Beach.

Maximum density with minimum lot coverage is achieved by allowing the buildings to follow the natural curve of the shoreline, and grouping them asymmetrically to preserve existing trees and to provide communal open space on a small point. Each unit is two-story with all main living spaces oriented toward the lake.

Sliding glass doors connect the living/dining area with a large deck at water's edge. Construction is standard wood framing, clad with stained cedar shiplap siding. Individual heat pump units provide heating and air conditioning.

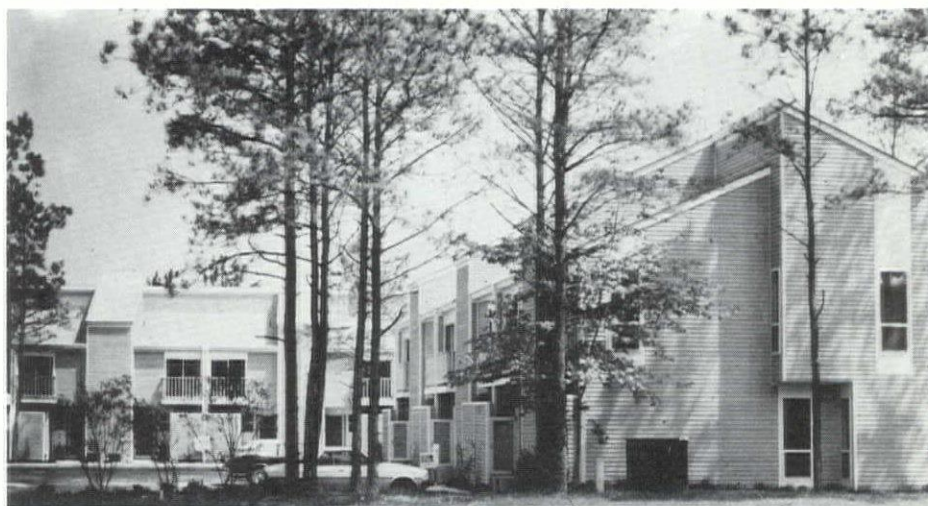
Weigand & Richardson, Inc. of Virginia Beach was general contractor and handled excavating, sodding, seeding, etc., landscaping, foundations, concrete work, carpentry, millwork, waterproofing and caulking. The firm also handled roofing, roof/wall/foundation insulation, glass, windows, gypsum board installation, resilient tile, carpet and painting.

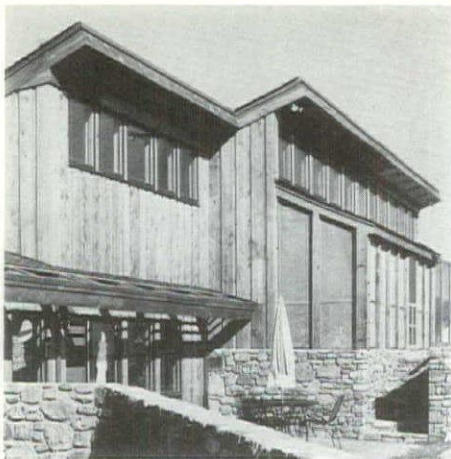
Subcontractors & Suppliers

Other Virginia Beach firms were: Economy Asphalt, Inc., paving contractor; Seaboard Building Supply Co., hardware supplier; Glidden Coating & Resins, paint supplier/manufacturer; Schell Supply Corp., plumbing fixture supplier; and Brown Mechanical Corp., plumbing/heating/ventilating/air conditioning contractor.

Norfolk firms were: Hall-Hodges, Inc., reinforcing; Lone Star Industries, Inc., concrete supplier; Kitchen Towne, Div. of Towne Distributors, Inc., cabinets; Ajax Tile Co., Inc., ceramic tile; and Atlantic Electric Supply, lighting fixtures supplier.

And, from Chesapeake were: Burton Lumber Corp., structural wood & wood doors; and Brooks Electric Co., electrical contractor.



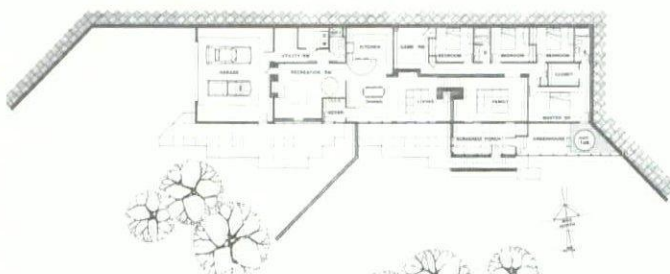


Patterson Residence

Troutville

Byron R. Dickson—Architect/Engineer

Associated Architect, The Energy Conservatory, Ltd./PC • Landscape Architect, Interior Design & Structural Engineer, Byron R. Dickson, Architect • Solar Engineer, The Energy Conservatory, Ltd./PC • General Contractor, J. E. Kidd & Sons, Inc. • Photography, Byron R. Dickson, Architect.



Nestled in the rolling hills of Botetourt County, this passive solar home takes full advantage of an unobstructed panoramic view to the south, resulting in total independence from non-renewable energy sources. This residence integrates all three of the basic passive solar techniques, direct gain, indirect gain and isolated gain, in an efficient open floor plan. Back-up heating will be provided by a wood stove in the living area and a fireplace insert in the recreation room. Two active collectors are also incorporated in the roof for heating of domestic hot water.

In an effort to minimize the required heating loads, the residence is earth sheltered on the north and east sides. By isolating these walls, the exterior surface temperatures are reduced and infiltration is minimized. All windows are double glazed and oriented to the south for maximum heat collection throughout the day. The garage provides a buffer zone to the habitable space from the western prevailing winds. In addition, entrances are provided with draft barrier vestibules. Envelope thermal protection is provided by R-38 ceilings and R-25 wall insulation levels.

Problems of glare have been addressed by bringing sunlight into both sides of the rooms and reflecting it off light colored surfaces. Direct

(Continued on page 34)



Berdeen Residence

Roanoke County

Byron R. Dickson—Architect



UPPER LEVEL



LOWER LEVEL

Associated Architect, The Energy Conservatory, Ltd./PC • Project Manager, Jerome D. Henschel, AIA • Solar Engineer, The Energy Conservatory, Ltd./PC • General Contractor, J. E. Kidd & Sons, Inc. • Photography, Byron R. Dickson, Architect.

Located in southwest Roanoke County, this home is situated near the top-most area of the seven-acre property. The two-story, custom residence produces a comfortable blend of passive solar technology and owner lifestyle. The lower floor is set into the south-facing slope and is earth-sheltered on the north and east sides. The upper floor, which houses the main living areas, is exposed to the sun by expansive south-facing glass and protected by heavily insulated north, east and west walls. Roof and wall insulation levels are R-34 and R-26 respectively.

The owner's strong desire to maintain the view of Mason's Knob to the south, and the tranquil farms and rolling pastures to the west, was satisfied by fully glazing these walls, providing a panoramic vista from all south and west facing rooms.

The total south glazing of 450 square feet, with its 64 tons of interior mass storage, results in an estimated solar savings fraction of 40% against a heating load of 38,500 BTU/DD and an annual 4307 heating degree days. The 2500 square feet of conditioned space utilizes two of the three basic passive solar techniques, direct gain and indirect gain. In addition to the passive system, two active solar collectors are integrated into the roof for heating domestic hot water.

(Continued on page 35)



RICHARD E. LEE ELECTRICAL CONTRACTOR

Commercial—Residential

Phone 703-366-4795

21 Embrook Circle, N.E.
Roanoke, Va. 24012

Birtcherd Dairy, Inc.

Complete Line of Wholesale
Dairy Products
"Sweet Acidophilus" Milk

Phone 622-6501
17th & Monticello Ave.
Norfolk, Virginia

Patterson Residence

(From page 32)

gain thermal storage surfaces are finished with slate, stone or skim coat plaster, over concrete painted warm dark colors.

The total conditioned space of 2700 square feet has a heating load of approximately 22,000 BTU/DD (8.15 BTU/DDSF) in an area producing an annual 4307 heating degree days. The available solar gain, backed up with 200 tons of distributed interior and under floor mass storage, results in a solar savings fraction of an estimated 63%.

Direct Gain Radiation

Direct solar radiation entering through the large amount of south-facing glass is allowed to strike the thermal mass of constructed floors and walls. Some 135 tons of native stone and poured-in-place concrete are strategically placed to absorb heat and release it at times when the temperature begins to decline, such as at night and during cloudy periods.

Indirect Gain Radiation

The recreation room located in the west portion of the house is passively served by indirect collection utilizing a Trombe wall. Ninety square feet of glass and a 6" air space fronts a 12" concrete thermal storage, or Trombe, wall which is painted dark brown to enhance collection.

Besides providing storage for later use, the Trombe wall incorporates high and low interior vents to allow excess heat to be convectively circulated into the room.

An R-10 night insulation curtain installed inside the Trombe air space is automatically operated and controlled by a temperature activated sensor which opens and closes the curtain at preset temperatures in the morning and at dusk.

Isolated Gain

The 760 square foot south-facing greenhouse, situated at the east end of the house, captures the sun throughout the day. The air warmed in this live-in collector is drawn off by an air handler fan and forced into a duct distribution system serving five separate rock bins under the four bedrooms and the family room. The heat is transferred to the rock and is in turn released into the interior space, by means of a radiant slab, during off-collection hours. Having spent its energy, the air is returned to the greenhouse for recirculation.

Passive Cooling

Although heating is of prime concern in this area, the 1030 cooling degree days also deserve a significant amount of attention. Besides employing standard heat gain prevention techniques, such as proper window orientation and louvered overhangs, this house is designed for efficient ventilation during moderate times of the year. In times when ambient exterior temperatures become uncomfortable, another natural method of cooling is engaged. Two open-end earth tubes, each 150' long, draw in outside air to be cooled by the 55-60° below grade soil temperatures. Air, collected through these tubes, is directed to the living space through the same underground ducts used during the heating season. Warm air, exiting through high summer vents, is replaced by the cooled air from the earth tubes. This induction process is similar to the operation of a draft stack such as a chimney.

J. E. Kidd & Sons, Inc. of Hollins was general contractor and handled paving, foundations, carpentry, waterproofing and caulking.

Subcontractors & Suppliers
(Roanoke firms unless noted)

Tony Reed Excavating Co., Vinton, excavating; Dixie Building Products, Inc., reinforcing; Roanoke Ready Mix Concrete Corp., concrete supplier; Hamlin & Bell, Blue Ridge, masonry contractor; Webster Brick Co., Inc., masonry manufacturer; Martin Bros., Rocky Mount, stone-work contractor; Structural Steel Co., Inc., steel supplier; Bolling Steel Co., Salem, miscellaneous metal; Home Lumber Corp., structural wood, millwork, paneling, roofing & roof insulation; and Superior Cabinet Co., Hollins, cabinets.

Also, Karr-Lyle Insulation Contractors, wall insulation; Robertson Sheet Metal Co., sheet metal; Diamond Glass Corp., Salem, glass & glazing contractor; Pella Window & Door Co., windows; Graves-Humphreys, Inc., hardware supplier; Thompson Masonry Contractor, Inc., Salem, plaster contractor & gypsum board contractor; Clifton Floor & Tile Service, Inc., Salem, ceramic tile, resilient tile & carpet; Robert M. Salmon, painting contractor; Benjamin-Moore Co., paint supplier/manufacturer; Russell E. Chittum, Vinton, wall covering; Civic Well & Pump Co., hot tub; Warner Supply Corp., plumbing fixtures supplier; Forbes Plumbing & Heating Co., Inc., plumbing contractor; Williams Supply, Inc., lighting fixtures supplier; and Richard E. Lee, Electrical Contractor, electrical contractor.

Warwick Plumbing & Heating Corp.

Mechanical Contractors

St. Reg. #2411

PLUMBING—HEATING—VENTILATING AIR CONDITIONING & REFRIGERATION

11048 Warwick Road

Phone 599-6111

NEWPORT NEWS, VIRGINIA 23601

LEADBETTER CONSTRUCTION CO.

General Contractor



COMMERCIAL—INDUSTRIAL

I-95 & Lewiston Road Exit
Hanover Industrial Air Park

Dial 798-8301

405-A Air Park Road
ASHLAND, VA. 23005

Leonard Smith Sheet Metal & Roofing, Inc.

Roofing & Sheet Metal Contractors

RESIDENTIAL—COMMERCIAL—INDUSTRIAL

1020 College Ave.

SALEM, VIRGINIA 24153

Phone (703) 389-8614

BOXLEY QUARRIES

CRUSHED LIMESTONE and CRUSHED GRANITE for
ROAD BUILDING • CONCRETE • RAILROAD BALLAST • FURNACE FLUX
FILTER STONE • AGSTONE • LIMESTONE SAND



W. W. BOXLEY & COMPANY

Phone 703/344-6601

711 Boxley Building

ROANOKE, VIRGINIA 24010

Seven Plants Located on N. & W., S. C. L.

Berdeen Residence

(From page 33)

Auxiliary heat is provided through the use of wood stoves in the living and family rooms and electric baseboard heating panels in each of the rooms not having direct gain collection.

Direct Gain Radiation

Direct collection from the sun through south facing glass is coupled with thermal storage tile over concrete floors and interior stone walls. The north rooms are reinforced by direct gain clerestory glass and north wall thermal block painted in warm dark colors.

Indirect Gain Radiation

The 165 square foot Trombe wall, an example of indirect gain, is the major source of solar collection. The storage wall is located at the lower level on the south sides of bedrooms No. 1 and 2. Warm air trapped in the air space between the glass and the concrete mass Trombe wall is drawn off and fan-forced into the plenum space between the first level ceiling and second level floor. Air passing through this plenum loses its heat to the adjacent second level mass floor for storage, and later releases it during non-collection hours. Having spent its energy, the air is returned to the bottom of the Trombe wall to be recirculated in this closed loop system.

In order to increase the efficiency of the Trombe wall, a hinged insulated reflector panel is mounted outside of the glazing. During collection hours the panel is lowered, increasing the collector's effective area by reflecting additional radiation through the glass. During non-collection hours, the panel is raised, sealing off the collector and reducing heat losses back through the glass.

Passive Cooling

While passive heating is of necessity the prime concern in the Roanoke area, the 1030 cooling degree days also deserves a considerable amount of design consideration. Besides employing standard heat gain prevention techniques such as proper orientation and louvered overhangs, this house is designed for maximum ventilation during moderate times of the year. In times when ambient exterior temperatures become uncomfortable, another natural method is engaged. An open-end, 18" diameter earth tube, 100' in length, draws in outside air to be cooled by the 55-60° below-grade soil temperatures. Air collected through this tube is directed to the living space through the floor plenum and side-wall registers. Warm air exiting through high summer vents is replaced by the cooled air from the earth tubes. This induction process is similar to the operation of a draft stack such as a chimney.

J. E. Kidd & Sons, Inc., of Hollins, was general contractor and handled foundations, carpentry, waterproofing and caulking.

The owner handled landscaping.

Subcontractors & Suppliers
(Roanoke firms unless noted)

Tony Reed Excavating Co., Vinton, excavating; Dixie Building Products, Inc., reinforcing; Roanoke Ready Mix Concrete Corp., concrete supplier; Hamlin & Bell, Blue Ridge, masonry contractor; Martin Bros., Rocky Mount, stone-work contractor; Structural Steel Co., Inc., steel supplier/joists & miscellaneous metal; Home Lumber Corp., structural wood, millwork, paneling, roofing & roof insulation; Karr-Lyle Insula-

tion Contractors, wall insulation; and Robertson Sheet Metal Co., sheet metal.

Also, Pella Window & Door Co., windows; Thompson Masonry Contractor, Inc., Salem, plaster contractor & gypsum board contractor; Clifton Floor & Tile Service, Inc., Salem, ceramic tile, resilient tile & carpet; Robert M. Salmon, painting contractor; Benjamin-Moore Co., paint supplier/manufacture; Warner Supply Corp., plumbing fixture supplier; Forbes Plumbing & Heating Co., Inc., plumbing contractor; Williams Supply, Inc., lighting fixtures supplier; and Richard E. Lee, Electrical Contractor, electrical contractor.

James L. Thompson Plaster Contractor

Phone (703) 774-5927

5428 Grandin Road Extension
Salem, Virginia 24153

GLASS & PLASTICS, INC.

Phone (804) 977-5056

631 Dice Street, Charlottesville, Va.

S. B. Cox, Inc.

DEMOLITION CONTRACTORS

Constructive Demolition for 20 Years
INDUSTRIAL—COMMERCIAL—RESIDENTIAL
804-222-2232

St. Reg. #10568

Fully Insured & Bonded

Heavy Equipment Hauling • Storage Van Rentals

5200 Hatcher St.

(P.O. Box 7721)

Richmond, VA 23231

H.T. BOWLING, INC.

Contractor

ST. REG. #9500

Commercial
Industrial



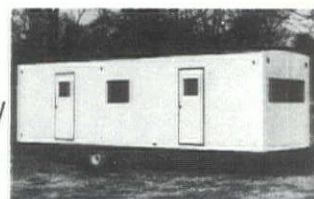
Highway
Public Utilities

EXCAVATING — GRADING — LANDSCAPING — STORM DRAINS
Phone 703-639-9621 Route #2, Radford, Va. 24141



Dodds, Inc.

13050 Jeff Davis Hiway
Chester, Va. 23831
748-2231



Mobile Office & Commercial Buildings
Flexible to meet your needs
Rental-Sales

Landscape Architect, Edward G. Carson and Associates • Mechanical/Electrical Engineer, Walsh Ashe Dills Assoc., Inc. • Structural Engineer, Abiouness, Cross & Bradshaw, Inc. • General Contractor, the Owner • Construction Manager, Walsh Ashe Dills Associates, Inc. • Photography, Michel C. Ashe, AIA.

M. C. Ashe Residence

Virginia Beach

Walsh-Ashe-Dills Assoc., Inc.—Architect/Engineer

Site: Bluff overlooking Thalia Creek, a tidal tributary of the Chesapeake Bay.

Program: Residence for a family of five with a severely limited budget of \$60,000.00

Solution: Plan organization is based on 15' x 10' x 15' grid in both directions. Placing the vertical

circulation in the grid core and utilizing the periphery of the living spaces for circulation creates a very efficient plan minimizing undesirable hall space. The southern elevation allows the living spaces to take advantage of the waterfront view. Future movable sunshades

will shield this glazing from summer overheating. Support spaces are clustered on the northern exposure reducing the glazed area and providing a thermal barrier. Interior partition walls are arranged to channel the site's constant breezes for cross ventilation and the clerestory above the stairs provides a chimney effect maintaining air flow. Structural framing is exposed in the living and dining areas. The joint in the plywood exterior cladding is emphasized to organize the elevations, reflecting interior functions. Total living area is 2,800 square feet.

Cost: \$21.87/square foot including furnishings
Award: American Institute of Architects
Tidewater Virginia Chapter Design Award 1980
Honorable Mention

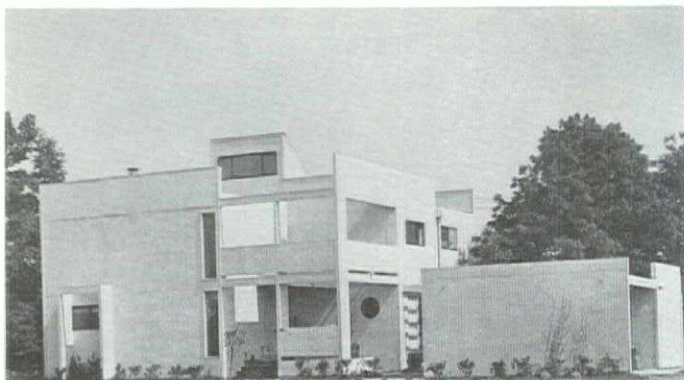
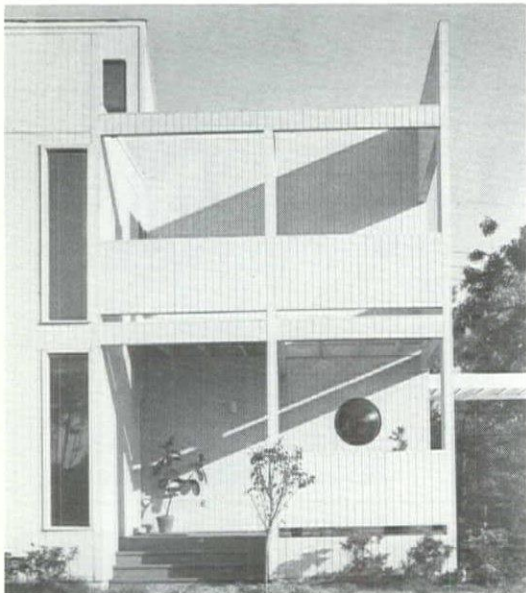
The architect, Walsh-Ashe-Dills Associates, Inc. of Virginia Beach acted as construction manager for the project. The owner acted as general contractor and handled landscaping, landscaping work, and painting.

Subcontractors & Suppliers

(Virginia Beach firms unless noted)

Brian James, sodding, seeding, etc.; Roy Ober, foundations & concrete contractor; Lone Star Industries, Inc., concrete supplier; Roger Cahoon, masonry contractor; Roy Johnson, carpentry; Kempsville Building Materials, Inc., structural wood & wood doors; Stutzman Construction Co., millwork; J. B. Austin, paneling; and Tidewater Kitchen Distributors, Inc., Chesapeake, cabinets.

Also, Roof Engineering Corp., Norfolk, built-up roof; Colonial Insulation, Inc., Norfolk, roof insulation & wall insulation; Walker & Laberge Co., Inc., Norfolk, glass; Norandex Aluminum Building Products, Norfolk, windows; Seaboard Building Supply Co., hardware supplier; Pembroke Dry Wall, Inc., gypsum board contractor; Leroy Miller Tile Co., Chesapeake, ceramic tile; Norfolk Paint Co., Inc., Norfolk, paint supplier (Dupont—interior and Olympic Stain—exterior); Schell Supply Corp., plumbing fixture supplier; Johnnie Williams Plumbing & Heating, plumbing contractor; Brunk Mechanical, heating/ventilating/air conditioning contractor; and Hillegass Lighting Corp., Chesapeake, lighting fixtures supplier.



Mechanical/Electrical Engineer, Walsh Ashe Dills Associates, Inc. • Structural Engineer, Abiouness, Cross & Bradshaw, Inc. • General Contractor, the Owner • Construction Manager & Photography, Walsh Ashe Dills Associates, Inc.

Residence for Mr. & Mrs. Michael I. Ashe

Virginia Beach

Walsh-Ashe-Dills Assoc., Inc.—Architect/Engineer

Site: Sand flats approximately 1,600 feet from the Atlantic Ocean with a buildable area restricted by setbacks to 30' x 30'

Program: Residence providing an ocean view, for two professional people with a limited budget of \$60,000.00.

Solution: Bedrooms and storage spaces are placed on the lower level allowing the living, dining and kitchen areas to occupy the upper level to take maximum advantage of the view. The openness of the living level allows each area to borrow space from those areas around it, creating an illusion of abundant space. The open stair ties the three levels together vertically and organizes the functions of the living level. The east wall is glazed with sliding doors at the living level lending a feeling of outdoor living in summer and taking advantage of the constant ocean breeze. The barrel vault skylight over the dining area adds to the openness of the interior. A deck on the west is a shady outdoor space in the summer and a protected area in winter. The compact island kitchen features a greenhouse enclosed breakfast area and a large pantry. A cruciform loft provides work space and extra sleeping area, and opens to the outside via a small deck. The circular opening in the east wall frames an overview of the ocean. Steel tie rods required by the extreme pitch of the roof were left exposed providing hanging space for kitchenware.

The architect, Walsh-Ashe-Dills Associates, Inc. of Virginia Beach acted as construction manager for the project. The owner acted as general contractor and handled handrails, millwork, paneling, caulking and painting.

Subcontractors & Suppliers

(Virginia Beach firms unless noted)

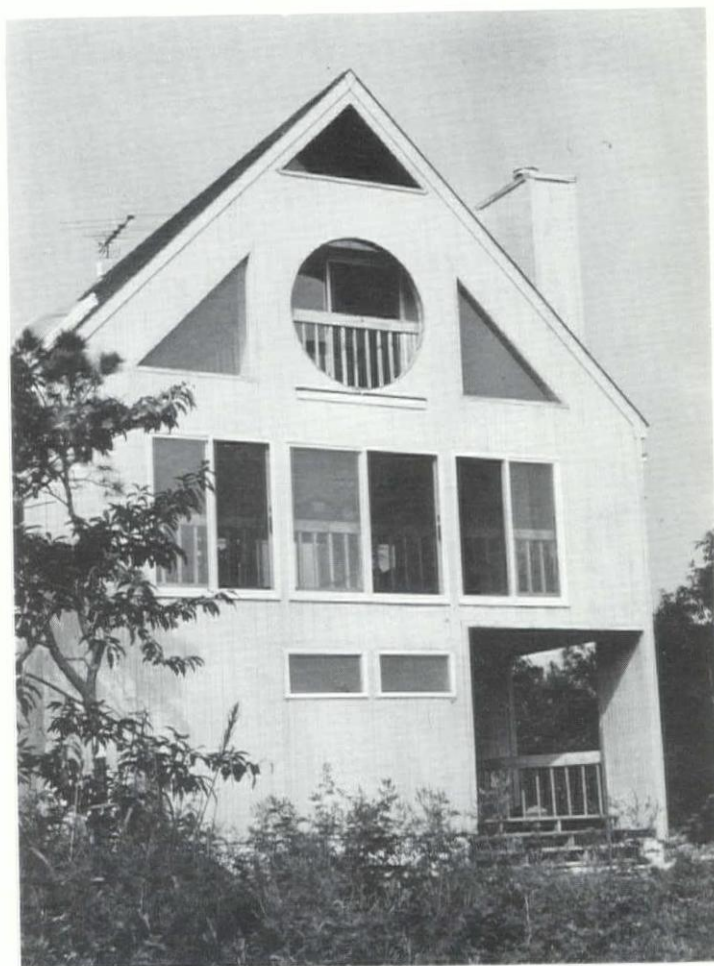
Jim Briggs, landscaping, foundations, concrete contractor & masonry contractor; Lone Star Industries, Inc., concrete supplier, masonry manufacturer/supplier; Batchelder & Collins, Inc., Norfolk, mortar; Greg Stevens, carpentry; Kitchen Towne, Div. of Towne Distributors, Inc., cabinets; and Tom Jones, roofing.

Also, Kempsville Building Materials, Inc., wood doors & paint supplier (Olympic Stain & Sears, Roebuck & Co.); Ayers Insulating &

Supply Co., Inc., roof insulation; Pella Virginia, Inc., Norfolk, windows; Maury Kroll Lock & Safe Service, Norfolk, hardware supplier; Pembroke Dry Wall, Inc., gypsum board contractor; Leroy Miller Tile Co., Chesapeake, ceramic tile; and Dave Muncy, resilient tile & carpet.

And, Schell Supply Corp., plumbing fixture

supplier; J. R. Helton, plumbing contractor; C. L. Carter Heating & Air Conditioning Co., heating/ventilating/air conditioning contractor; Hille-gass Lighting Corp., Chesapeake, lighting fixtures supplier; Norva Plastics, Inc., Norfolk, skylights; and The Fireplace Shop, Hampton, fireplace.



Windows for the
Michael I. Ashe Residence by:

norandex
aluminum
building products

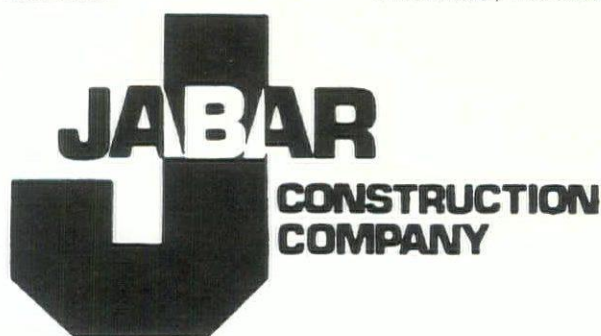
noranda aluminum group

1319 Ingleside Road
Norfolk, Virginia 23502

(804) 857-5377

Phone
231-9631

3204 Hull Street
Richmond, Va. 23224



COMMERCIAL—INDUSTRIAL

FROEHLING & ROBERTSON, INC.
MATERIALS TESTING & INSPECTION — ENGINEERS & CHEMISTS



MAIN OFFICE & LABORATORIES

3015 Dumbarton Rd. — P. O. Box 27524, Richmond, Va. 23261 — Tel. 804-264-2701

BRANCH OFFICES

Asheville, N. C. Fayetteville, N. C. Baltimore, Md. Norfolk, Va.
Charlotte, N. C. Raleigh, N. C. Greenville, S. C. Roanoke, Va.

**H.E.
SATTERWHITE
INC.**

CERAMIC TILE—MARBLE—TERRAZZO
CONTRACTORS Va. St. Reg. No. 6203

Seamless Flooring Products
Selby Battersby

12 S. Lombardy St. • P. O. Box 5404
RICHMOND, VIRGINIA • Phone 359-9261

**HUMPHREY ELECTRIC
CO., INC.**

St. Reg. #17076

COMMERCIAL — INDUSTRIAL
RESIDENTIAL

Phone 804-794-4877

724 Grove Road
Midlothian, Va. 23113

**SCHELL SUPPLY
CORPORATION**

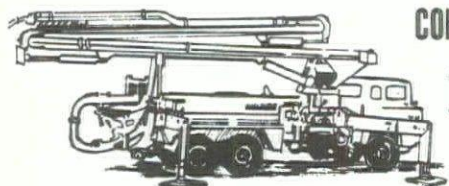
Wholesale Distributors

PLUMBING—HEATING—INDUSTRIAL

Kohler Plumbing Fixtures

P.O. Box 62287
Dial 490-2381 Va. Beach, Va. 23462

NICK ULISSE, INC.
CONCRETE CONTRACTOR
COMMERCIAL — INDUSTRIAL



CONCRETE PUMPING
231-4409

1835 COMMERCE RD.
P.O. BOX 26983 RICHMOND, VA. 23261

**Cochran Construction
Company**

General Contractors



COMMERCIAL INDUSTRIAL
Phone 804-826-2510
701 Industry Drive Hampton, Va.



Fuqua Residence

Williamsburg

Abbott Associates—Architects/Planners

Owner, Dr. and Mrs. William C. Fuqua • Landscape Architect, Abbott Associates • General Contractor, S. M. Nichols, Builder, Inc. • Photography, Carlton Abbott, AIA.

Private Residence:

Dr. and Mrs. William C. Fuqua
Williamsburg, Virginia

Building Type:

Passive Solar, wood frame, cedar siding

Program:

To design an energy conscious house for parents and two teenagers.

Design Solution:

- a compact three story square building
- parents top level
- living middle floor
- teenagers lower level
- passive solar
- closets and utility walls and roof
- central plumbing
- maximum insulation walls and roof
- sloping roof to north

Construction Cost:

\$120,000.00

S. M. Nichols Builder, Inc., of Williamsburg, was general contractor for the project.

The owners, Dr. and Mrs. William C. Fuqua, handled sodding, seeding, etc. and landscaping.

Subcontractors & Suppliers

Williamsburg firms were: Dudley S. Waltrip & Sons, Inc., excavating; Purnell Pressy, foundations & waterproofing; Benson-Phillips Co., Inc., masonry supplier; Dixon, handrails; Sherwin-Williams Co., paint supplier; Langdon Richardson, plumbing contractor; and The Lamplighter Shoppe Ltd., electrical equipment supplier.

From Newport News were: Basic Construction Co., paving contractor; Custom Concrete Products, concrete supplier; W. D. Baxter, carpentry; Weaver Brothers, Inc., millwork; Melvin Peters Cabinet Shop, Inc., cabinets; Davenport Insulation Inc., roof/wall insulation; James Young,

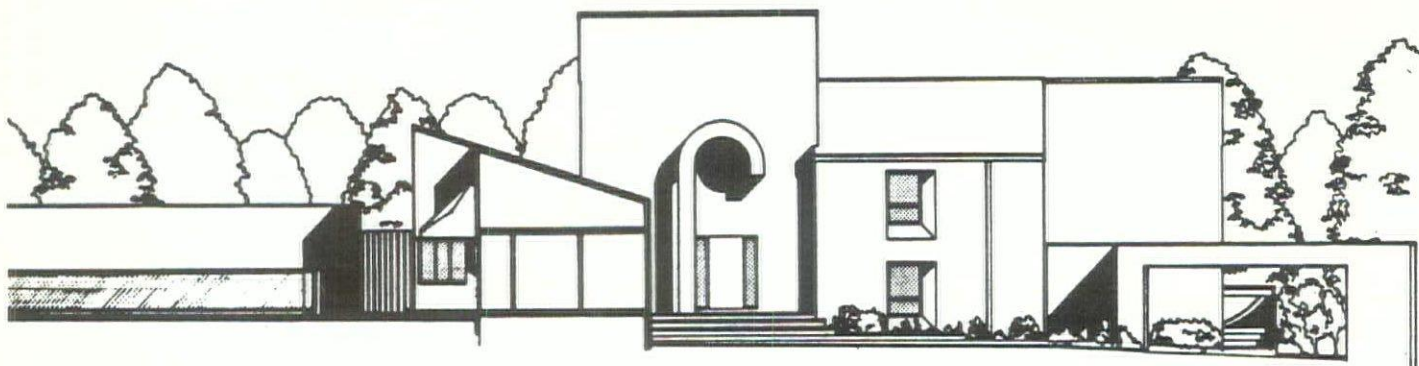
gypsum board contractor; Brunk Tile & Interiors, Inc., ceramic tile; Peebles Supply Corp., plumbing fixture supplier; Rick Thomasson Heating & Air Conditioning, Inc., heating/air conditioning contractor; and Davis Electric, Inc., electrical contractor.

Others were: Richmond Sash/Glass, Richmond, glass & glazing contractor, window wall & storefront; Wilson, Suffolk, masonry contractor; Solite Masonry Units Corp., Chesapeake, masonry manufacturer; Williams, Greensboro, NC, miscellaneous metal; Robert Smith, Barmahville, caulking & painting contractor; Cedar Roofs of Virginia, roofing; Andersen Windows, Bayport, MN, wood doors & windows; Pleasants Hardware, Richmond, Primo, Finland and Stanley hardware supplier; W. C. Carpenter Co., Inc., Virginia Beach, carpet; and Lightolier, lighting fixtures.



to tell the Virginia Story

MAY-JUNE 1982



Schwartzberg Residence

Montgomery County, Maryland

Environmental Design Group, Inc.—Architect

Landscape Architect, Gerald Rupert & Assoc. • Interior Design, Chase Furniture • Mechanical Engineer, Fred Sessions • Electrical Engineer, Peri & Associates • Structural Engineer, Guldin-Fernandez • Plumbing Engineer, Leland D. Eisenhower, Ltd. • General Contractor, Cameo Corporation • Photography, Claude Miller.

This project, a residence for a family of four, is constructed on a two-acre wooded site that is relatively flat as it is entered from the road and slopes steeply into a streambed at the rear.

The program calls for five bedrooms (with special concern given to the privacy of the master bedroom and maid's room) and public spaces which allow for the entertainment of a large number of guests. In addition, both a tennis

court and swimming pool were essential elements of the program.

The design accommodates widely separated sleeping areas for the parents, the two children, and the housekeeper, affording each their private part of the house. The public spaces overlap in a manner that will allow the entertainment of various sized groups.

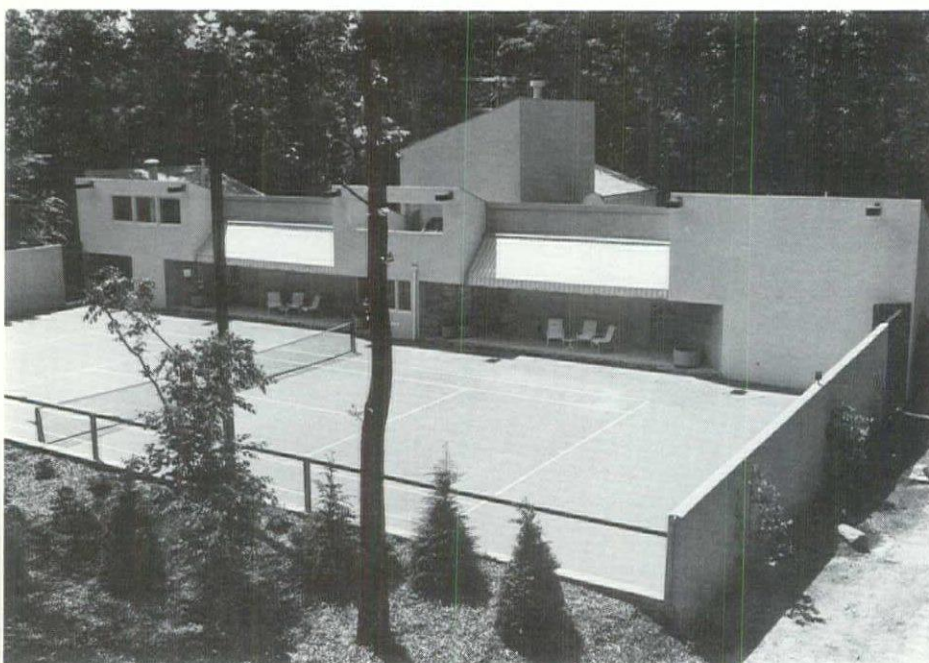
The plan is organized around three courtyards of distinct function, scale and character: the tennis court, entrance court and pool court.

The tennis court is placed in front of the house to minimize required cut, retainage, and disruption of the large hardwood trees growing in the rear of the site. The court is treated as an outdoor room with direct access from the house, and yet is separated from the house by its limited view. The formal facade can be seen from the street and involves repetition of a basic form (each time with some alteration).

The entrance court announces the entry using a public scale. In addition to providing a transition from the automobile, this court is most concerned with conveying the attitudes of the client and his guests toward the symbols of "house," "value," "prestige," etc.

The interior plan focuses on the third, or pool, courtyard. This is the least formal of the three courtyards and steps down the site along with the bedroom wings of the house. Water flows from a fountain in the upper pool down six steps to the lower swimming pool. Low roof lines minimize shade in the pool area. Views from the house are directed into this court and beyond toward the streambed bordering on parklands.

The house is constructed of conventional wood framing with painted gypsum board finish on the interior and "Dryvit" components over





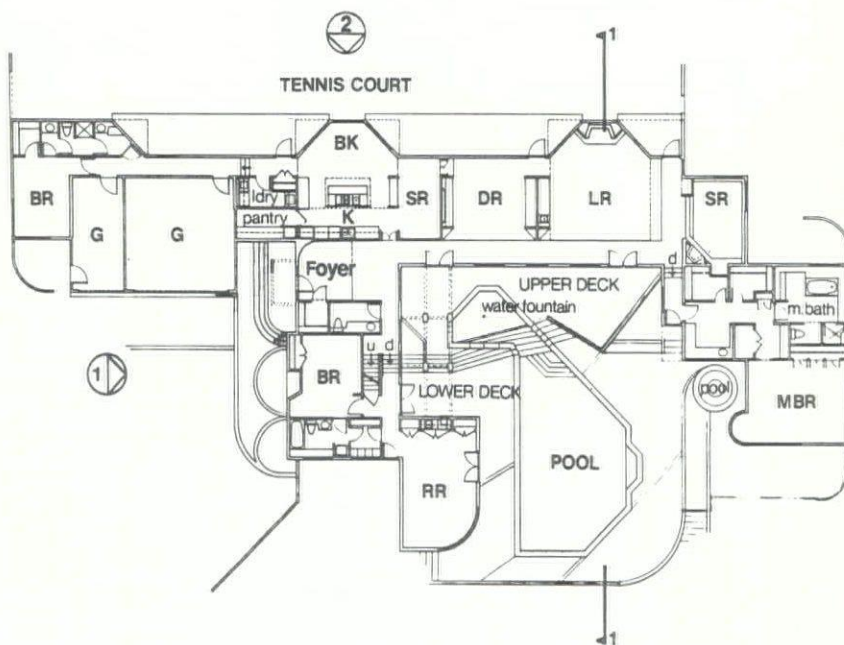
two-inch styrofoam on the exterior. The mechanical system is three-zoned forced air, distributed through a heated, insulated crawl space. Heat and hot water are fueled by natural gas; however, the high roof over the entrance is directed to accommodate future solar collectors for hot water. Typically, lighting is concealed indirect and is designed to highlight exterior views at night. The house is approximately 5900 sq. ft. gross.

Cameo Corporation of Rockville, Maryland was general contractor for the project.

Subcontractors & Suppliers

C. T. Jones Excavating, Silver Spring, MD, excavating; P. Stadler Nursery, Laytonsville, MD, landscaping; Eastern Concrete, Landover, MD, concrete contractor; Cliff Reckley, Frederick, MD, carpentry; Bevin & Co., Rockville, MD, millwork; Creative Kitchens, Silver Spring, MD, cabinets; Roof Center by Cliff, Rockville, MD, tile roofing; Universal Insulation, Lanham, MD, roof/wall/foundation insulation; Devlin Lumber & Supply Corp., Rockville, MD, wood doors & gypsum board contractor; Associated Building Components Co., Inc., Landover, MD, windows; and Union Hardware Co., Bethesda, MD, hardware supplier.

Also, Frank DiNenna—Macon Tiles, Rockville, MD, ceramic tile; M & M Floors, Inc., Falls Church, special wood flooring; McCormick Paint Works Co., Rockville, MD, paint supplier; Dave Jordan, Gaithersburg, MD, painting contractor; Paddock Pool Construction Co., Inc., Arlington, swimming pool; J. George, Silver Spring, MD, plumbing contractor; Fred Sessions, Silver Spring, MD, heating/ventilating/air conditioning contractor; R. Archie Burgess, Washington, DC, electrical contractor; and, Exterior Coating, Alexandria, Dryvit contractor.



FIRST FLOOR PLAN

MAY-JUNE 1982

Mechanical Engineer, Paul A. Sweet, AIA, PE • General Contractor, Soltec, Inc.

January Hill Addition, Charlottesville William D. Prillaman, AIA—Architect

The owners of January Hill were very happy with the location of their existing house, with its outstanding views of the Blue Ridge mountains, but had outgrown the one-level structure.

The original house was a ranch-style, cinder block house with little architectural distinction. The house was situated on a knoll, which made linear expansion impractical. In order to take full advantage of the superb views, the existing "U" was infilled with a three-level addition. Two thousand square feet were added to the existing 1500 square feet.

The north (front) yard sloped away from the existing footprint, allowing the lower level to be dropped half a story and still have an on-grade entry. A curved retaining wall was added to compensate for the grade changes. This leads one into the soapstone foyer. The lower level contains a large utility room, guest bath, and soundproof studio for the owners' musical interests.

The utility room has a separate entry and, adjacent is a wood storage shed which houses the primary fuel source for the new five-fuel

boiler. The new heating plant was hooked up to the existing radiator system as well as the new baseboard system. In addition to wood, the boiler can be fired by gas, oil, coal or electricity.

The former main level was upgraded with new wall surfacing and oak flooring. A section of the gable roof and ceiling was removed to achieve a spatial continuity with the new second level.

Kitchen/dining and lounge areas are open to each other visually, but maintain their separateness by use of lighting and varying ceiling heights. The lounge has a skylit cathedral ceiling which is 18 feet high at the peak. The kitchen is fitted entirely with handmade heart pine cabinetry. The superb craftsmanship is readily apparent, particularly in the difficult curved section which separates the kitchen/dining area. Re-milled antique heart pine flooring is used throughout the second level and stairways.

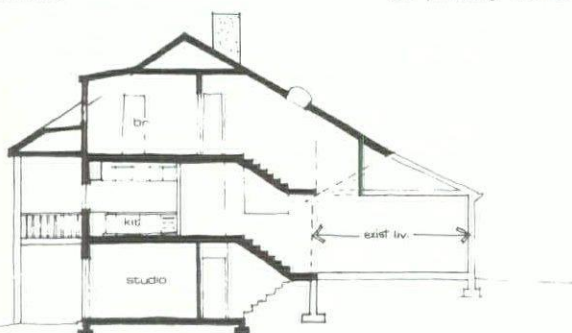
The upper floor contains two bedrooms, oriented to the mountain views. The larger bedroom opens to the lounge below by means of a casement window. The shared bath also has an operable window to below; an antique stained glass panel set in a wood frame; and an operable skylight.

The exterior appearance was modified by extending the gable lines of the former wings to meet the new infill addition. The entire exterior is covered in an insulated board with a stucco-like finish. The large deck across the front of the house doubles as the owners' dining area in good weather.

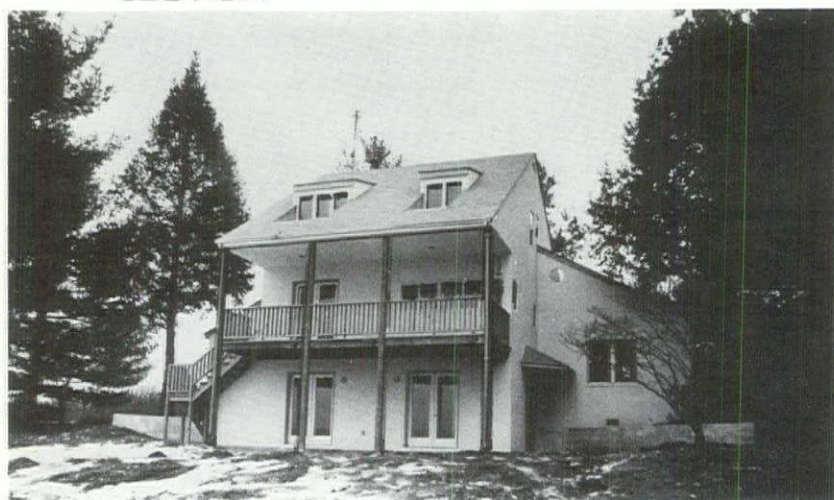
Soltec, Inc. of Charlottesville was general contractor for the project.

Subcontractors & Suppliers
(Charlottesville firms unless noted)

Shifflett & Wyant Construction Co., Quinque, excavating; Williams Construction Co., Earlysville, masonry contractor; James Shifflett, floor sanding; Gaston, Murray & Wyatt, Inc., cabinetry; Joseph Knott—Roofing Specialist, roofing; Virginia Insulation Corp., Dryvit insulation; Troxell Drywall Co., drywall contractor; Carter & Smith Tile Co., tile; Tom Shuman, painting contractor; Brunk Trane, plumbing/heating contractor; and Dan Massie, electrical contractor.



SECTION



Landscape Architect, C. Preston Dalrymple • General Contractor, Heindl-Evans, Inc. • Photography, G. Warren Vaughan, AIA.

Queen Anne's Cove Harbor Houses

Phase I, Urbanna

G. Warren Vaughan, AIA, Architecture

Owner's Program: A vacation/retirement townhouse community overlooking the Rapahannock River and Urbanna Creek.

Site Considerations: A master plan organized the units into clusters around parking courts, while taking advantage of the view and the natural terrain.

Design Considerations: The townhouse unit plans provide maximum flexibility through the use of full basements in some units (including each unit in Phase I), with a wood deck at the basement level and the first floor at the rear of each unit.

Energy Considerations: Insulated windows and skylights, heat pumps, and heat-circulating fireplaces in each unit provide energy efficiency for each resident.

Materials: Gray-stained cedar siding with white trim provides a nautical appearance which is appropriate to the waterfront location.

Brooks & Elliott, Inc. of Tappahannock was general contractor for this Phase of the project.

Subcontractors & Suppliers

Other Tappahannock firms were: Essex Concrete Corp., concrete supplier; Harold Smith, gypsum board contractor; Kimsey's Floor Covering & Home Center, resilient tile & carpet; and Barton & Fleet, Inc., plumbing/heating/ventilating/air conditioning/electrical contractor.

From Richmond were: Richmond Block, Inc., masonry supplier; Binswanger Glass Co., millwork & windows; Hermitage Roofing & Heating Co., Inc., built-up roof; G. E. Contractor Sales, kitchen electrical equipment supplier; and Dodson Bros. Exterminating Co., Inc., termite protection.

Others were: Ewell Farm Nurseries, Williamsburg, landscaping; Redmond Masonry, Heathsville, masonry contractor; Lipscomb Bros. Lumber & Home Center, Mechanicsville, cabinets; Adams Painting Corp., Quinton, painting contractor; and Hutter Corp., Lynchburg, sliding glass doors.



to tell the Virginia Story

MAY-JUNE 1982

Joseph Knott—Roofing Specialist

Fiberglass—Cedar Shakes Shingle
Standard Seamed Metal Roofing &
Re-metal Built-in Guttering

Phone 804-973-4785

220 Barnsvale Rd.
Charlottesville, VA 22901

Candlelit Interiors

ACCESSORIES, GIFTS, INTERIORS FOR
DISCRIMINATING TASTES

PHONE: (804) 358-1664

OPEN: MONDAY - FRIDAY, 11-5

SATURDAY - BY APPOINTMENT

3538 W. CARY STREET

RICHMOND, VIRGINIA 23221

(IN THE RICHMOND SHOPPING CENTER)

W. C. POWELL

General Contractor — St. Reg. #9727

Residential

Phone 293-3980—Route 1, Box 90—North Garden, Va. 22959

Ward's Volkswagen, Incorporated

Phone 276-1150

7528 Midlothian Pike
Richmond, Va.

P. C. GOODLOE & SON

St. Reg. #11372

EXCAVATING & ROAD BUILDING

Phone 703-373-5863

1112 Kings Highway

Fredericksburg, Va.

The Fireplace Shop

Complete Line of
Wood Stoves & Fireplaces
Sales & Installation

Over 50 Models on Display

Free Area Delivery

Dial 838-4791

3515 Kecoughtan Rd.
Hampton, Virginia

CHARLOTTESVILLE AQUATICS

BUILDERS OF
SPARTAN VINYL LINED AND CUSTOM CONCRETE POOLS
SALES AND INSTALLATIONS
OF
FINE HOT WATER AND SAUNA EQUIPMENT
FOR RESIDENTIAL AND COMMERCIAL
APPLICATIONS

MEMBER



3041 COLONIAL DRIVE
CHARLOTTESVILLE, VA.
973-7433



HYDRAULIC SERVICE

COMPANY, INC.

Pumps — Motors — Cylinders — Gauges
Filters — High Pressure Hose & Fittings
Vee Packings — Cups — O'Rings
Valves — Pressure Regulators

Distributor for

BORG-WARNER PUMPS & VALVES

Dial 487-2513

3104 Victory Blvd.
Portsmouth, Va.

MOUNTAIN LUMBER

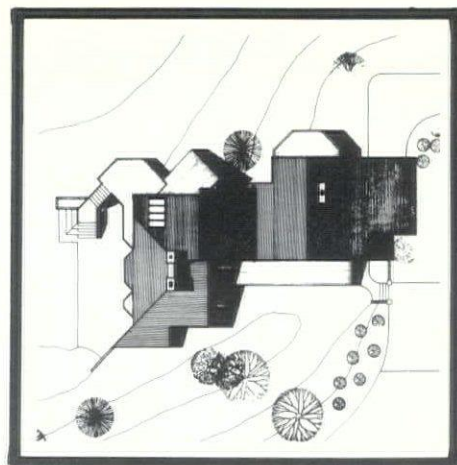
Specializing in

RANDOM WIDTH & WIDE PLANK VIRGIN LONGLEAF HEART PINE FLOORING

Wormy Chestnut & South American Wormy Mahogany Paneling
Rough sawn & hand-hewn beams
Custom-made cabinets, doors trim & mouldings

All Wood Kiln Dried • Finest Quality Millwork Available

MOUNTAIN LUMBER COMPANY
1327 CARLTON AVENUE, P.O. BOX 285, CHARLOTTESVILLE, VA. 22902
TELEPHONE: (804) 295-1922



Private Residence

Albemarle County

Browne, Eichman & Dalglish, P.C.—Architect

Partner-in-Charge, John D. Dalglish Jr., AIA • W. Douglas Gilpin Jr., AIA • Mechanical/Electrical Engineer, Paul A. Sweet, P.E. • General Contractor, W. C. Powell.

This project's program requirements were rather unique and challenging. The owners operate an antique and exotic wood sales office, serving the east coast and various foreign countries, hence, the house should highlight their trade. They requested an open plan for living areas, but with separate bedrooms and play areas for children. Furthermore, the house was to contain a small, but efficient, living area for the wife's mother, who would use the house as a vacation retreat.

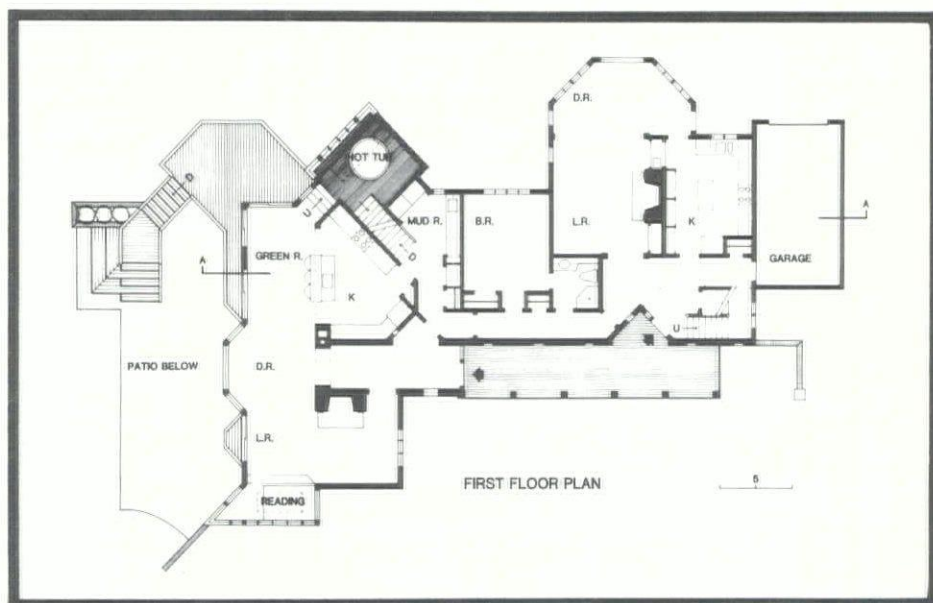
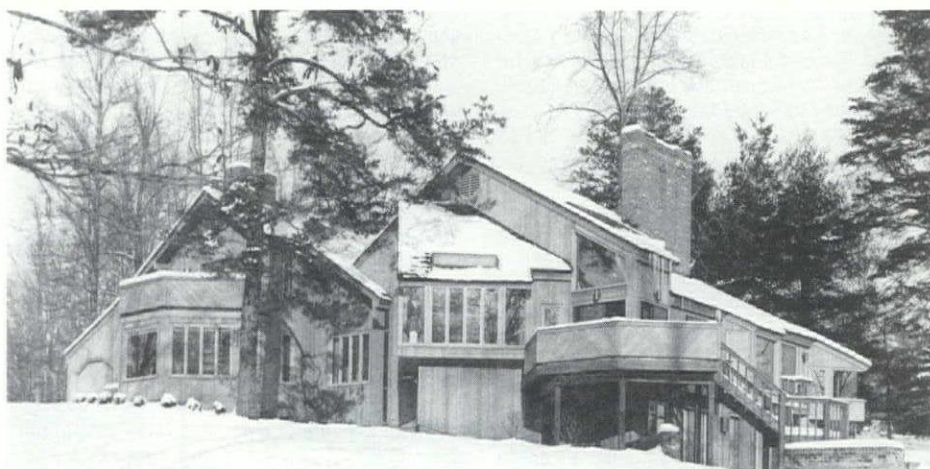
The first floor is split into the two units, sharing a common guestroom and laundry facility. The master bedroom for each unit is located above its respective living area; the children's rooms are located on a lower level, with direct access to the exterior. As a focal point to the main level, a teak lined sunlit hot tub has been located on the stair landing below the owner's bedroom.

Major interior finish materials include: Antique wide plank heart pine flooring; heart pine, wormy mahogany and wormy chestnut paneling, and salvaged hand moulded brick. Architectural accents include: custom copper lighting fixtures; salvaged turned wood columns from an old warehouse; heart pine beams and custom milled mantels, trim and cabinets. The exterior is vertically applied fir siding, oversize brick chimneys and a handsplit cedar shake roof.

W. C. Powell of North Garden was general contractor for the project.

Subcontractors & Suppliers
(All Charlottesville firms)

Ivy Nursery, Inc., landscaping; M. C. Yates, masonry contractor; Mountain Lumber Co., Inc., exotic wood; Gaston, Murray & Wyatt, Inc., cabinetry & special millwork; W. A. Lynch Roofing Co., Inc., roofing; Glass & Plastics, Inc., skylights; Charlottesville Aquatics, specialties—hot tub; T. D. Payne Plumbing & Heating, Inc., plumbing contractor; Ray Fisher & Ron Martin, Inc., mechanical contractor; and Joseph Birckhead, electrical contractor.



Project Architect, Robert F. Neuman • General Contractor and Developer, Rosenkranz, Inc. • Photography, William R. Fletcher.

Residence at Bellwood

Montgomery County, Maryland

Daniels-Harrelle-Neuman Associates, Ltd.—Architect

Bellwood is a small subdivision of eight custom designed homes located inside the beltway in Montgomery County, Maryland. The heavily wooded site was developed from a larger estate and the original house was remodeled. Part of the site was set aside for a swimming pool and two tennis courts for use by the eight homeowners. The developers built three homes for themselves, developed this lot for speculation, and sold the remaining lots.

The major design criteria of the house are as follows:

1. Contemporary design with ease of maintenance.
2. Compatibility with the designs of the other houses, while utilizing interesting forms.
3. Preservation of as many trees as possible.
4. Design suitable for an older couple with grown children.

The site area is 28,823 square feet, it is heavily wooded and slopes down slightly from front to rear. The garage and utility areas are located on the northwest corner of the site to shield the

house from the winter winds. Trees were preserved around the house to shield it from the summer sun, yet allowing for winter solar gain.

The living room, dining room, kitchen, den, and a large master bedroom suite are all located on the first floor. This arrangement provides for separation from the children's bedrooms and for individual zone controls of the heating and air conditioning systems. The site slope allows for a walk-out basement recreation room. The living room, dining room, den, and master bedroom are oriented toward the private side of the site and are connected on the exterior, to a patio and wood deck, by sliding glass doors. This floor plan provides for the flexibility of indoor-outdoor living and entertaining. The separate dining room allows for formal entertaining. A number of skylights and clerestory windows permit light to enter into the foyer, living room, dining room, and stairway and provide views of the surrounding landscape.

The exterior is vertical stained redwood siding with asphalt shingles and built-up roofing. The interior floors are either hardwood, carpeted, or quarry tile with painted gypsum board walls and ceilings.

This house has 5,170 square feet of finished area and 1,155 square feet of garage and unfinished areas. The construction cost was around \$275,000.

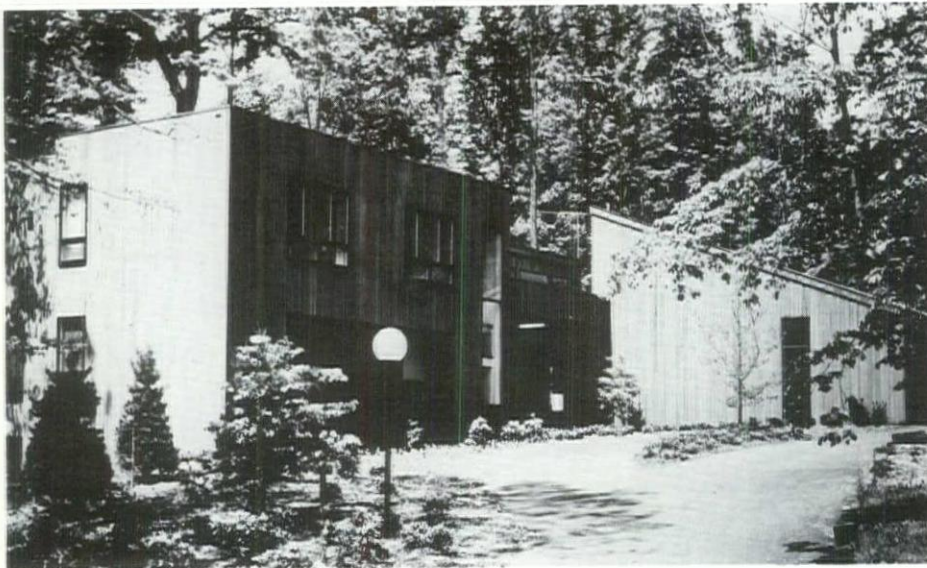
Rosenkranz, Inc. of Bethesda, Maryland was general contractor and developer for the project.

Subcontractors & Suppliers

Other Maryland firms were: Jefferson & Bucheimer, Inc., Rockville, excavating; Tevy Schlafman, Bethesda, landscaping; Rockville Fuel & Feed, Rockville, concrete supplier; J & R Carpentry, Laurel, carpentry; Greenwald Roofing, Hyattsville, built-up roof; McCormick Paint Works Co., Rockville, paint supplier; Robert T. Higgins, Upper Marlboro, plumbing fixture supplier; and Bruno Electric, Prince George County, electrical contractor.

And, from Virginia were: Springfield Concrete Construction Co., Inc., Springfield, paving contractor; LaRowe Masonry, Nokesville, masonry contractor; Murphy & Ames, Inc., Arlington, millwork; Miller Building Supplies, Bailey's Crossroads, cabinets; Hop's Drywall Service, Inc., Front Royal, gypsum board contractor; Larkin Tile Co., Nokesville, ceramic tile; and Getson Heating & Air Conditioning, Inc., Herndon, plumbing contractor.

Painting contractor was Elwood Mathews and windows were by Caradco Corp.





Powers Residence

Williamsburg

Abbott Associates—Architects/Planners

Landscape Architect, Abbott Associates • General Contractor, J. B. Violette Construction Co. • Photography, Carlton Abbott, AIA.

Private Residence

Mr. and Mrs. Thomas P. Power
Williamsburg, Virginia

Completion Date: November 1979

Building Type: Private residence for family with three teenage children.

Owner's Program: To design a private residence for an active family. The house should allow for both parents and teenagers to entertain separately.

Design Solution: The house is composed of two rectangular volumes. The larger volume or "main house" contains family living areas. The smaller volume functions as a recreational space for the children (in future years to be used as a guest house). The outdoor living spaces are created by the rotation of rectangular volumes.

Construction Cost: \$107,000

Materials: Wood frame construction

Exterior siding—1" X 6" western wood siding

Interior finish—T & G cedar boards, drywall

J. B. Violette Construction Co. of Williamsburg was general contractor and handled painting. The architect handled masonry manufacture/supply and carpeting.

Subcontractors & Suppliers

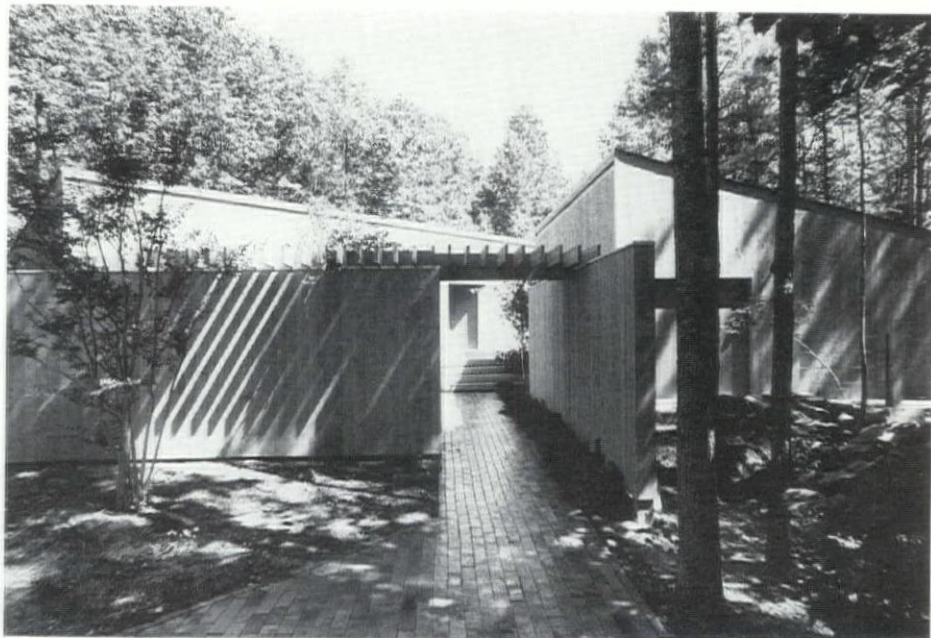
(Newport News firms unless noted)

Liston W. Sweat, excavating; Geo. D. Harris & Son, Inc., landscaping; F. W. Emerson, foundations, concrete contractor, reinforcing, masonry contractor and foundation insulation; Benson-Phillips Co., Inc., Williamsburg, concrete supplier; Globe Iron Construction Co., Inc., Norfolk, miscellaneous metal; K. F. Somervold, carpenter,

try, caulking, roofing, metal doors & frames and wood doors; and Powell McClellan Lumber Co., Inc., Norfolk, structural wood, millwork & paneling.

Also, Country Kitchens, Smithfield, cabinets; Davenport Insulation, Inc., wall insulation; L. C. Heath Roofing, Inc., sheet metal; Binswanger Glass Co., glass & glazing contractor; Pleasants Hardware, Richmond, hardware supplier; Reynolds Drywall, Williamsburg, gypsum board

contractor Tile Shop, Hampton, ceramic tile & resilient tile; Smith Bros. Enterprises, Inc., Hampton, special flooring; Betty Buy Builders Supply, Inc., Williamsburg, paint supplier (Olympic); Peebles Supply Corp., plumbing fixture supplier; Perfection Plumbing Heating & Air Conditioning, plumbing/heating/ventilating/air conditioning contractor; Noland Co., lighting fixtures/electrical equipment supplier; and A/C Electric Contractors, Inc., electrical contractor.



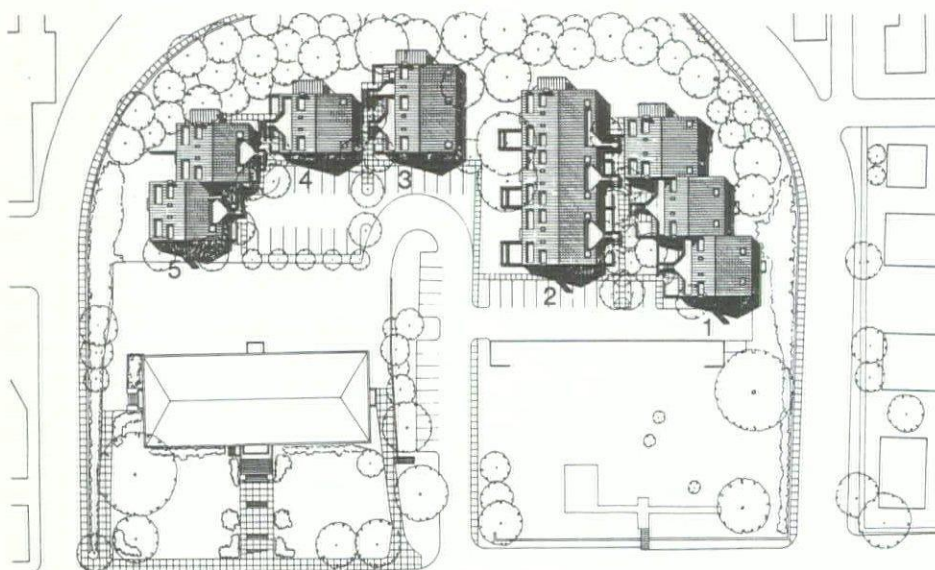



McGuffey Hill Housing

Charlottesville

Smith, Armstrong, Landow Architects, Inc.—Architect

Landscape Architect, Smith, Armstrong, Landow •
Structural Engineer, Dunbar, Milby, Williams • Gen-
eral Contractor, Richard J. Funk, Builder, Inc. • Pho-
tography, Carl Landow.

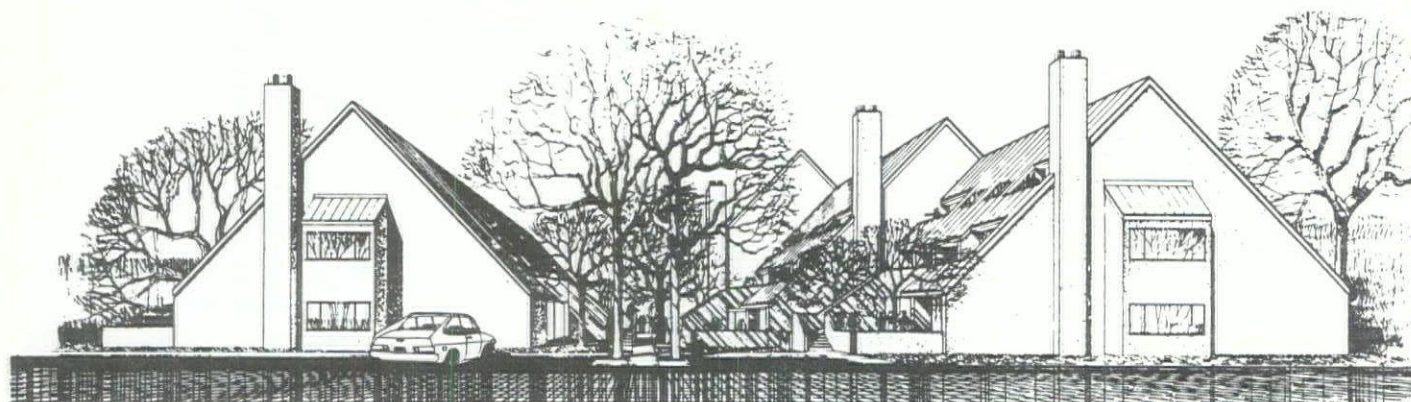


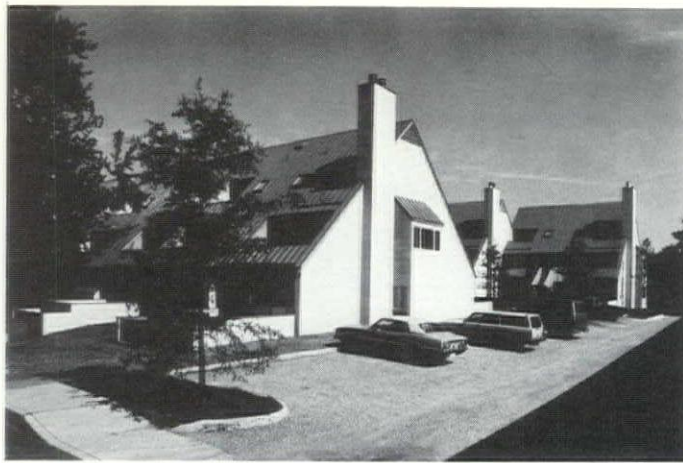
 SITE PLAN
1" = 20'

The site for McGuffey Hill Housing is located in downtown Charlottesville, adjacent to the Historic District and the Main Street Mall. It is bounded on the east by a small park playground and on the southeast by the McGuffey Art Center, an old three-story brick school building now leased by the city to local artists. The hillside site, thick with vegetation on steep slopes, is high above a major intersection and offers splendid views of the surrounding mountains. These condominium residences are within walking distance of Charlottesville's shopping, business, governmental and recreation facilities and are served by city water and sewer facilities.

The 38 residences are located in five separate buildings uniquely designed to fit the special requirements of this site. Each residence includes private balconies, decks or courtyards and is equipped with range, refrigerator, dishwasher and garbage disposal. Heating and air conditioning are provided with energy efficient heat pumps. Major glass areas and balconies are oriented to the south for thermal efficiency.

The deck which shelters parking provides additional playground space and visually separates the residential from the playground area.





There are four residential prototypes:

The Studio consists of a living-dining area, kitchen, bath and one or two bedrooms on one floor.

The Terrace is a large one-floor residence consisting of a living room, separate dining or family room, kitchen, hobby room, two large bedrooms and two baths.

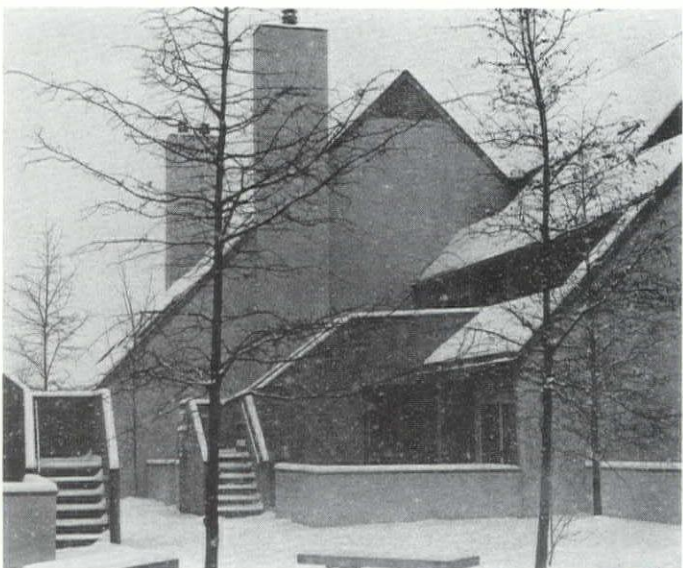
The Townhouse is a three-story residence with a kitchen, dining room, living room and bath on the first floor, two bedrooms and a bath on the second floor and another bedroom and bath on the third.

The Penthouse, located above studio and terrace residences, consists of a living-dining area, bedroom, large kitchen and bath on the main floor with an additional bedroom and bath on the second floor.

The design is responsive to the complex topography on a center city site which is an important visual focus of the downtown area, the adjacency of a neighborhood playground and community arts center, limited access and the protection of a variety of beautiful trees.

The buildings are given character through the palette of material, a combination of silhouettes, scale, color and landscaping which blend harmoniously with the surrounding neighborhood.

Richard J. Funk, Builder, Inc. of Charlottesville is general contractor and handled, sodding, seeding, etc., carpentry and caulking.



Subcontractors & Suppliers

(Charlottesville firms unless noted)

Haley, Chisholm & Morris, Inc., excavating & paving contractor; Instant Shade, Inc., landscaping & landscaping contractor; H. T. Ferron Co., foundations & concrete contractor; Allied Concrete Co., foundations, reinforcing, concrete supplier; prestressed concrete, masonry supplier & mortar; Better Living, Inc., handrails, millwork, foundation insulation, metal doors & frames, wood doors, windows & paint supplier; Trus Joist Co., Inc., structural wood; Hall Brothers, Inc., cabinets; and E. M. Martin, Inc., waterproofing, roofing & sheet metal.

Also, Virginia Insulation Corp., roof insulation & wall insulation; Charlottesville Glass & Mirror Corp. and Virginia Glass Co., Inc., glass & glazing contractors; Martin Hardware Co., hardware supplier; Frank E. Ware, Plastering & Drywall Contractor, gypsum board contractor; Richard A. Oliva & Sons, Inc., ceramic tile; The Ceiling and Floor Shop, resilient tile & carpet; and D. W. Foster, Inc., painting contractor.

Others were: Sears, Roebuck and Co., Inc., specialties—residential appliances; Maddux Supply Co., plumbing fixture supplier; W. E. Brown, Inc., plumbing contractor; Ray Fisher & Ron Martin, Inc., heating/ventilating/air conditioning/electrical contractor & electrical equipment supplier; Interstate Electric Supply Co., Inc., lighting fixtures supplier; Manson & Utley, Inc., contractor for cement plastic composition on rigid insulation; and Southwestern Lightweight Concrete, Inc., lightweight concrete supplier.

THE CEILING and FLOOR SHOP

Acoustical Ceiling & Floor Covering Contractors



Acoustical Ceilings
Vinyl Floors
Carpeting
Ceramic Tile
Partition Systems

296-8491 — Phones — 296-6849
105 N. First St., Charlottesville, Va.

HAROLD L. KEETON

RESIDENTIAL & COMMERCIAL
CONTRACTOR

ST. REG. 4790

PHONE
748-5243

MANAKIN-SABOT
VIRGINIA 23103

D. A. Hitt Electric

St. Reg. #11215

Commercial—Industrial

Phone 703-241-7877

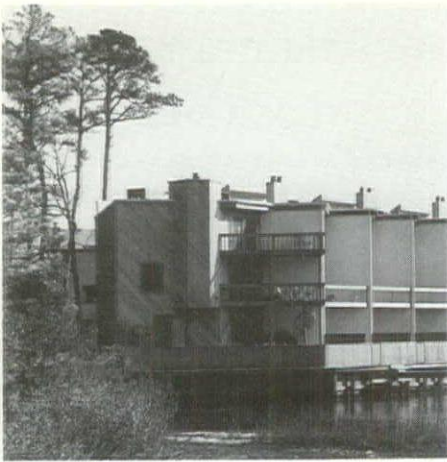
132 W. Jefferson St.
Falls Church, VA 22046

Richard J. Funk Builder, Inc.

General Contractor

Dial 979-7118

666 Kearsarge Circle
Charlottesville, Va. 22901



Rudee Inlet Condominiums

Virginia Beach

The Design Collaborative—Architect

There is a tiny building on the shores of the main canal in Amsterdam which is always pointed out to tourists taking the water-bus tour as the Narrowest House In The World. It is three feet wide and three stories high, just sitting there on the water between two mansions. One imagines it might have been just a passageway at one time and now is a unique living quarters for someone, probably a very thin person.

Seeing it raises the question of how narrowly a house can be designed for adequately comfortable living. One answer might be: See the Rudee Inlet Condominiums on Terrace Avenue. They are 16 feet wide, just the width of a medium-sized room, and three stories high. Ten units of this size (1,500 square feet) are situated between two end units of larger dimensions. Located on the water, each has its own private boat dock, balconies facing the water and a south orientation for passive solar energy efficiency.

Rudee Inlet is a study in high-density living, which is one of the coming trends for future building as land costs become a primary concern. The size of the entire site is .48 acres, yielding a theoretical density ratio of 25 units to the acre, which is more than twice the usual density ratio for a townhouse project.

Each condominium has its own private backyard, fenced in cedar planks to match the cedar siding of the home's exterior. The first floor is comprised of a den, garage and hallway leading to the boatdock out back. The second floor contains the living/dining area, kitchen and a half bath. The third floor has two bedrooms and two baths. So they are ideally suited for one or two persons to live quite comfortably and economically together with all the allurements of passive solar living on the water.

Special features include a spiral stairway from the first to the second floor, fireplaces in the living rooms, an eight-inch masonry block firewall between each unit for sound proofing and for storing the solar heat. Tenants say their utility bills are pleasingly low.

Almond Construction Co. of Virginia Beach was general contractor and handled carpentry and painting.

Subcontractors & Suppliers

Other Virginia Beach firms were: Welch Pile-driving Corp., piling; Leon Kight, built-up roof & roof insulation; Moore's Building Supplies, windows & fireplaces; Kellam & Eaton, Inc., hardware supplier & spiral stairs; Pembroke Dry Wall, Inc., plaster contractor & gypsum board contractor; Ornamental Tile, Inc., ceramic tile; Norfolk Paint Co., Inc., paint supplier; Princess Anne Plumbing & Electrical Suppliers, Inc., plumbing contractor; Classic Air Care, Inc., heating/ventilating/air conditioning contractor; Residential Electric, Inc., electrical contractor; and McIlwain's Appliance Service, Whirlpool kitchen appliances.

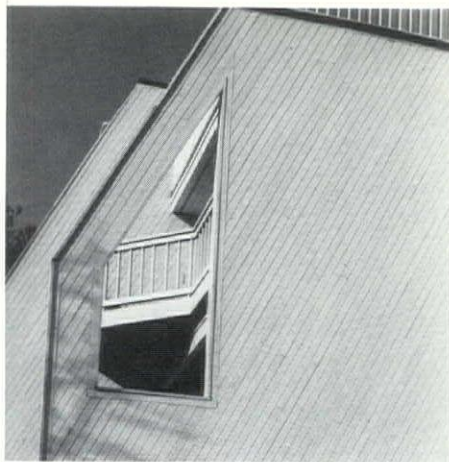
Norfolk firms were: Hall Hodges Co., Inc., reinforcing; Lone Star Industries, Inc., concrete

Structural Engineer, Stroud, Pence & Associates • Civil Engineer, Engineering Services, Inc. of Virginia Beach • General Contractor, Almond Construction Company • Photography, Laszlo Aranyi, AIA.

supplier, masonry manufacturer/supplier & mortar; Dan Henson Masonry, masonry contractor; Addington-Beaman Lumber Co., Inc., millwork & wood doors; Kitchen Towne Div. of Towne Distributors, Inc., cabinets; Ayers Insulating & Supply Co., Inc., wall insulation; Dixie D., Inc., carpet; and M. A. B. Paints, paint supplier.

And, from Chesapeake were: Greenbrier Farms Landscaping, Inc., sodding, seeding, etc. & landscaping; John P. Wright Construction Co., foundation & concrete contractor; and Hillegass Lighting Corp., lighting fixtures supplier.





Salasky-Sedel Duplex

Virginia Beach

The Design Collaborative—Architect

Owner/General Contractor, Salasky-Sedel, Inc. •
Photography, Laszlo Aranyi, AIA.

Two professional builders in Virginia Beach, Arnold Salasky and Jon Sedel, retained The Design Collaborative to design their bachelor duplex in an established residential section near the beach. They asked for the amenities of gracious living as well as the cost-effective energy-saving features of passive solar design.

The site is a large corner lot with southern and eastern exposure. The clients wanted a beach house deluxe, a place to entertain friends and clients with a leitmotif of sand-sea-and-sky running through the design. Juniper wood siding set at an angle, stained with weatherproof-

ing oil stain, is the color of pale, golden sand. Sea green colors the front door and iron stairways on the balconies. Interiors are soft white with sand colored hardwood floors. Handrails on the stairs of natural oak, antiqued in white with sea green reveals, provide eye appeal.

The house takes advantage of the sun's energy, beginning with the enclosed roof decks with their built-in banquettes of sand-colored juniper planks. The sundeck has a breathtaking view of the Atlantic Ocean and is perfect for summer evening social gatherings, intimate starlight dinners or a retreat into breezy seclusion, ocean-gazing and relaxation. Peering down from the top of three stories, the tops of the pine trees form an inland sea of green just a few feet from the boundaries of Seashore State

Park, a bird and wildlife sanctuary. The lot is landscaped with clusters of pilings and driftwood logs, set among the shrubs and pine needles.

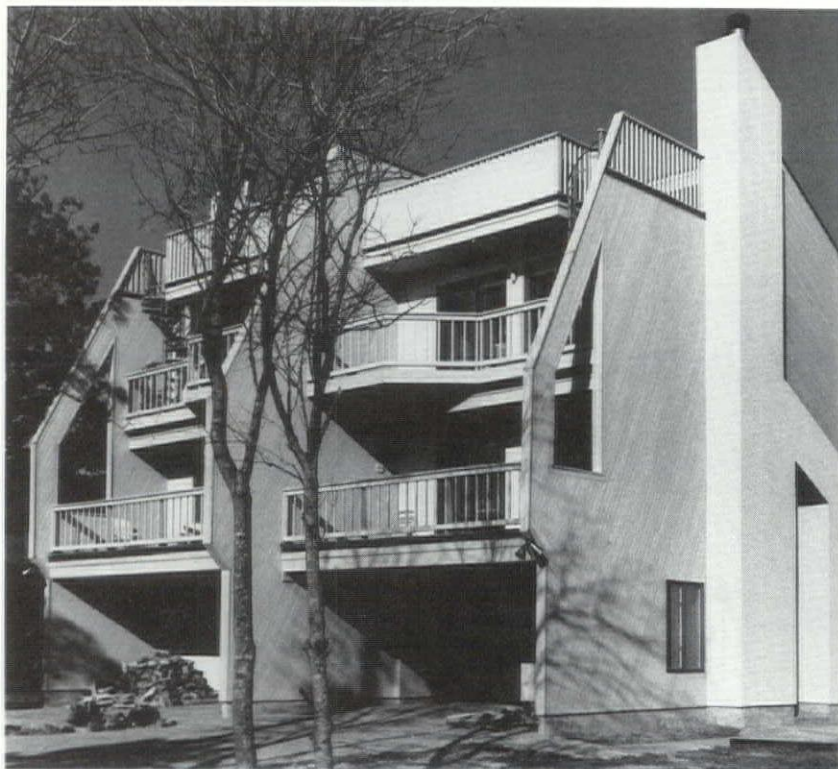
Balconies off the third floor bedrooms let in the winter sun to warm the room naturally. A built-in bank of drawers facing the closets provides a semi-private dressing area in the bedroom, while the other side which faces the bed contains shelves for books, television, art objects, etc. Second floor balconies lead from the living/dining area and their sliding glass doors are protected from the hot summer sun by overhangs from balconies above. While all the balconies are shielded by fin walls for privacy between the units and at the extremities of the building, there are trapezoidal cut-outs in the wall, allowing one to view the ocean as if looking through a transparent sail.

Soft white interiors reflect light from the skylights overhead and from circular windows in the east and west walls. Angular spaces created by the turns in the open stairways allow the flowthrough of light from many directions. Ceiling fans add charm to energy efficiency. The units are mirror images of one another in the floor plan arrangements.

In the kitchens, ceilings rise to 18 feet and the room can be viewed from interior balconies on the third floor. Inside temperatures on some winter days are up to 80° and there is not the need for electric heating.

Fireplaces in the living rooms have devices for recirculating the heat. Floor air is drawn up under the cutout beneath the fireplace and pumped to the heat exchanger behind the firebox, warmed, and blown out through vents in the side of the suspended arched mantel. A ceramic tiled ledge is built out in front of the fireplace as a cozy seating space for fireside chats. Blues, greens and aquamarines reinforce the leitmotif of sand-sea-and-sky in the interior furnishings.

The white tiled entrance hall on the first floor displays a rock garden under the stairs, filled with exotic plants. There is a bedroom, bathroom



Salasky-Sedel, Inc.

*Specializing in
Development & Construction
of
Condominiums
and
Joint Ventures*

Call 804/422-8839

**414 25th Street
Virginia Beach, Va. 23451**

Ann Walker Creative Interiors

*Consultation
On Long or Short-Term
Design for Your Home
From Planning to Completion
Call for an Appointment*

*384-1336
4825 Locksview Rd., Lynchburg, Va. 24503*

HANCOCK-FUQUA INC.

**General
Contractor**



St. Reg. #3

Phone 528-0300

LYNCHBURG, VIRGINIA

Shenandoah's Pride

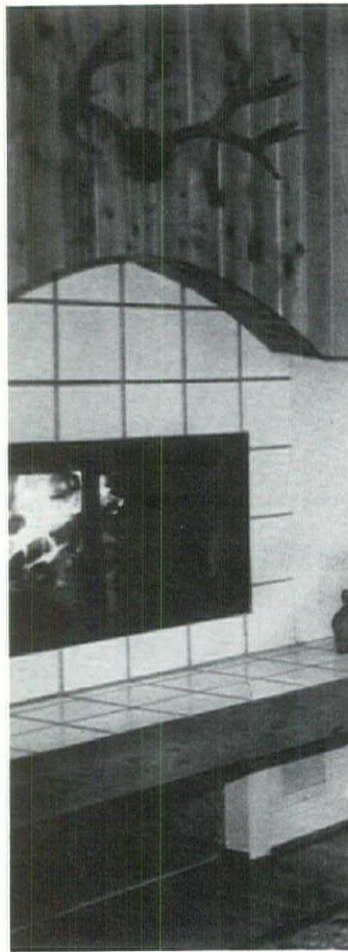
*** DAIRY PRODUCTS ***

Valley of Virginia Milk Producers Co-operative Association

Richmond
Harrisonburg
Woodstock
Winchester
Front Royal
Luray
Springfield
Staunton
VIRGINIA

Martinsburg
WEST VIRGINIA

Hagerstown
MARYLAND



and laundry room downstairs and a convenient at-home office just inside the front door.

The owners, Salasky-Sedel, Inc. of Virginia Beach, acted as general contractor for the project.

Subcontractors & Suppliers

Other Virginia Beach firms were: Premier Millwork & Lumber Co., Inc., handrails & millwork; Ayers Insulating & Supply Co., Inc., wall insulation; Beach Glass Co., glass; Garmon T. Justis, Jr., Paint Contractor, painting contractor; Beach Hardware & Paint, Inc., paint supplier; Schell Supply Corp., plumbing fixture supplier; and R. A. Styron Heating & Air Conditioning, Inc., heating/air conditioning contractor.

Norfolk firms were: Lone Star Industries, Inc., concrete supplier; H & H Construction Co., carpentry; Addington-Beaman Lumber Co., Inc., structural wood & wood doors; Kitchen Towne, Div. of Towne Distributors, Inc., cabinets & wall covering; Seaboard Building Supply Co., hardware supplier; I. G. M. Tile, Div. of Artistica, Inc., ceramic tile supplier; Rug Shops of Maurice Unger, carpet; J & S Plumbing & Heating, plumbing contractor; Atlantic Electric Supply, lighting fixtures supplier; and Hightower Electric, electrical contractor. Also, Andersen Windows of Bayport, MN, windows and window wall.

Garmon T. Justis, Jr. Professional Painting Co.

**1400-105 Wendfield Drive Phone 804/427-6015
Virginia Beach, Virginia 23456**

J & S Plumbing & Heating Co.

**Phone 804/423-3092
8558 Granby Street, Norfolk, Va. 23503**

Worsham Sprinkler Co., Inc.

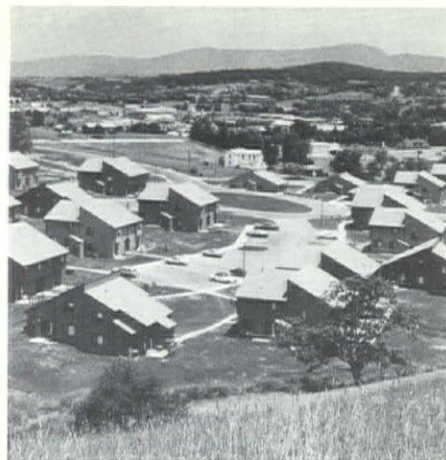


**FIRE PROTECTION
SYSTEMS**

SALES & COMPLETE SERVICE

**Phone 804-798-3381
313 S. Richardson Rd.**

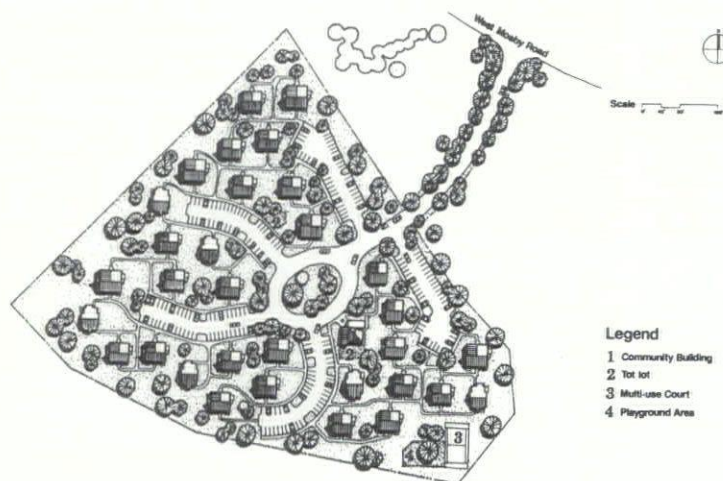
Ashland, Va. 23005



Mosby Heights

Harrisonburg

Environmental Design Group, Inc.—Architect



Landscape Architect, EDAW • Mechanical Engineer, Solar Energy Engineering • Electrical Engineer, Peri & Associates • Structural Engineer, Gultu-Fernandez • Civil Engineer, Cervantes & Assoc. • General Contractor, Huges & Dalton Construction Co. • Photography, Claude Miller.

This complex of 32 quadraplex buildings provides 120 apartments for low and moderate income families and is located on a 12-acre sloping site in Harrisonburg. Each building contains either four two-bedroom, four three-bedroom, or two four-bedroom townhouse type apartments. There are also four one-story flats specially designed for wheelchair residents and a separate community building. The community building contains a large meeting room, rental offices and a central laundry. Besides three totlots the development includes a playground for older children and a multi-purpose court.

The principle design feature of the complex is the distribution of the buildings around parking "fingers" served by a central road system. This allows the buildings to be grouped as "neighborhoods" and provides, between them, an interconnecting greenspace free from vehicular traffic.

All the buildings have been oriented due south, with their main roof sloped in that direction to allow for future addition of a solar hot
(Continued on page 63)





Tenant House, Points of View Farm

Flint Hill

James F. Tucker, AIA—Architect

James F. Tucker, AIA, of Warrenton was awarded a 1980 Design Award from the Northern Virginia Chapter AIA for his design of the Points of View Farm Tenant House.

The Northern Virginia Chapter AIA design award was for a project with a construction cost of under \$100,000. This design incorporates passive solar heating and ventilation for the small farm manager/tenant house which was constructed by Monecs Corporation of Boston, Virginia for Patricia Saltonstall, owner of Points of View Farm, Flint Hill.

The owner's program was to produce a small residence of 1000 net square feet, with two or three bedrooms, for use as farm manager/tenant house. The house was to be designed and sited for supervision of farm land at the lowest possible construction and operation cost.

A design was produced for a compact passive solar house which could be built as a two or three bedroom, one-and-a-half or two-and-a-half bath house. The passive solar design incorporates an earth mass storage system, with near total north and south wall area plenums for heat collection and distribution. Total building area is 1550 square feet, providing a net floor area of 1250 square feet. Total construction cost for the entire house was \$56,300.

To achieve lowest cost feasible, building materials and solar heat system components were selected for lowest initial cost with twenty

Owner, Patricia Saltonstall • General Contractor, Monecs Corporation • Photography, James F. Tucker, AIA.

year or greater life expectancy. Double walls of low cost, insulated glass sliding doors and windows perform functions of solar collectors, while heat distribution is achieved by natural thermal convection through plenums. An active solar domestic hot water heating system design is provided on the south wall. Equipment may be installed at a later date.

Architect's design calculations indicate that back-up heat for one season can be supplied by one-half cord of firewood. Firewood is readily available on the farm, and a small wood stove/fireplace is provided for heating emergencies.

The site is gently rolling farm land which abuts a small mountain to the north. The house provides security for the cattle farm through its visual command of the fields.

Monecs Corporation of Boston, Virginia was general contractor and handled carpentry, structural wood and cabinets.

Subcontractors & Suppliers

Canton Construction, Washington, Va., excavating; Myers Welding, Front Royal, handrails; Martin Woodard, Washington, Va., masonry contractor; B & B Roofing, Waterlick, roofing; Omar Stoltzfus, wall insulation & painting con-



tractor; Caradco Windows, windows; Norandex Aluminum Building Products, Norfolk, window wall; Kennedy, skylight; and Pleasants Hardware, Richmond, hardware supplier. Also, Superior Drywall, Midland, gypsum board contractor; Culpeper Carpet & Ceramic Center, Culpeper, ceramic tile; Early's Carpet, Amissville, resilient tile; J & H Aitcheson, Falls Church, plumbing fixture supplier; Everett Estes, Washington, Va., plumbing/electrical contractor; and Piedmont Electric, Manassas, lighting fixture supplier.



Ground Level



Main Level



Upper Level

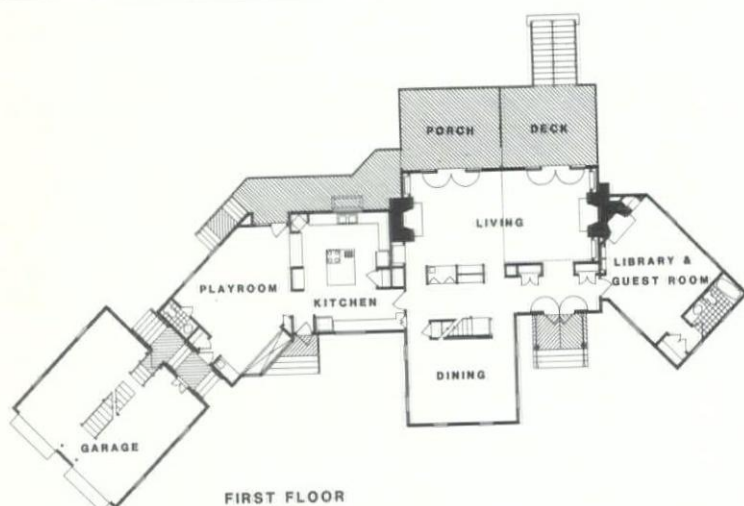


Residence for Mr. & Mrs. Henry Harrell

Richmond

Marcellus Wright Cox and Ladd—Architect

Structural Engineer, Harris Norman Giles & Walker
• General Contractor, Thomas H. Harris, Jr., Builder, Inc. • Photography, Don White.



Situated on a hillside facing north overlooking a small lake on a secluded heavily wooded site west of the city, this residence was designed to reflect the owner's desire for private country living.

The plan is quite traditional in a sense but informal in execution. Nearly every space has at least two exposures with ample access to natural light and cross ventilation. The house is divided into zones with the center devoted to entertaining in an L-shape including entry, living and dining.

Entry is gained through a low foyer into a two-story living area facing the lake. A low area adjacent to the living area houses a more informal setting and bar, also facing the lakeview. The entrance gallery, with stairs to the family living quarters on the upper level, parallels the axis of the house and connects the kitchen-family and guest quarters/library on opposite ends of the house. The stairway landing overlooks the sloped-ceilinged dining room on the entrance drive approach.

Materials are wood, color stained with painted trim for low maintenance but to accentuate the house from the wooded setting. Detailing is simple but consistently elegant throughout the house. Interior materials are also traditional, wood and plaster.

On the upper level, a bridge overlooking the main living/entertaining area connects the master bedroom suite, also overlooking the lake, with the children's rooms on each end of



the house. A deck partially screened-in parallels the entire house on the lakeside.

Thomas H. Harris, Jr., Builder, Inc. of Richmond was general contractor and handled carpentry and waterproofing.

Subcontractors & Suppliers
(Richmond firms unless noted)

C. F. Richmond, Inc., Crozier, excavating; T. W. Henley, Rockville, landscaping; R. H. Pierson, foundations; Hughes Steel Co., Inc., Mechanicsville, steel supplier; Ruffin & Payne, Inc., handrails, structural wood, millwork & paneling; Kitchen Center, Glen Allen, cabinets; and W. R. Stansbury & Bro., caulking, painting contractor, special wall finish and wall covering.

Also, Jacobs "Ladder" General Contracting, Ashland, roofing; O. W. Weiler, wall insulation; H & H Heating & Air Conditioning, Inc., sheet metal & heating/ventilating contractor; Pleasants Hardware, hardware supplier; J. N. Wolfe, Bumpass, gypsum board contractor; Morris Tile Distributors, Inc., ceramic tile; Costen Floors, Inc., special flooring; Benjamin-Moore, paint manufacturer; Wade L. Eatmon Plumbing & Heating, plumbing contractor; and Cornell & Waldbauer, electrical equipment supplier/electrical contractor.

FRAZIER CONSTRUCTION CO.

General Contractor

St. Reg. #10664

COMMERCIAL — INDUSTRIAL

Phone 804-369-5666

U.S. 29 North

Altavista, Va.

KUYKENDALL INTERIORS

3500½ West Cary Street (804) 359-0891
Richmond, Virginia

*fabrics, wallpapers, carpets, furniture,
slipcovers, draperies, upholstery
complete design assistance*

Emily Tabb Kuykendall

Susan Currin Lankenau



QUALITY PRODUCTS FOR QUALITY BUILDERS

P. O. Box 12085 NORFOLK, VA. 23502

PHONE 466-8122 AREA 804

CONQUEST, MONCURE & DUNN, Inc. CONSTRUCTION

COMMERCIAL • INDUSTRIAL • INSTITUTIONAL



208 East Cary Street

RICHMOND, VA. 23219

Telephone (804) 643-3434



Mervis-Glasser Duplex

Virginia Beach

Richard L. Grimstead, AIA—Architect/Engineer

Associated Architect, Julian Sawyer • Structural Engineer and Interior Design, Richard L. Grimstead, AIA • General Contractor, Hudgins Real Estate Co. • Photography, Julian Sawyer.

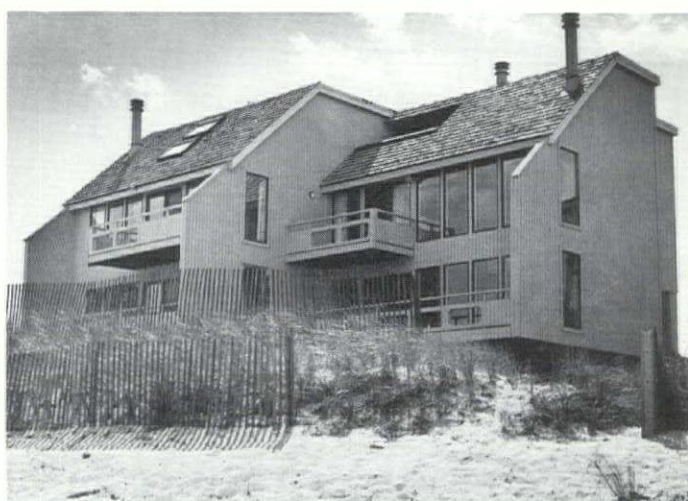
Completed in September 1980, the Mervis-Glasser Duplex is located on Dupont Circle in Virginia Beach. The project consists of two three-bedroom residential units on a very constrained site, with a spectacular view of the busy shipping lanes of the Chesapeake Bay.

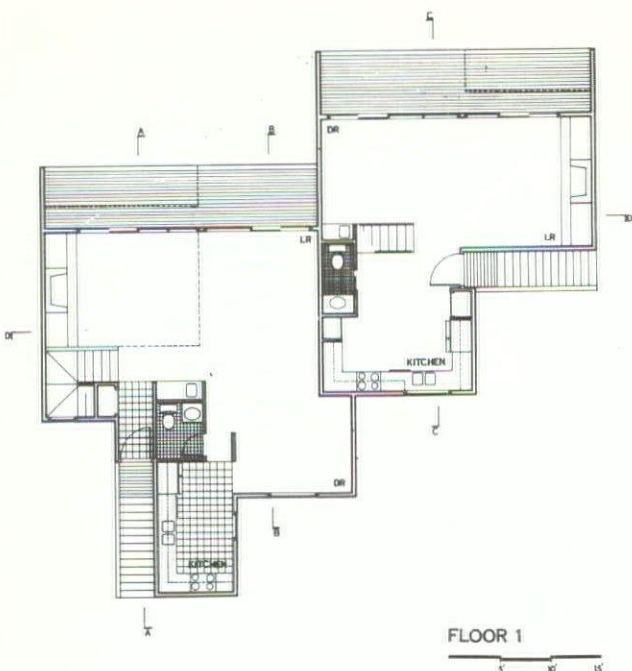
The two units were constructed on wood piling with the ground level left open to permit the natural movement of the shifting sands of the bayfront. Each unit was designed to accommo-

date the requirements of two different styles of living.

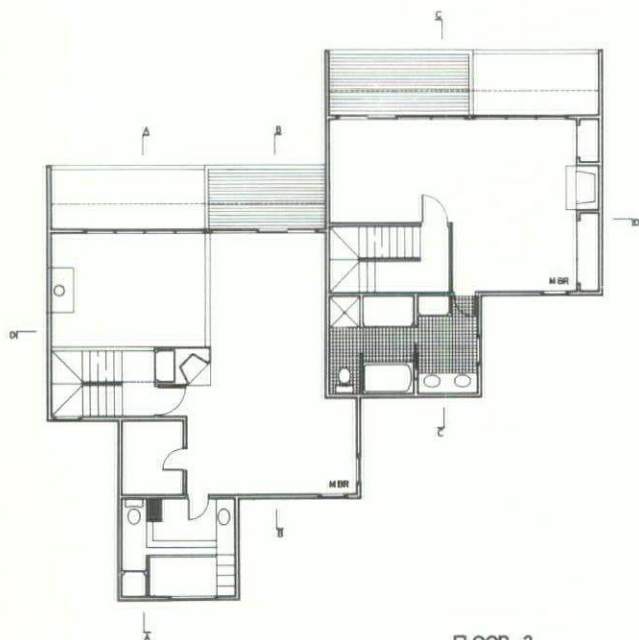
The Mervis unit, number 3749 Dupont Circle, is designed to fit the lifestyle of a carefree bachelor, while the Glasser unit, number 3751 Dupont Circle, is designed to the needs of a young married couple.

Although the units' floor plans are entirely different, there are similarities. The first level above the ground serves as the main living area

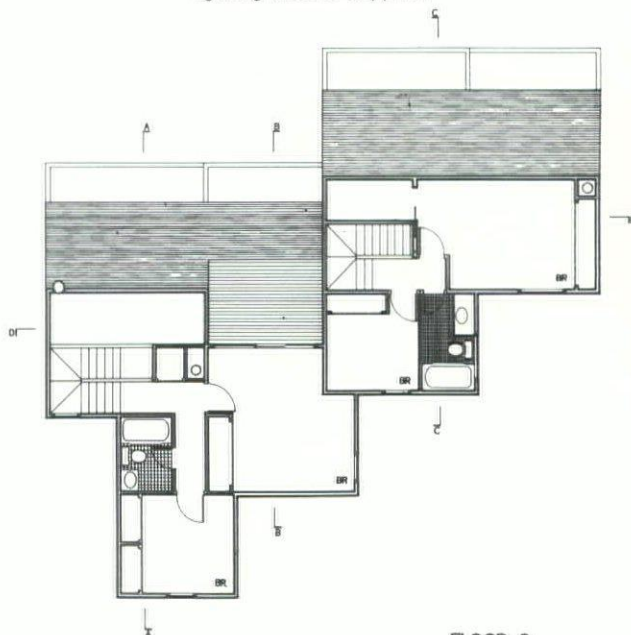




FLOOR 1
5' 10' 15'



FLOOR 2
5' 10' 15'



FLOOR 3
5' 10' 15'

of each. The living room, dining room and kitchen are located on this level. The second level is occupied by the master bedroom in each unit, and two smaller bedrooms are located on the third level.

The structure was purposely oriented toward the Chesapeake Bay to afford practically all rooms with a view of the Bay.

Hudgins Real Estate Co. of Virginia Beach was general contractor and handled carpentry, millwork, waterproofing, caulking, built-up roof and other roofing. The firm also handled roof/wall/foundation insulation, glazing, gypsum board installation, ceramic tile and painting.

Subcontractors & Suppliers

(Virginia Beach firms unless noted)

Welch Pile Driving Corp., piling; Asphalt Roads & Materials Co., Inc., paving contractor; Kempsville Building Materials, Inc., structural wood; Kitchen Towne, Div. of Towne Distributors, Inc., Norfolk, cabinets; Binswanger Glass Co., glass; Bass & Co., Norfolk, wood doors; and Greenwich Supply Corp., windows.

Also, Seaboard Building Supply Co., hardware supplier; Hudgins Rugs & Carpets, carpet; Glidden Coating & Resins, paint supplier/manufacture; Princess Anne Plumbing & Electrical Suppliers, Inc., plumbing fixture supplier & plumbing/electrical contractor; Smith & Keene Electric Service, heating/air conditioning contractor; and Atlantic Electric Supply, Norfolk, lighting fixtures supplier.

Princess Anne Plumbing & Electrical Suppliers, Inc.

Residential—Commercial
Phone 804-428-1660

410 - 18th Street
2403 N. Landing Road

Virginia Beach, Va.

Seaboard Foundations, Inc.

Drilling & Foundation Construction

8576 DORSEY RUN RD.

DIAL (301)792-8616

JESSUP, MARYLAND 20794

Va. St. Reg. #8624

J&W

Landscaping, Inc.

Keeping Virginia Green is Our Business

Seeding, Soil, Mulching, Sodding
PRODUCTS SALES DIV.

Dealers In: Royster Fertilizer

All Materials Meet Virginia
Highway Specifications

Phone 662-6394
Route #6 Box 134
Winchester, Va. 22601

PAVING CONTRACTORS INC.

St. Reg. #A 16-330

Phone (804) 529-6411
Post Office Box 58
Village, Virginia 22570

Ornamental Tile Inc.

Contract & Retail

Phone (804) 340-8055

3576 Holland Road
Virginia Beach, Va. 23452

JOHN P. WRIGHT CONSTRUCTION

Total Site Improvements

•
Foundations & Floors

Va. St. Reg. #16098

Phone 804/488-4858 2417 Lakewood Lane
Chesapeake, Virginia 23321

"VISIT ONE OF TIDEWATER'S LARGEST SHOWROOMS"

Killegass Lighting



RESIDENTIAL - COMMERCIAL

Dial 420-6621

1728 S. Military Hwy.
CHESAPEAKE, VA 23320

Take Greenbrier Exit
Off Interstate 64
Turn Left on Rt. 13
Business
Off Indian River Rd.



MASSAPONAX Sand & Gravel Corp.

READY-MIXED CONCRETE

WASHED SAND AND GRAVEL

Main Office & Plant
Fredericksburg, Virginia
(703) Phone 373-3841

Distribution Terminal
TRIANGLE, VIRGINIA
(703) Phone 875-5645

W. A. Lynch Roofing, Inc.

*Commercial—Industrial
Residential*

State Registration #8491

Phone 295-9194

1234 River Road, Charlottesville, Va. 22901



Phone 703/638-8821
P. O. Box 2098
Martinsville, VA 24112

JOHN D. CLAYBORNE, INC.

General Contractor

RESIDENTIAL—COMMERCIAL

Phone 703-241-1088

100 W. Jefferson St.

Falls Church, Va. 22046

P. O. Box 3527

Phone (804) 275-1463

C. W. WRIGHT CONSTRUCTION COMPANY, INC.

Contractors

SPECIAL HOT LINE WORK
SUBSTATIONS
SURVEYING

UTILITY IMPROVEMENTS
TRANSMISSION LINES
DISTRIBUTION LINES

5436 Jefferson Davis Highway

Richmond, Va. 23234

Don Largent Roofing Company, Inc.

St. Reg. #6019

Roofing and Sheet Metal

ROOFING MATERIALS

"OVER FIFTY YEARS COMBINED EXPERIENCE"

COMMERCIAL — INDUSTRIAL

1021 Toppin

Dial (703) 434-0868

HARRISONBURG, VIRGINIA

PITTMAN MECHANICAL CONTRACTORS INC.

*Plumbing—Heating
Ventilating—Air Conditioning*

Phone 804/423-2360

4015 Killam Avenue, Norfolk, Va. 23508

Schellhammer Residence

(Continued from page 23)

contrasting texture to the whiteness and smoothness of the rest of the house.

An entrance hall soars to 20 feet and is surrounded on three sides by a mosaic of windows of varying dimensions flanking the wooden door and its side panels of glass.

A panorama of scenery and morning sunlight illuminates the spacious kitchen and breakfast area from the long bank of windows on the east and the glass window walls facing the south balcony.

The playroom and bedroom areas in the children's wing have whole walls of built-in drawers, shelves and cubby holes for stashing toys, books, records and secret treasures. Brightly painted graphic designs decorate the clean white walls, their tints continuing through the width of the mini-blinds for an uninterrupted flow of color around the room.

C. F. Hardy Building Corp. of Virginia Beach was general contractor and handled excavating, concrete work, masonry work, steel erection, carpentry, roofing, plaster and gypsum board installation, electrical equipment supply and electrical work.

Subcontractors and Suppliers

(Virginia Beach firms unless noted)

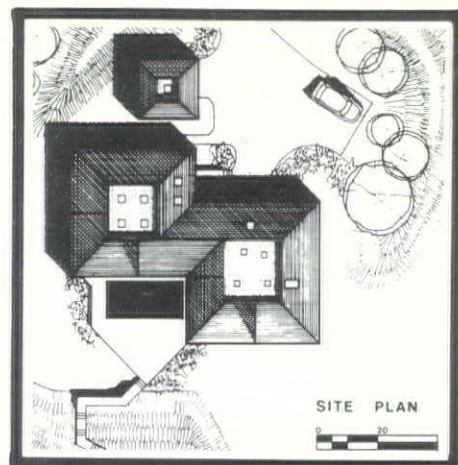
Stringwood Landscape Nursery, Carrsville, landscaping; Lone Star Industries, Inc., Norfolk, concrete supplier & masonry manufacturer; Chesapeake Steel, Inc., Norfolk, steel supplier; Kempsville Building Materials, Inc., structural wood, Andersen Windows & wood doors; H & L Corporation, millwork; Yukon Lumber Co., special paneling; The Shed, cabinets; and A-1 Roofing Service, built-up roof.

Also, Insulation Service Co., Inc., roof/wall/foundation insulation; Glass Corporation, Norfolk, glass & glazing contractor; Seaboard Building Supply Co., hardware supplier; Ceramic Tile of Fla., Inc., ceramic tile & resilient tile; Cofers, Inc., carpet; Floor Magicians, special oak flooring; Tom Kenney, painting contractor; Schell Supply Corp., plumbing fixture supplier; Simmons Heating & Cooling, heating/ventilating/air conditioning contractor; Hillegass Lighting Corp., Chesapeake, lighting fixtures supplier; and Tom Evans of Greenleaves, interior plants.

Porter & Cole Inc.

CONSTRUCTION

Phone 703/536-9600
450 West Broad Street
FALLS CHURCH, VA 22046



Lawrence Residence

White Stone

G. Warren Vaughan, AIA, Architecture

Landscape Architect, C. Preston Dalrymple • General Contractor, Brooks & Elliott, Inc. • Photography, G. Warren Vaughan, AIA.

Owners's Program: A vacation residence with pool, boathouse, and outdoor recreation area for a family with two children. Future use of residence for retirement should be a consideration.

Site Considerations: The site is high on a bluff on the northern shore of the Rappahannock River. Views of the water and a nearby bridge, as well as proximity to an adjacent residence were primary considerations.

Design Considerations: Organized around a design parti of two connected cubes, each with a pyramid roof, the plan reflects a clear delineation of public and private spaces, which intersect at the connecting point. The public side of the house contains the major living spaces, including a double-height living room, all exposed to views of the water, which wrap around a central service core. The private side contains the sleeping spaces, which also have views of the water and wrap around a central service core. On the second floor of the bedroom wing is a private bedroom suite with dressing room and bath for the owners. The powerful form of the roof is visible above the berms which wrap around the north side of the house. The boathouse is a diminutive repetition of the form of the larger building.

Energy Considerations: A deep veranda wraps around the southern (riverfront) side of the house, which is oriented diagonally in relationship to the river. The veranda offers protection from harsh reflected sunlight in summer, yet allows the low winter sun to penetrate and warm the house. The north elevation has few openings, which along with the berms on the site, offers protection against the cold north winds. Eleven skylights offer natural lighting throughout the house. A zoned heat-pump system, together with an attic fan, offers maximum flexibility in climate control.

Materials: Bleached cypress siding offers a natural appearance and easy maintenance. Case-ment windows with white vinyl-clad frames



offer a crisp accent to the siding while providing good resistance to harsh weather. A Western red cedar shingle roof, with copper flashing, blends with the siding, and a single membrane, flexible sheet roofing system covers the flat areas at the center of each pyramid.

Heindl-Evans, Inc. of Mechanicsville was general contractor for the project.

Subcontractors & Suppliers

Virginia Landscaping & Excavating, Inc./William Smith, Kilmarnock, excavating; John Sebra & Son, foundations; Kitchen Center, Glen Allen, cabinets; Wood Roofs, Inc., roofing; G. T. Duke Insulation Co., Inc., Richmond, wall insulation; Andersen Corp., Bayport, MN, windows; Capitol Floors & Decorating, Inc., resilient tile & carpet; Leonard Mintor, Highland Springs, painting contractor; Benjamin-Moore, Inc., Colonial Heights, paint manufacturer; Douglas Aquatics, Inc., Mechanicsville, swimming pools; Conway Plumbing, plumbing contractor; Tri-County Heating, Kilmarnock, heating/ventilating/air conditioning contractor; Noland Co., Newport News, lighting fixtures supplier; and W. J. Whitley, Gloucester, electrical contractor.

The American Dream . . . (From page 7)

reduce construction costs. Higher density building will allow more people to live on less land, cutting costs and furnishing more homes. Builders are learning how to build homes faster and to build them smaller. Housing, it seems, must now go through some of the pains recently

suffered in Detroit—"downsizing." The market is already shifting away from large buy-up homes to smaller models tailored to the needs of first-time buyers with smaller families. Architects and designers are learning to adjust to builders' and buyers' budgets, and builders are learning to adjust to these architects' and designers' new plans. And, everyone in the industry is learning about the various new mortgage tools. Ultimately, and optimistically, the end results should be a better educated builder, a better educated buying public, and better and more efficiently designed housing.

Restoring the home buyer's access to credit is perhaps a more difficult and long-term challenge, but builders have already done much to get wheels rolling in the right direction. This year marks the beginning of the tax exempt all-savers certificates for which home builders all over the country lobbied. In addition, home builders have reached Washington and the President with their opinions and ideas on cures for the ailing industry.

Not long ago, President Reagan agreed to an extensive interview with executives of *PROFESSIONAL BUILDER* magazine answering many questions specific to the industry. This March, he met personally with Fred Napolitano, president of the National Association of Home Builders, to consider an emergency stimulus program which would help both home buyers and home builders. These meetings are perhaps the best indication of his feelings of the importance of the housing industry.

In his interview with *PROFESSIONAL BUILDER* Reagan predicted that by the end of the second quarter of 1982, the cost of funds to savings institutions should fall below lending rates and that mortgage money would then be more plentiful.

"In particular," he said, "I expect that the trend since 1970 of increasingly higher homeownership rates among young households will reassert itself."

The Kiplinger Letter predicted a recovery beginning in late spring with inflation down to eight percent or less for the entire year.

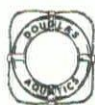
Home prices have already eased in a competitive market, but will probably rise again slightly as pent-up demand enters the market.

Interest rates will fluctuate, continuing downward, then up slightly with business improvements. The prime is predicted to dip to 13 percent or 14 percent, then climb to 15 percent. Mortgage rates will slip to near 14 percent.

Standard & Poor's Corporation's survey of nine major industries showed bright prospects for the housing industry in the second half of 1982 with construction contracts estimated to reach \$169 billion, up 15 percent from the \$148 billion estimated for 1981.

On the whole, I believe the industry can look forward to many improvements as a smoother pattern of housing growth develops in a healthier economy.

Housing, in the long run, will remain a good investment. Single family homes will probably continue to rise in value, although more slowly. Accumulation of equity, as opposed to paying rent, will remain a disciplined way to build capital, and savings on investing in a home with the first year tax break on interest will continue to be attractive.



**DOUGLAS
AQUATICS,
INC.**

F. Douglas Salvia

SWIMMING POOL CONSTRUCTION
COMPLETE POOL SERVICE & EQUIP.
PROFESSIONAL POOL MANAGEMENT

Telephone (804) 232-8027
2712 Hull Street
Richmond, Virginia 23224

HEINDL-EVANS, INC.

General Contractors

Commercial — Industrial — Residential



Phone 746-7851
St. Reg. # 10072

DESIGN/BUILD Mechanicsville, Va.

Robert S. Lovelace Co., Inc.

Mechanical Equipment

804/358-0404

Richmond, Virginia 23221

Post Office Box 7315

Q. M. TOMLINSON, INC.

St. Reg. #274

General Contractors
COMMERCIAL INDUSTRIAL



Phone 703-345-0997

601 First Federal Bldg.

Roanoke, Va.

Bryant-Durham Electric Company, Inc.

Electric Contractors

Va. St. Reg. #9851

INDUSTRIAL — COMMERCIAL — INSTITUTIONAL — HOSPITALS

5102 Neal Rd.

Dial (919) 383-2526

DURHAM, N.C. 27705

Gypsy Hill House

(From page 25)

Financing for the complex was provided by the Virginia Housing Development Authority with residents also receiving rental assistance under the HUD Section 8 Program.

Hughes & Dalton Construction Co. of Danville was general contractor and handled concrete work, carpentry, structural wood (roof trusses), millwork, cabinets, waterproofing, metal doors and frames, wood doors, and windows.

Subcontractors & Suppliers

Glennie R. Campbell, Stuarts Draft, excavating; Charles C. Finney Jr., Inc., Danville, landscaping contractor; Farrier Paving Co., Staunton, paving contractor; Fabricated Metals Industries, Inc., Roanoke, steel supplier/roof deck & miscellaneous metals; Gupton Insulation Co., Inc., Clarksville, built-up roof & metal roofing; Davenport Insulation, Inc., Harrisonburg, roof insulation & wall insulation; Skyline Paint & Hardware, Inc., Roanoke, hardware supplier; Millers Drywall, Inc., Harrisonburg, gypsum board contractor; Leland's Tile Co., Inc., Danville, ceramic tile; King Industries, Inc., Norfolk, carpet; H. T. Patterson, Greenville, painting contractor; Dover Elevator Co., Greensboro, NC, elevators; R. W. Cash Mechanical Contractors, Inc., Staunton, plumbing/heating/ventilating/air conditioning contractor; and Oakes & Motley Electric Co., Inc., Danville, electrical contractor.

Mosby Heights (From page 53)

water system. Other special energy features include window locations based on passive design objectives and front entry vestibules.

The primary exterior material is stained plywood siding with wood trim. Each of the buildings alternate color of siding and trim as a way to individualize the units. Every apartment has its own entrance and private exterior patio.

Financing for the project was provided by the Virginia Housing Development Authority with residents receiving rental assistance under HUD's Section 8 Program.

Hughes & Dalton Construction Co. of Danville was general contractor and handled foundations, concrete work, miscellaneous metal, carpentry, structural wood (wood trusses), millwork, cabinets, metal doors and frames, wood doors and windows.

Subcontractors & Suppliers

Glennie R. Campbell, Stuarts Draft, excavating; Charles C. Finney Jr., Inc., Danville, sodding, seeding, etc., landscaping & landscaping contractor; Farrier Paving Co., Staunton, paving contractor; Gupton Insulation Co., Inc., Clarksville, built-up roof & sheet metal; and Davenport Insulation, Inc., Harrisonburg, roof insulation and wall insulation.

Also, Skyline Paint & Hardware, Inc., Roanoke, hardware supplier; Millers Drywall, Inc., Harrisonburg, gypsum board contractor; The Standard Tile Co., Verona, ceramic tile; King Industries, Inc., Norfolk, carpet; H. T. Patterson, Greenville, painting contractor; R. W. Cash Mechanical Contractors, Inc., Staunton, plumbing/heating/ventilating/air conditioning contractor; and Oakes & Motley Electric Co., Inc., Danville, electrical contractor.

(804) 932-3628

Adams Painting Corp.
RESIDENTIAL AND COMMERCIAL



100 CEDAR LANE
QUINTON, VA. 23141

DAN ADAMS

Glennie R. Campbell Company

Excavating, Motor Grader,
Bulldozer Contractor
Va. St. Reg. #20090

Phone (703) 337-1334

Route 1, Box 312
Stuarts Draft, VA 24477

BASS CONSTRUCTION CO., INC.



General Contractors
RICHMOND, VIRGINIA

OAKES & MOTLEY ELECTRIC COMPANY INC.

Va. State Reg. #A 18954 A

Phone 804/792-5145
2227 No. Main St., Danville, Va.

K. R. Olsen, Manager



NATKIN

SERVICE COMPANY INCORPORATED

Commercial—Industrial—Institutional

22000 WASHINGTON HWY. NORTH
P.O. BOX 25597

CALL US AT (804) 798-8336
AFTER HOURS CALL 355-6501
RICHMOND, VIRGINIA 23261

Miller's Drywall Inc.

Class A Contractors
Va. St. Reg. #A-12968

Phone (703) 434-8184
Route 10, Box 69, Harrisonburg, Va. 22801

—OUR 28TH YEAR—



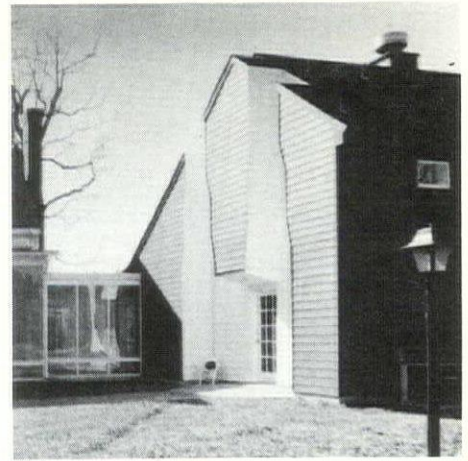
AREA LANDSCAPING, INC.

Landscape Contractor

Commercial—Residential—Industrial

4118 OLLEY LN.
FAIRFAX, VA. 22032

(703) 323-9123



Private Residence

Chesterfield County

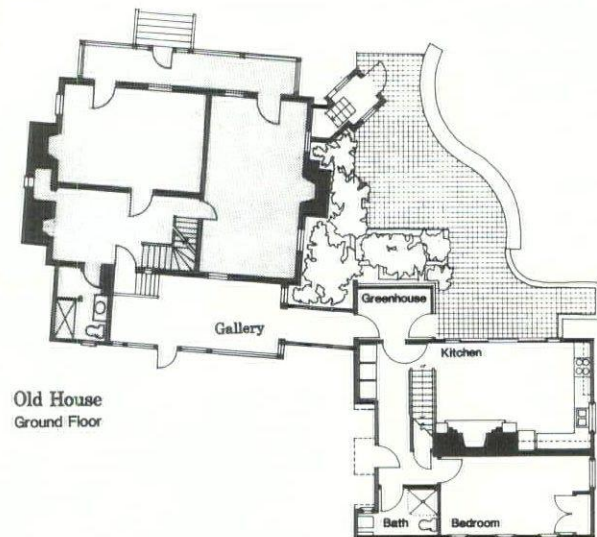
Interplan—Architect

General Contractor, Thomas W. Anderson • Photography, Interplan.

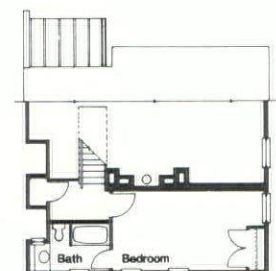
This project consists of a large addition to a private residence in Chesterfield County. The existing early 19th century farmhouse had much charm, but it was also cramped and inconvenient. The family's need for additional space called for a volume almost as large as the existing house. To maintain the integrity of the older structure, the addition was designed as a separate structure, offset from the original so that it did not block the view of its original walls. The two buildings are connected by a greenhouse and screened porch which can be enclosed with plastic insulating panels in cold weather.

The north side of the addition, seen from the approach, suggests a farm building, with rows of small square windows. On the east side of the addition, which is perpendicular to the north side of the original house and its entrance, a deep recess duplicates the lines of the double chimney on the parallel side of the old house, as a way of relating the old and new. The double chimney is the strongest feature of the old house, and its negative image in the addition is the strongest feature of the new. The colors are also reversed; the recess is painted white like the walls of the original house, and the walls of the addition are the same dark red as the chimney and the nearby farm buildings.

On the south side, sliding glass doors open onto a brick terrace, which has two features; a curved brick seating wall and a small gazebo-like structure that actually houses a new entrance to the basement of the old house. The brick paving of the terrace extends into the eat-in kitchen which fills the south side of the addi-

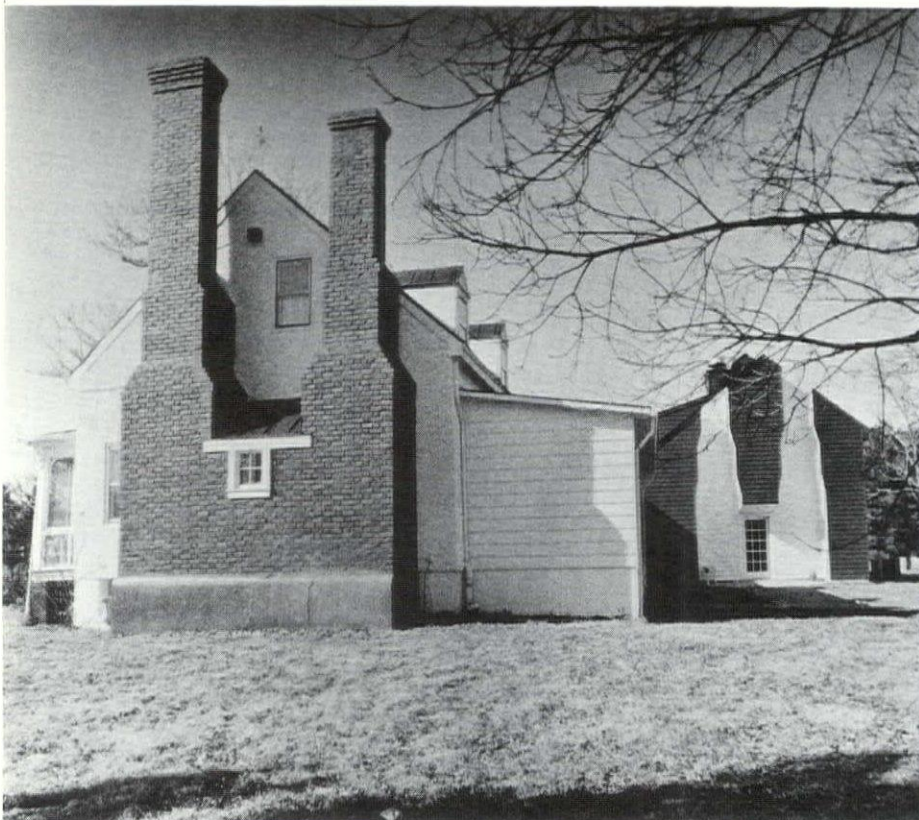


New House
Ground Floor



New House
Upper Floor





tion. This space is dominated by a massive masonry fireplace, which contains passages for circulating warm air to the bedrooms on the north side, and from the peak of the two story space back down to the floor. Brick floors and slab and the masonry wall enclosing the fireplace act as a passive solar heat sink, absorbing heat from sunlight falling through the large glazed wall on the south and clerestory windows above.

The addition is designed for accessibility for the disabled. A bedroom and bath with a roll-in shower occupy the north side of the ground floor, and another bedroom and bath above complete the program.

Thomas W. Anderson of Richmond was general contractor for the project.

Subcontractors & Suppliers (Richmond firms unless noted)

Lone Star Industries, Inc., concrete supplier; Concrete Pipe & Products Co., Inc., masonry supplier; Southside Builders Supply Corp., mortar; A. E. Tate Lumber Co., Inc., millwork; East End Fixture Co., cabinets; W. A. Patterson, roofing; Thermo-Press Corp., windows; J. A. Nearing & Co., Laurel, MD, window wall (greenhouse); Fendley Floor & Ceiling, Inc., carpet; M. P. Barden & Sons, Inc., painting contractor; R. J. Tilley Plumbing & Heating, Inc., Ashland, plumbing contractor; Howell Heating & Air Conditioning, Ashland, heating contractor; and J. L. Minter Electrical Contractors, Inc., electrical contractor.



**Mount Vernon
Skyline Drive
Monticello
Yorktown
St. John's Church**

Virginia. Capture the spirit of whatever you love. Virginia is more vacation...more America to the mile. For free color vacation planning kit, visit, write or call

VIRGINIA STATE TRAVEL SERVICE:
9th & Grace Street, Richmond 23219,
phone (804) 786-4484.



**Jamestown
Natural Bridge
Virginia Beach
Busch Gardens
Kings Dominion**

Virginia. Capture the spirit of whatever you love. Virginia is more vacation...more America to the mile. For free color vacation planning kit, visit, write or call
VIRGINIA STATE TRAVEL SERVICE


Virginia is for lovers.



**Jamestown Beach
Campsites**

Call 229-8366 or 229-3300
P.O. Box CB/Williamsburg, VA 23187

Miniature Golf Swimming Pool
Recreation Building

400 Ft. Fiber Glass Waterslide

**Grandview
Fishing Pier**

Bait—Tackle Snack Bar
Official Weighing Station

Mr. Paul Martin, Manager

Longest Pier on the Peninsula
2 Miles N. of Buckroe at Grandview
Rt. 167 through Fox Hill
Hampton, Virginia



Served
Piping
Hot!

Dujai's Carry Out

Phone 523-0631, Big Stone Gap, Virginia
ORDER NOW! It'll Be Ready When You Get There

**Governor Spottswood
Motel**

Member Friendship Inns of America
Family of Affordable Inn

Family Cottages
Honeymoon Units

Call 299-6444/1508 Richmond Rd.
Williamsburg, Virginia

**Plan Ahead for
Virginia Wine Industry's
Gala Weekend Celebration**

The Jeffersonian Wine Grape Growers Society of Charlottesville, whose members own over one-third of Virginia's wine growing country, will hold their annual Albemarle Harvest Wine Festival on Saturday, October 16th at The Boar's Head Inn. Thousands of people attended last year's similar event and more are expected this year.

The festivities will begin on Friday evening October 15th with an unusual Bacchanalian Feast in the Ballroom. Six courses with accompanying wines will be presented according to the culinary traditions of Ancient Greece on through history to Virginia of Thomas Jefferson's era. Family style feasting with costumed entertainers and dancing will be featured. Herbs, fruits and flower essences will highlight the celebration of Bacchus. The public is cordially invited for twenty-five dollars per person. Reservations must be accompanied by checks.

The next morning, Saturday, October 16th, The Annual Albemarle Harvest Wine Festival will begin at nine a.m. and continue until five p.m. Some of the day's activities include vineyard tours, 45 wine-related exhibits under a tent by the lake at the Inn, and wine tastings from Virginia's farm wineries. The program in the Inn Ballroom will begin at 10:30 a.m. with a gourmet cooking demonstration by Chef André Argaud, owner of Charlottesville's Gallery Restaurant and former Chef of the British Embassy in Washington, D.C. He will feature *Duckling, Marchand de Vin*, and *Salmon Papillotte au Champagne*, using Virginia wines.

The afternoon program begins at 2:30 p.m. with noted viticulturist, Lucie Morton Garrett's talk, "Virginia Comes of Wine Growing Age." Guest of honor, Dr. Gianni Zonin of Vicenza, Italy, will speak on "Our Virginia Commitment." The Boar's Head Inn's Award for Advancement in Viticulture will be presented at 3:30 p.m.

Admission to the festival is \$3.50. There will be a special charge of \$1.00 per person for the gala cooking demonstration. October 15th-16th are not-to-miss days for wine lovers.

H. R. Adkins Store

General Merchandise

Gas Oil

State Road 618 and 602
Phone 829-2761
CHARLES CITY, VA.



Education and Enjoyment Featured at AGC Convention—1982

While most folks count the new year from January 1, for Associated General Contractors of Virginia, the year begins the third week in January, with the Annual Convention at The Homestead, Hot Springs.

This year's convention dates, January 21 through 24, had the second highest attendance to date. This, in spite of a snow storm and icy roads that prevented two of the featured speakers from arriving. The inclement conditions brought only a few cancellations from the contractors who are used to persevering in any kind of weather.

A special highlight of the convention was the designation of Charles Lambert of R. D. Lambert & Sons, Inc., Chesapeake, as Construction Man of the Year, one of AGC's most prestigious awards. Lambert served as president of AGC of Virginia in 1980 and was recently elected to the National Board of Directors of AGC. He has served for many years on numerous AGC committees, both state and national, and continues active.

Congressman Paul S. Tribble was the featured speaker at the Awards Luncheon at which Lambert received his award. Tribble's message was thought-provoking, and enjoyable and many AGC members were pleased to hear within the week that he had announced his candidacy for the U.S. Senate race this fall.

Education and information features included a seminar on Corporate Tax Planning, presented by Sharon Virga and Laurie Brandt of Touche Ross & Co., Washington, D.C.; and a seminar on Personal Financial Planning called "Is There Life After Taxes?", presented by Neil Ware, Connecticut General Life Insurance Co., Norfolk.

An enjoyable ladies' program, planned by the wives of the convention committee, featured programs on securities, decorating with Oriental rugs, and a make-up demonstration by a national representative of Elizabeth Arden.



Congressman Paul S. Tribble was the featured speaker at the Awards Luncheon.



NEW OFFICERS

Jack B. Bays (second from right) was installed as new President of the Associated General Contractors of Virginia in ceremonies held January 24, 1982, at The Homestead, Hot Springs. Bays is President of Jack Bays, Inc., Altavista.

Other officers shown are: (left to right) Edwin C. Jennings, Jr., Chairman, Associate Division; Aubrey S. Bass, Jr., Treasurer; Ellis M. Tusing, Secretary; Q. M. Tomlinson, Second Vice President; Walter B. Caldwell, First Vice President; and, at Mr. Bays right, National AGC Senior Vice President (now President), H. C. Heldenfels, President, Heldenfels Brothers, Inc., Corpus Christi, Texas. Mr. Heldenfels installed the group at the final banquet.

NEW OFFICERS

At the final banquet, new officers for the year were installed by H. C. Heldenfels, National Senior Vice President, (now President) of the AGC of America. The new officers are:

President—Jack B. Bays, President of Jack B. Bays, Inc., McLean;

First Vice President—Walter B. Caldwell, Head of Marketing and Sales for John B. Daniel & Co., Inc., Danville;

Second Vice President—Q. M. Tomlinson, President of Q. M. Tomlinson, Inc., Roanoke;

Secretary—Ellis M. Tusing, President of Ellis & Company, Harrisonburg; and,

Treasurer—Aubrey S. Bass, Jr., President of Bass Construction Company, Inc.

BOARD OF DIRECTORS

Re-elected from the general membership to the Board of Directors were: George B. Clarke, Chairman of the Board of Kenbridge Construction Co., Inc., Kenbridge; and R. Tom DuPuis, Executive Vice President, Pendleton Construction Corp., Wytheville.

Also elected, to a first term, from the general membership were: Jack Downy, President of Buildex Design, Inc., Alexandria; John B. Wimer, Secretary-Treasurer of Smith-Wimer, Inc., Lynchburg; and Donald D. Sours, Vice President, R. E. Lee & Son, Inc., Charlottesville.



ASSOCIATE DIVISION

The new Chairman of the Associate Division is Edwin C. Jennings, Jr., Vice President and General Manager, Liphart Steel Co., Inc., Verona. The Vice Chairman is Henry L. Andrews, Vice President of Thompson's Ready-Mix, Inc., Danville.

Re-elected as Associate Division Directors were: Earl U. Morin, Vice President, Newport News Industrial Corp., Newport News; Henry L. Andrews, Vice President, Thompson's Ready-



Donna Frazier receives silk bouquet in appreciation from the AGC of Virginia for her graciousness as "First Lady" during 1981. She is applauded by Ginny Bays, wife of incoming president Jack Bays, and her husband Sandy Frazier, retiring president of AGC/Va.

**Fendley
Floor & Ceiling
Inc.**

Phone 233-8975

509 West 13th St.
Richmond, Va. 23224

**Williams
Construction Co.**

*General Construction
&
Masonry Contractors*

Phone (804) 973-3450

P.O. Box 198, Earlysville, Va.

Mix, Danville; and W. Roger Rowland, Sr., President, Rowland Electric Co., Inc., Marion.

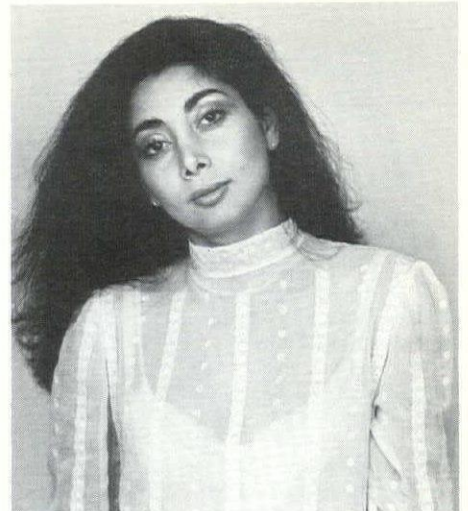
Elected for a first term as Associate Division Director was E. M. Jack Martin, E. M. Martin, Inc., Charlottesville.

In other activities, H. C. Heldenfels and Assistant Executive Director of National AGC, John W. Sroka presented an overview of AGC activities nationally, during the national report session. "The Singing Hoosiers," of Indiana University, provided entertainment.

Members of the convention committee who planned so well were: Chairman—Mitchell Mays, Montague-Betts Co., Inc., and his wife Kathryn Mays; Sandy Frazier, Frazier Construction Co. and Donna Frazier; O. Hume Powers, Al-Steel Fabricators, Inc. and Pat Powers; and E. O. Shawalter, F. L. Shawalter, Inc. and Ann Shawalter.

The convention committee for next year will be headed by Nick R. Costellano, of Fred S. James & Co., Inc. of Virginia.

The Associated General Contractors of Virginia is made up of nearly 650 general contracting firms and associated subcontractors and services.



MS. LIDA DERZOOKIAN, IBD

Interior Designer Wins Awards

• Ms. Lida Derzookian, IBD, of Design Collaborative in Alexandria, has been named a winner in the 1981 IBD/Interior Design Magazine Contract Design Competition. Ms. Derzookian won First Place in the Historical Restoration and Second Place in the Institutional competitions for the renovation and conversion of historic Fenwick Hall Plantation, Charleston, South Carolina into an alcoholic rehabilitation center. The design was completed while she was a senior designer for the Psychiatric Institutes of America, Washington, D.C.

Ms. Derzookian holds a Bachelors of Interior Design from the International Institute of Interior Design and a Bachelors degree from the University of Maryland. At Design Collaborative, an interior design/space planning firm, she concentrates on hospital and health care projects, as well as consulting on psychiatric care facilities design. Ms. Derzookian's recent projects include Hadley Memorial Hospital, Washington, D.C.; Rockingham Memorial Hospital, Harrisonburg; and Community Hospital of Roanoke Valley.

Jarrett Welding Company

Steel Fabricators—Welding, All Types
Warehouse of Steel

COMMERCIAL—INDUSTRIAL

Phone 793-3717

954 Whitmell Street—Danville, Virginia 24541



Armco Building Systems

S. Lewis Lionberger Co.

"... your full service commercial
building contractor ..."



P. O. Box 4217
2714 Roanoke Avenue, S.W.

Telephone 342-8984
ROANOKE, VA 24015



**Tom Shuman
Paint & Repaint
Company**

Dial (804) 823-5402

P.O. Box 107
Batesville, Va. 22924

**AL-STEEL
FABRICATORS, INC.**

18th St. & Cleveland Ave
ROANOKE, VIRGINIA
Phone 344-6111

STRUCTURAL & MISCELLANEOUS

STEEL & ALUMINUM

FABRICATION

Send us your miscellaneous
fabrication inquiries

**Francis Reed
Painting & Wallpaper
Contractor**

Commercial—Residential

Dial 703-338-7438

Route 1, Box 233
Hamilton, VA 22068

**MILTON
Electric Service Inc.**

Electrical Contractors

INDUSTRIAL—COMMERCIAL—RESIDENTIAL
NEW INSTALLATIONS—REPAIRS

Call 744-6680 or 989-0579

5245 Overland Dr., SW
Roanoke, Va.




Virginia is for lovers.

to tell the Virginia Story

DeHART TILE, INC.

St. Reg. #10216

Custom Tile Work Commercial—Residential—Industrial
CERAMIC—MARBLE—STONE—TERRAZZO—QUARRY

P.O. Box 2376 CHRISTIANSBURG, VA. 24073 Phone 382-3271

Lemmon Transport Company, Inc.

Bulk Distribution Specialist • Liquids—Dry Bulk
Customized Service—Intermodal Facilities
Corporate Office: Marion, Va. • 703-783-7261

Galax Plumbing and Heating Co., Inc.

Plumbing and Heating Contractors

COMMERCIAL—RESIDENTIAL—INDUSTRIAL

1000 South Main St.

Phone (703) 236-6146

P.O. Box 1039

Galax, Va. 24333

**John W. Daniel & Company
Inc.**



General Contractors

St. Reg. #2029

Telephone 792-1111

P. O. Box 1628, Danville, Virginia 24541

**K & L PLUMBING & HEATING
CO.**

St. Reg. #10272

Plumbing Contractors

COMMERCIAL — INDUSTRIAL

Phone 804-622-1837

3119 Beachmont Avenue, Norfolk, Va.

R. E. Lee Electric Co., Inc.

Electrical Distribution

UNDERGROUND — OVERHEAD — INSIDE

FLOODLIGHTING

8207 Backlick Rd.

Phone 703-550-7500

NEWINGTON, VA 22122

INDEX TO ADVERTISERS

—A—	
Acorn Construction Co. Ltd.	8
Adams Painting Corp.	63
H. R. Adkins Store	66
Air Movers, Inc.	28
Al-Steel Fabricators, Inc.	69
American Wood Crafters & Joiners	30
Area Landscaping, Inc.	63
—B—	
Bass Construction Co., Inc.	63
Jack Bays, Inc.	28
Baughan Construction Co., Inc.	9
The Belden Brick Co.	71
Binswanger Glass Co.	4
Bircherd Dairy, Inc.	34
H. T. Bowling, Inc.	35
W. W. Boxley & Co.	34
Alex. Brown & Sons	28
Bryant-Durham Electric Co., Inc.	62
Buckingham-Virginia State Corp.	71
—C—	
C & P Air Conditioning Co., Inc.	8
Glennie R. Campbell Co.	63
Candlelit Interiors	44
Capital Masonry Corp.	22
C. L. Carter Heating & Air Conditioning Co.	24
The Ceiling & Floor Shop	49
Ceramic Tile of Florida, Inc.	9
Charlottesville Aquatics	44
John D. Clayborne, Inc.	60
Cochran Construction Co.	38
Conquest, Moncure & Dunn, Inc.	56
Cornell & Waldbauer	22
Bill Costello Landscaping & Tree Care, Inc.	6
S. B. Cox, Inc.	35
—D—	
John W. Daniel & Co., Inc.	69
DeHart Tile, Inc.	69
Dodd's, Inc.	35
Dominion Steel Erectors, Inc.	4
Douglas Aquatics, Inc.	62
Dover Elevator Co.	27
Dujai's Carry Out	66
—E—	
F. W. Emerson Sr., Masonry Contractor	10
—F—	
The Farmers Bank	30
Fendley Floor & Ceiling, Inc.	68
Festival Flags, Ltd.	18



**LANDSCAPE
DESIGNERS & CONTRACTORS**
320-7798—RICHMOND, VA.
MasterCard & VISA Welcome

STUTZMAN CONSTRUCTION COMPANY

Phone 426-6996

4769 Morris Neck Road, Virginia Beach, Va.

Fiberglass Engineering Co. of Manassas	10
The Fireplace Shop	44
Frazier Construction Co.	56
Froehling & Robertson, Inc.	38
Richard J. Funk Builder, Inc.	49

—G—	
Galax Plumbing & Heating Co., Inc.	69
Glass & Plastics, Inc.	35
P. C. Goodloe & Son	44
Grandview Fishing Pier	66
Gregory Construction Co., Inc.	19
—H—	

W. R. Hall, Jr.	28
Hancock-Fuqua, Inc.	52
C. F. Hardy Building Corp.	24
R. C. Hawkins Construction Co., Inc.	6
Hazzard Electrical Corp.	30
Joseph Heflin & Sons, Inc.	10
Heindl-Evans, Inc.	62
Hillegass Lighting	59
D. A. Hitt Electric	49
L. J. Hoy, Inc.	10
Humphrey Electric Co., Inc.	38
The Hutter Corp.	27
Hydraulic Service Co., Inc.	44
—I—	

Immer Drywall Co., Inc.	16
Interstate Electric Supply Co., Inc.	28
—J—	

J & S Plumbing & Heating Co.	52
J & W Landscaping, Inc.	58
JaBar Construction Co.	38
Jamestown Beach Campsites	66
Jarrett Welding Co.	68
Johnson Irrigation Corp.	22
Garmon T. Justis Jr. Professional Painting Co.	52
—K—	

K & L Plumbing & Heating Co.	69
Harold L. Keeton	49
Kempsville Building Materials, Inc.	9
Joseph Knott—Roofing Specialist	44
Koger/Air Corp.	60
Kuykendall Interiors	56
—L—	

Don Largent Roofing Co., Inc.	60
Leadbetter Construction Co.	34
R. E. Lee Electric Co., Inc.	69
R. E. Lee & Son, Inc.	18
Richard E. Lee—Electrical Contractor	34
Lemmon Transport Co., Inc.	69
S. Lewis Lionberger Co.	68
Liphart Steel Co., Inc.	18
Liskey, Inc.	27
Lone Star Industries, Inc.	22
Robert S. Lovelace Co., Inc.	62
W. A. Lynch Roofing, Inc.	59
—M—	

Robert R. Marquis, Inc.	4
Martin/Horn, Inc.	28
E. M. Martin, Inc.	16
Massaponax Sand & Gravel Corp.	59
McClure Lumber & Builders Supply Co., Inc.	18
Medical Personnel Pool	30
Midlothian Electronics	2
Leroy Miller Tile Co.	10
Miller's Drywall, Inc.	63
Milton Electric Service, Inc.	69
Mountain Lumber Co.	44

—N—	
Natkin Service Co., Inc.	63
Nichols Hardware, Inc.	30
Norandex Aluminum Building Products	38
The Northern Neck State Bank	9
—O—	

Oakes & Motley Electric Co., Inc.	63
Richard A. Oliya & Sons, Inc.	10
Ornamental Tile, Inc.	59
—P—	

Paving Contractors, Inc.	59
Payne & Payne Construction Co.	16
Penn Line Service, Inc.	9
Pittman Mechanical Contractors, Inc.	60
Pompei Tile Co., Inc.	3
Porter & Cole, Inc.	60
W. C. Powell	44
Princess Anne Plumbing & Electrical Suppliers, Inc.	58
—R—	

Francis Reed—Painting & Wallpaper Contractor	69
C. F. Richmond, Inc.	24
Rosenkranz, Inc.	30
—S—	

Salasky-Sedel, Inc.	52
H. E. Satterwhite, Inc.	38
Schell Supply Corp.	38
Victor O. Schinnerer & Co., Inc.	3
Seaboard Foundations, Inc.	58
Seaboard Paint & Supply Co.	18
The Shed	22
Shoffner Industries of Virginia	56
Tom Shuman Paint & Repair Co.	69
Leonard Smith Sheet Metal & Roofing, Inc.	34
Dwight Snead Landscaping & Paving Co.	28
Sneed's Nursery & Garden Center	70
Southern Waterproofing & Concrete Co., Inc.	9
Southside Bank	22
Governor Spottswood Motel	66
Stutzman Construction Co.	70
Superior Paving Corp.	16
—T—	

James L. Thompson Plaster Contractor	35
Werner Thompson Construction & Development Ltd.	2
Q. M. Tomlinson, Inc.	62
Troxell Drywall Co.	2
—U—	

Nick Ulisse, Inc.	38
—V—	

Valley of Virginia Milk Producers Co-op Ass'n.	52
Varina Refrigeration Service, Inc.	22
Varney Electric Co., Inc.	22
Virginia Asphalt Ass'n., Inc.	2
Virginia Pilot Ass'n.	27
Virginia Sprinkler Co., Inc.	6
—W—	

Ann Walker Creative Interiors	52
Ward's Volkswagen, Inc.	44
Warwick Plumbing & Heating Corp.	34
Weller Tile & Mosaics, Inc.	24
West End Fabricators, Inc.	22
West Sand & Gravel Co., Inc.	6
Williams Construction Co.	68
Woodbridge Glass Co.	6
Worsham Sprinkler Co., Inc.	52
C. W. Wright Construction Co., Inc.	60
John P. Wright Construction	59
—Z—	

Zonolite Div., W. R. Grace & Co.	28
----------------------------------	----

... IN SIZE

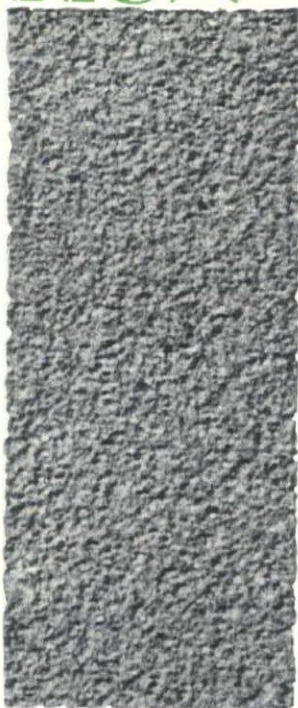
COLOR

TEXTURE

TRADITION

*Belden
Brick Measures
Up....*

TRADI-
TION



1885-1981

Since 1885, BELDEN has been in the business of manufacturing brick. It has been a labor of love, steeped in a tradition of quality. Today, BELDEN provides the architect with more colors, more sizes, and more textures. A selection of over 200 variations for virtually unlimited choice. That's why so many creative architects call on BELDEN.

Your BELDEN Dealer will show you the facts in the form of samples, or write us direct for a catalog to Box 910, Canton, Ohio 44701.

THE **Belden**
Brick
COMPANY



Outside Inside.

Genuine
Buckingham Slate®
is the natural
balance between
architecture and nature



VCU Girls' Dormitory Va. Commonwealth University
Architect: Lee, King, & Poole



Interior imagination! Add nature's own warmth with the rich, natural texture of Buckingham Slate®. Result—smart contemporary design endowed with timeless dignity and enduring traditional values. Pleasing, comfortable beauty!

Flair, too. The floating airiness of stairs in slate is just one challenging design-in-slate idea!

Write or call for information or see our catalogs in Sweet's Architectural File or B.S.I. Stone Catalog.



Buckingham Slate®

Buckingham-Virginia Slate Corporation
4110 Fitzhugh Avenue, Richmond, Virginia 23230
Telephone: 804/355-4351

(Above and right) Woody's Funeral Home, Parham Chapel, Richmond, Va.
Architect: Ballou and Justice • Photos: Garber-Huffman