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JOURNAL OF THE VIRGINIA SOCIETY OF THE AMERICAN INSTITUTE OF ARCHITECTS

MAY/JUNE 1986



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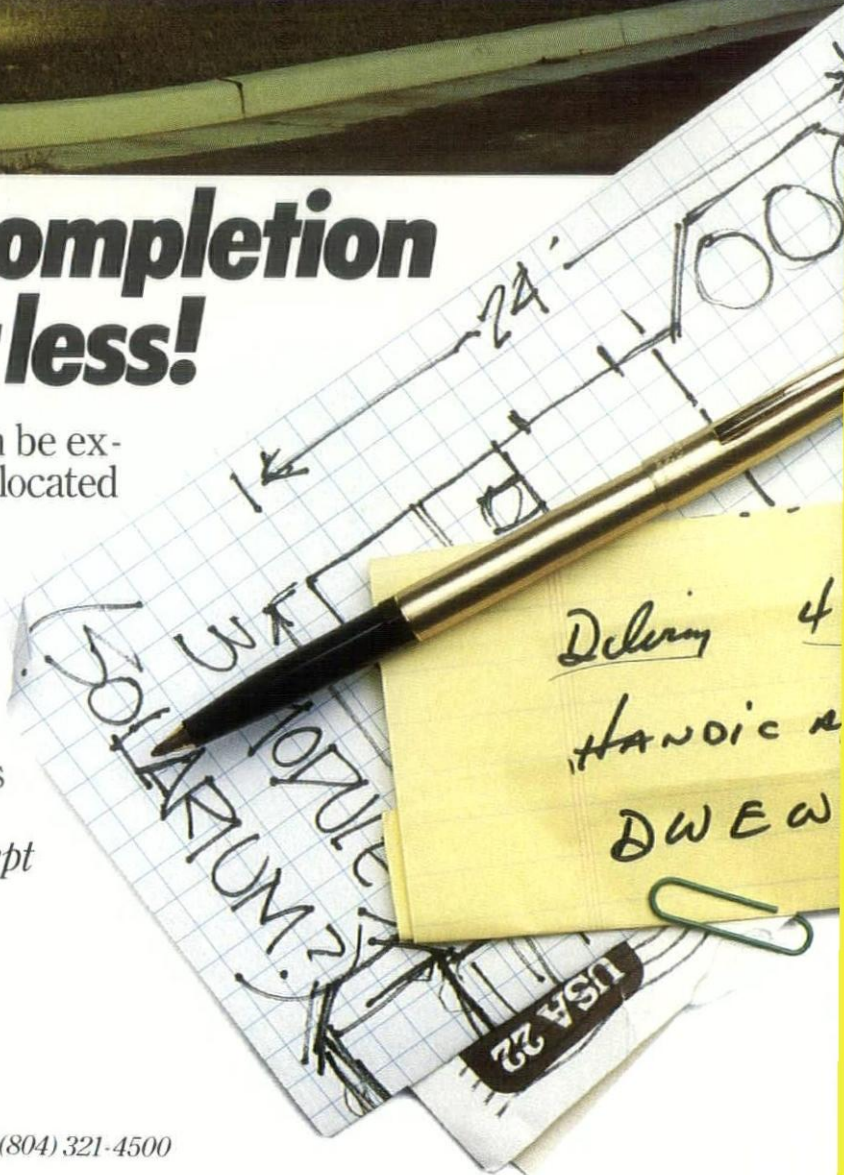
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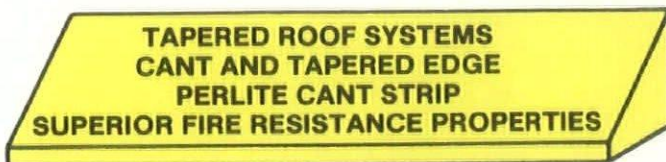
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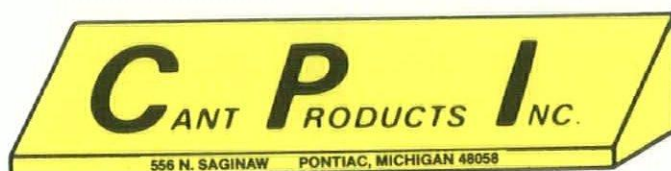
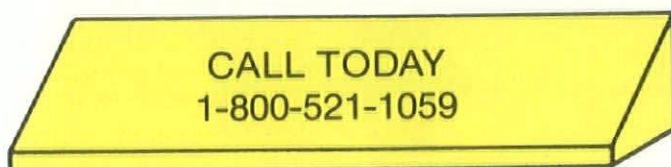
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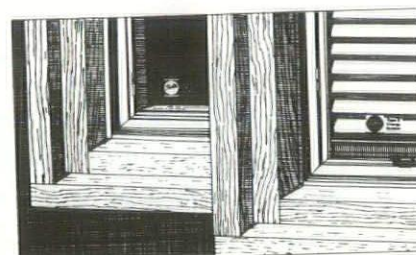
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MAY/JUNE 1986

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Volume 108—Number 3

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

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A. J. Davis, AIA

COVER

On our cover is a detail of the Virginia Power Northern Division Headquarters in Fairfax. The project is featured, starting on page 21 of this issue, by Ward/Hall Associates, AIA. (Cover photo by Robert Rathe)

"VIRGINIA RECORD (ISSN-0042-6768) is published bi-monthly for \$12.50 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. Drawer 2-Y, Richmond, VA 23205."

architectonica

'Superduper'

I am privileged every day to be able to watch the results of an expert construction superintendent at work. Next door to our office in Ballston and right out our windows, Donohoe Construction Co. is building a high-rise motel. It is a marvel of pre-planned efficiency. Like the Postal Service-of-Old, neither rain, nor sleet, nor darkness of night will sway this operation from its Progress Schedule.

The motel site is very tight, and there is an operating office building-whose parking lot is being used as the location for a shared parking structure. There are parking slots which have to be kept open. No square foot of either ground or newly-poured slab goes un-used. Material gets shifted around daily from one spot to another in order to further the work. The

several subcontractors are moved about as by a choreographer. Even the tall crane so necessary to today's construction site has been relocated from its starting position. Night work was the rule in the beginning to get the job organized and moving. Concrete is poured and masonry laid behind billowing polyethylene sheeting, regardless of the outside temperature. The floors appear like magic, one after the other. I counted seven floors shored at once last week.

I can watch the workmens' faces as they go about their tasks, and measure their level of attention. There is no slacking off of effort, no dogging the job. These crews seem to sense that they are part of a class act. It's much like the elan with which an aircraft carrier deck crew works, compounded of both pride in the job and self interest. These guys work for good wages, and Donohoe is getting its money's worth. So is the owner, in turn. His motel will be open and serving tourists this summer.

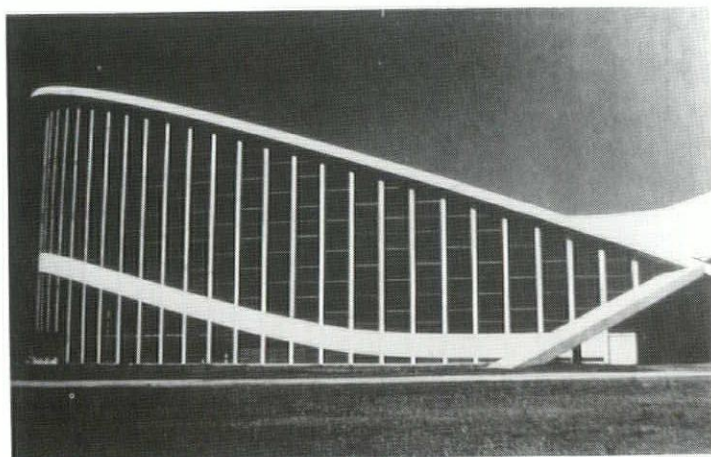
It's not all the job Superintendent's doing, of course. There's an inside office man on this job whose hand is visible and who also is very competent. There are no apparent delays in scheduling men and material in and out of this job. It is a treat to watch this clock-work operation.

I have not yet met either Superintendent or Project Manager, nor has our firm ever had a job built by Donohoe. If Donohoe ever reads this paean (if there is still a Donohoe in the company), he should recognize the truth that by their works shall ye know them.

It takes more than a yearning to make lots of money to generate the kind of performance we witness here daily. One must get into the spirit of the action: to produce the Most/Best/Fastest/Best-crafted/Cleanest/Most-profitable/Safest/Handsome/Strongest Whatever. In this case, I am



I watched the Watergate in Foggy Bottom rise floor-by-intricate floor. Now, *that* was a job to turn a Superintendent gray!

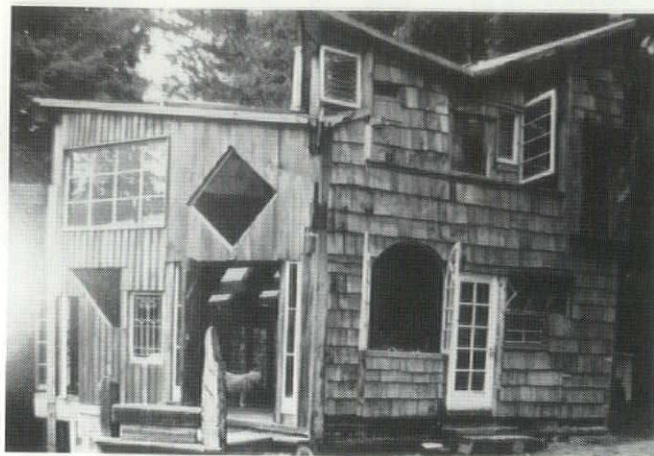


Nowicki's '53 N.C. State Fair Pavilion in Raleigh, with its then novel cable-supported roof structure. It took a great Superintendent to make it work.

watching the work of a guy who is very proud of his skills at marshalling a construction job. It's as entertaining to me as watching Fred Astaire do his thing.

Some contractors make their living finding contradictions in specs, arguing nits, or preying on contract oversights. Compared with the personal satisfaction of a creative job well done, such as this Donohoe crowd displays, the self image of the loophole-and-litigation boys has to suffer.

So, cheers for the Donohoes of this world, be they large or small. Happily, we have one on one of our projects right now, but we would never tell him so until after the job is complete!



This is what happens when there isn't a good Superintendent on-the-job.

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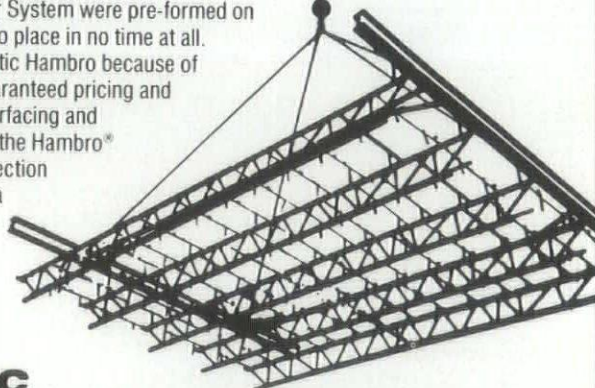
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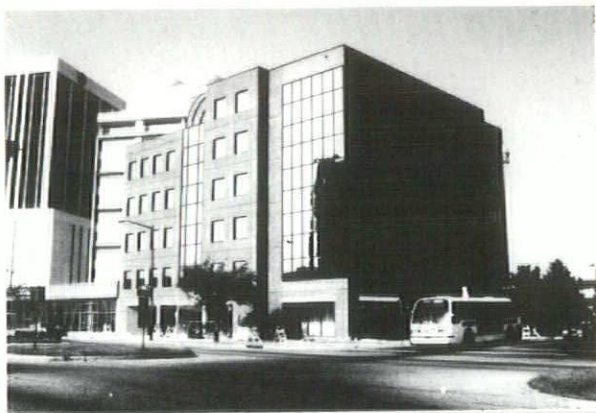
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<< COMMENTARY >>

by Marvin J. Cantor, AIA

Hedonism vs. Functionalism in Single Family Dwelling Design

A disturbing trend in suburban single family housing design has developed. The ugly head of hedonism has overshadowed the age old desires of functionalism and aesthetics. The housing developers are pandering to the user's slothful desires . . . and making no bones about it either! What is happening that's caused my fur to fly? I'll say it in just four words . . . the Master Bedroom Suite!!

A house was considered "complete" when it had a functional kitchen, a living room for family entertainment, a number of "reasonably" sized bedrooms, and functional, usable, reasonably sized bathrooms in a number required to comfortably serve the house in question. Then came the family room—a superfluous addition, but still not exactly in the realm of excess. A den or library followed, and suburbanites were now reaching for the "mansion aristocratic" embellishments.

And then came the Master Bedroom Suite! A room larger than some couples' first houses

purchased at the start of their careers. So large did this room become, that it was then divided into a sitting room and sleeping area—this so one partner could stay awake reading while the other slept in blissful peace without being disturbed . . . and both within "touching distance" if comfort and reassurance were required at a moment's notice. With no further expansion of the bedroom deemed possible, the bathroom was next. Even though the bedroom was now "as large as a house," it was still not large enough to dress in. A dressing room, next to the bathroom was required, with closets, each the size of a den or library, needed to house one's clothes.

No longer suitable to have a bathroom separate from the other dwelling's occupants (even though they were your own flesh and blood in most cases), it was now deemed essential to have bathroom facilities for him and for her! A whirlpool tub or spa for her (and/or him), and a sit-down, move around shower for him (and/or her). A bidet to complement the water closet. Separate lavatories—hanging ferns—skylights to the sky, and glazed walls to the gardens—one need never leave the confines of one's Master Bedroom suite, if meals were brought in!

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VIRGINIA SOCIETY AIA NEWS

Three Virginia Architects Advanced to AIA College of Fellows

The American Institute of Architects has advanced three Virginia Society AIA members to the Institute's prestigious College of Fellows, in recognition of their notable contributions to the profession.

Samuel A. "Pete" Anderson III, of Glave Newman Anderson Architects, Richmond, M. Jack Rinehart, Jr., Charlottesville, and Frederic H. Cox, Jr. of Marcellus Wright Cox and Smith, Richmond, were three of the 84 Fellows selected from throughout the country to receive this distinction.

Fellowship in AIA is a lifetime honor bestowed upon members who have made significant contributions to the advancement of the profession in areas such as architectural practice, construction, design, education, government or industry, historic preservation, literature, public service, research, or urban design. Advancement to the College of Fellows is the highest honor the AIA can bestow on any member, with the exception of the Gold Medal, which is an international award. Fellows are entitled to designate "FAIA" following their names.

SAMUEL A. "PETE" ANDERSON III

While president of the James River Chapter AIA, Anderson organized the state's first successful continuing education program. He also set up the first statewide long-range planning program while president of the Virginia Society AIA.

Through Pete's efforts as a national AIA director, he could be credited as the "Father" of the newly created AIA Region of the Virginias (to take effect in 1986). He also served for three years as the only architect board member of the Association of Student Chapters, AIA. In addition, he has written and presented major progressive professional concepts which have defined new directions in 1) historic preservation, 2) housing for the aging, and 3) interior design.

As Regional Director for the Mid-Atlantic Region of AIA, Mr. Anderson represented architects from Virginia, Delaware, West Virginia, Maryland and D.C. He has been active on several national AIA committees, including his most recent tenure on the AIA Ethics Task Force.

He has also served as a director on the boards of the Central Richmond Association, the United Way of Virginia and YMCA of Metropolitan Richmond. He is a former president of the Richmond Urban League (1978), the Central Virginia Housing Development Corporation (1975-76), and the Community Housing and Design Center in Richmond (1972-73).

As an architect, Anderson developed master plans for Virginia Commonwealth University and the Medical College of Virginia. He also developed master plans for Union Theological Seminary, St. Catherine's School, St. Christo-

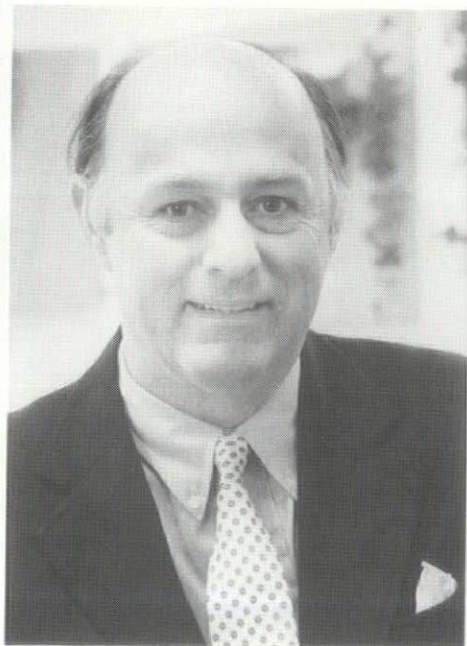
pher's School, and two Girl Scout Camps. His institutional and commercial projects have included the restoration of Monumental Church, the renovation and expansion of the Valentine Museum, seven stores for Best Products, the renovation of the state's Department of Taxation, the Surry County Center, the Hopewell Community Center, three branches for the YMCA of Metropolitan Richmond, First United Presbyterian Church, Westham Green condominiums, and others.

Anderson is known for his work with private residences both here and abroad. His design for the renovation of Les Breguières, a complex of 18th and 19th century farm buildings in Southern France, received many awards. Anderson has been a visiting lecturer at the University of Pennsylvania, and the University of London's Bartlett School of Architecture, and the University of Virginia.

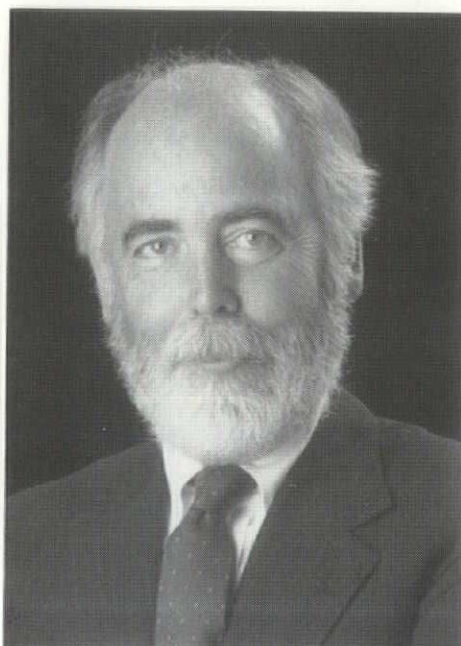
Anderson received his Bachelor of Arts degree from the University of Virginia in 1955, and a Bachelor of Architecture from the University of Pennsylvania in 1961. He was the 1985 recipient of VSAIA's highest honor, the William C. Noland Award.

FREDERIC H. COX, JR.

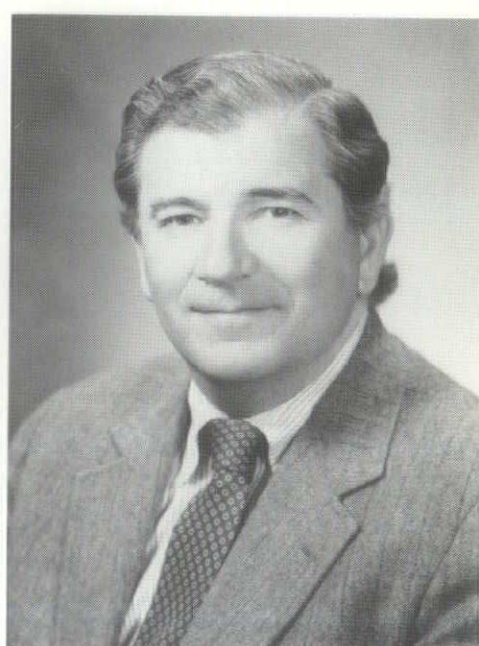
Cox, a principle of the architectural firm of Marcellus Wright Cox and Smith, has highlighted his architectural career by focusing on historic



M. JACK RINEHART, JR., FAIA



SAMUEL A. "PETE" ANDERSON III, FAIA



FREDERIC H. COX, JR., FAIA

preservation and public service. He has been the driving force behind much of Richmond's historic preservation for the past 20 years. While he is highly regarded as an architectural expert in historic preservation and adaptive reuse, his greatest contribution has been his ability to persuade the business community and civic leaders that preservation can lead to economic development and urban renewal on a significant scale.

His restoration of Loew's Theatre into Richmond's Center for the Performing Arts led directly to development by James W. Rouse of the Sixth Street Marketplace. That marketplace has been constructed around the historic "Blues Armory"; Mr. Cox did the schematic design and development for the Armory project as well. The Lowe's restoration has been a catalyst for urban renewal in downtown Richmond and has assisted in revitalizing a decaying city core.

For more than 10 years, Mr. Cox has been a leader of the Historic Richmond Foundation, a non-profit organization responsible for the preservation and restoration of hundreds of endangered buildings. He has also been responsible for the entire restoration of the national landmark campus of Washington and Lee University, an award-winning park built around the

restoration of historic canal locks and an entire city block in the central business district of downtown Richmond.

Mr. Cox has also made a significant contribution to his community through his civic involvement. He has held an unusual number of public service positions in leadership capacities in areas ranging from political action to architecture. Perhaps Mr. Cox's most noteworthy public service was his leadership of the successful 1964 Richmond voter registration drive during Virginia's troubled Civil Rights era, for which he was given the national "Young Jaycee of the Year" award in 1965. He was also part of the Commission that created and developed Richmond's urban university, Virginia Commonwealth University, and lobbied for its location in an historic and consequently restored part of the city.

He has been president and chairman of the Historic Richmond Foundation and chairman of the Virginia Historic Landmarks Commission. He has also been president of the Federated Arts Council of Richmond, the second such organization in the U.S.; secretary of the Richmond Symphony; and trustee of the United Givers Fund, and the Valentine Museum, among others.

M. JACK RINEHART, JR.
Rinehart developed his Charlottesville firm in 1969 and has combined his architectural career with community service and service to the profession of architecture. He served as a member of the Albemarle County Planning Commission and currently is the chairman of the Downtown Board of Architectural Review. In 1979 he designed the exhibit that represented Charlottesville when it was selected as an All American City. He has been a member of numerous AIA boards and committees, including the State Board and is currently the president of the Charlottesville/Albemarle Section.

As a designer and principal, Rinehart has been involved in design projects receiving local, state, and national recognition. His firm has won nine design awards including one from the Middle Atlantic Region of the American Institute of Architects. Some of his firm's local (Charlottesville) projects include the headquarters of United Virginia Bank, the conversion of the Downtown Post Office to the Jefferson-Madison Regional Library, the conversion of the old downtown National Guard Armory to the Downtown Recreation Center, and the recently completed clubhouse for the Birdwood Golf Course at the University of Virginia.

The new Virginia Fellows will be invested into the AIA College of Fellows on June 8 at the 1986 National Convention in San Antonio.

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CONSTRUCTION NEWS



Architect Selected for New Fredericksburg Fire Station

DePasquale & Associates, a Richmond architectural firm, has been selected for the design of Fredericksburg's new Fire Station, to be constructed in the area of the Route 95 and Route 3 interchange.



The facility will incorporate full-time firefighters, space for volunteer firefighters, and a Police substation. Estimated to cost \$700,000.00, the contemporary design harmoniously reflects the historic fabric of the Fredericksburg community and it will be named in honor of Samuel E. Perry's many years of volunteer service.



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Pavilion Office Complex Is Under Way

Construction has begun on the new Gibson Pavilion Office Complex in Virginia Beach. The building will be located on 19th Street close to the Virginia Beach Pavilion. The 3100 square foot building is a three-story structure of brick and glass. Incorporated in the design is a three-story atrium space. The complex was designed by the architectural firm of Dills • Ainscough • Duff • Partnership of Virginia Beach.

CHAPTER NEWS

JAMES RIVER CHAPTER

CHARLOTTESVILLE-ALBEMARLE SECTION

Exhibit Successful

The Charlottesville-Albemarle Section of the James River Chapter of the American Institute of Architects displayed an exhibit "Decade of Design — Architecture" at the Second Street Gallery in the McGuffey Art Center in Charlottesville from 10 January through 4 February. The exhibit was supported by a grant from the National Endowment of the Arts in Washington, D.C. and made possible through the cooperation of the Forum for Architecture in Washington, D.C. Its purpose was "to assist in developing public awareness and appreciation of architectural design."

The exhibition was enormously successful and received an audience of fourteen hundred people in only three and one-half weeks. The show featured color photographs, drawings and models of public and private buildings constructed from 1976 to 1986 by 31 architects practicing in the Charlottesville/Albemarle area.

The exhibiting architects practice in an area mindful of its rich historical heritage and their works reflect the best of classical modernism. In Ruth Latta's words, "They enlarge upon it, improve upon it, and endow it with warmth and soul."

Though architecture is the most available and public of all the arts and the one that creates our built environment, it may not generally be regarded as art form. It was to promote a wider public awareness of architecture that "Decade of Excellence — Architecture" was conceived and implemented.

NORTHERN VIRGINIA CHAPTER

Past Chapter President To Head National Board

Linda Michael, AIA has been appointed president of the board of trustees of National Hospital for Orthopaedics and Rehabilitation, 2455 Army Navy Drive, Arlington.

She is a graduate of the University of Virginia School of Architecture, with a doctorate from Catholic University, and is an architect with the firm of Michael and Michael, Inc. of Alexandria.

Ms. Michael is a past president (1976) of the Northern Virginia Chapter, AIA.

Nestleroth and Four Others Named Associates

David E. Nestleroth, AIA of the Washington, DC office of Smith Segreti Tepper McMahon Harned Architects and Planners, P.C. has been promoted to Associate in the firm. Nestleroth is a member of the Northern Virginia Chapter, AIA.

Other firm members promoted to Associate were announced by the Partners as follows: Han-Hsing Ho, AIA and Richard W. Gessner of the firm's Washington, DC office; and Johnnie E. Hackett and Anne T. Marlow of the Vienna, Virginia office.

TIDEWATER VIRGINIA CHAPTER

Ms. Miles Elected

Stephanie L. Miles has been elected Secretary of the Tidewater Chapter — Society of Architectural Administrators. Mrs. Miles is employed as Secretary of Dills • Ainscough • Duff • Partnership in Virginia Beach.

INFORMATION AND SERVICES

R/UDAT Achievements Documented In 'Urban Design in Action'

The history, theory and development of The American Institute of Architects' problem-solving Regional/Urban Design Assistance Teams (R/UDAT) program is outlined in a new 253-page book, *Urban Design in Action*, the first in a series of AIA publications this year.

Richly illustrated with hundreds of photographs and drawings, *Urban Design in Action* documents achievements of the AIA's 19-year-old R/UDAT program to give architects, planners and other readers a better understanding of successful approaches to urban revitalization.

R/UDAT, organized and supervised by the AIA Urban Design and Planning Committee, is a public service program that sends multidisciplinary teams of volunteers to aid communities requesting help with urban design-related problems. Since its inception in 1967, the program has assisted more than 90 U.S. cities and towns, plus one Canadian city.

Last June, R/UDAT received a special citation from President Reagan in recognition of its outstanding private sector initiative to help solve community problems.

The program received international attention last November when Britain's Prince Charles met at the AIA Building with Baltimore, Md. and Savannah, Ga. community leaders and R/UDAT leaders to learn about successful U.S. urban revitalization and neighborhood preservation efforts. Prince Charles recommended a continuing dialogue between R/UDAT and the Royal Institute of British Architects in solving urban problems.

The R/UDAT process, from a community's initial request for assistance to the team's recommen-

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ditions, is outlined in *Urban Design in Action*. The book's first section not only explains how R/UDAT works but describes the structure and form of American cities, the impact of urban design on architectural and planning processes, how government and the private sector work together to revitalize cities and the advantages of urban design education in architecture and planning schools.

The second section provides case studies of typical R/UDAT visits to communities including: Denver, Colorado; Wilson, North Carolina; Lynn, Massachusetts; Birmingham, Alabama; Lincoln, Nebraska; Olympia, Washington; and Healdsburg, California.

The book, made possible by a grant from the Design Arts Program of the National Endowment for the Arts, was edited by Peter Batchelor, AIA, professor of urban design at North Carolina State University, Raleigh, and David Lewis, FAIA, Pittsburgh urban designer/architect—both leaders in the R/UDAT program. *Urban Design in Action* is dedicated to the memory of Jules Gregory, FAIA, the late Princeton (N.J.) architect/urban designer whose leadership helped inspire R/UDAT's success.

The softcover book is available at the AIA bookstore (order number R354) at \$24 for AIA members; \$25 for nonmembers. For information, call Marianne Bohr, AIA Press, (202) 626-7585.

New AIA Publication Guides Architects on Designing for America's Aging Population

Ways that design professionals can respond to the special needs of America's rapidly growing elderly population are examined in The American Institute of Architects' newest publication, *Design for Aging: An Architect's Guide*.

The 179-page book, written by the AIA Foundation and published by the AIA Press, explores the physical, psychological and social realities of aging and the design issues that architects face in responding to those realities.

The first part outlines a design approach that addresses the unique needs of the 30 million Americans who will be over 65 by the year 2000. The second part identifies critical site, space, use, and design considerations for five facility types; and the final section provides a detailed glossary that defines and discusses aging-specific architectural issues.

Described as "a practical guide for architects," the publication answers critical questions on how to design for aging: Who are the aging? How specialized is this market? What are the older citizens' environmental needs?

Design for Aging, made possible through grants from the National Endowment for the Arts and the Department of Health and Human Services/ Administration on Aging, includes more than 80 drawings and photographs along with current codes and standards. The hardcover book is available from the AIA bookstore (order #R347) at \$28 for AIA members; \$40 for nonmembers.

PERSONNEL AND OFFICE ACTIVITIES



Janet Kavale



Nina Tamilio



Eliel C. Alfon

Staff Additions at Pierce Architecture

Eliel C. Alfon, Janet Kavale, and Nina Tamilio have recently joined the staff of Pierce Architecture. These three professionals possess unique and complementary talents which contribute to the total team philosophy of the firm, and expand the services available to clients.

Eliel C. Alfon, originally from the Philippines, has joined the firm as a design architect, and is currently involved in the design of an expansion of the Iwo Jima Quality Inn Motel in Arlington. He graduated from the University of Nebraska with a Master's degree in Architecture in 1984, and he brings to Pierce Architecture an impressive list of awards and honors that he received for his design work. Recently, he was named top prize winner in the ASCA/PCI National Competition with his "Peristyle and Portal" entry for the Chicago World's Fair of 1992.

Janet Kavale recently relocated to Virginia from California where she studied interior design at U.C.L.A. She has an extensive background in commercial interior design, programming and space planning, and has designed for several large companies located in the western half of the United States. Ms. Kavale spent two years traveling Western Europe and the South Pacific to supplement her education in design.

Crahan Joins Dewberry & Davis As Associate

Martin E. Crahan has joined Dewberry & Davis as an Associate of the firm. Mr. Crahan will be branch manager for the firm's new Manassas office, scheduled to open this spring. In this position, Mr. Crahan will coordinate residential, commercial, and industrial planning and land development projects in Prince William County.

Mr. Crahan was formerly Director of Development Administration for Prince William County, where he was responsible for the review and inspection of all development occurring in this rapidly urbanizing county in the Washington metropolitan area. Prior to this position, Mr. Crahan served as Director of Community Development for Fairfax County, where he was responsible for overall management of the county's Community Development Program, including public facility construction projects, large-scale redevelopment, and housing reha-

bilitation. He has also served as Director of Housing and Community Development for the City of Alexandria.

Nina Tamilio has recently relocated from the Boston area where she studied business management. Her most recent work experience involved public relations assistance for a large law firm in New England. Ms. Tamilio functions as administrative assistant and provides marketing support for the staff.

All three new employees are versatile in the applications and capabilities of the CADD system. The CADD (Computer Aided Drafting) system is a powerful tool for producing architectural drawings of all kinds. Pierce Architecture uses CADD for the organizational design and facility planning of projects, and delivers pre-programming, complete forecasting, and space planning information through this vehicle. Use of this system produces greater accuracy and more expedient results in construction documents.

Pierce Architecture recently designed the rehabilitation work for the Presidential Gardens Apartments in Alexandria. This project consists of 21 buildings housing 395 apartment units, and will be completed in late 1986. The firm has received much recognition for the dramatic results achieved in renovating this historic apartment complex.

Mr. Crahan holds a Bachelor of Architecture from Ohio State University and has completed coursework toward a Masters degree in Urban Planning from the University of Illinois. He is a member of the American Planning Association; the Virginia Building Officials Association; Building Officials and Code Administrators, International; the Alexandria Community Development Block Grant Committee; and the City of Alexandria Development Corporation.

A full service engineering, architecture, planning, and surveying firm, Dewberry & Davis is headquartered in Fairfax. The firm maintains 10 branch offices throughout the mid-Atlantic states.

Wright Named Firm's First Associate

Hanbury Evans Newill Viattas and Company, a Hampton Roads-based architecture, planning and interior design firm, has named Jane Cady Wright, AIA, as the firm's first associate. HENV is a 40-person firm formed by the 1985 merger of Norfolk-based Hanbury & Company and Peninsula-based Evans Hudson Viattas Architects, Inc.

The promotion of Ms. Wright to the position of Associate is in recognition of her outstanding professional and civic leadership.

Ms. Wright was graduated from VPI & SU School of Architecture and has been an architectural project manager with the firm for the past two years. She was previously employed with the Norfolk District, Corps of Engineers, and with architectural firms in Roanoke and Norfolk. Ms. Wright was project manager for renovations and additions to the Ballentime Home for the Elderly and the Tradewinds Building in Norfolk, and most recently, for the College Services Building Design Study for Tidewater Community College, Portsmouth.

She is an active member of the Tidewater Chapter, American Institute of Architects, the Junior League of Norfolk and Virginia Beach, and First Presbyterian Church, Norfolk. Her community



Jane Cady Wright, AIA

involvement includes: chairman of the Ghent Square Architectural Review Committee; member of the Virginia Symphony Projects Council; and member of the 1985 Harborfest Committee.

As an associate, Ms. Wright will participate directly in overall firm management activities in addition to her ongoing project leadership role.



Susan Morrison

Susan Morrison Joins Shriver and Holland

Susan Morrison has joined Shriver and Holland Associates, an architectural, planning, and interior design firm with offices in Norfolk and Virginia Beach. In her position as a senior designer at Shriver and Holland, Ms. Morrison will have responsibility for serving projects involving interior architecture and design, space planning, and tenant enticement.

Ms. Morrison, a Norfolk native, holds Bachelor's and Master's degrees from Simmons College and Bachelors' degrees in Fine Arts and Architecture from the Rhode Island School of Design. Before joining Shriver and Holland Associates, she worked as a senior architectural designer at Swanke Hayden Connell Architects in Washington, D.C. and as a designer with M. Arthur Gensler and Associates in California. She also served as project designer for the 450,000 sq. ft. AT&T Long Lines, Eastern Regional Headquarters in Oakton, Virginia while she worked with dePolo Dunbar Inc./Kohn Pederson and Fox in New York.

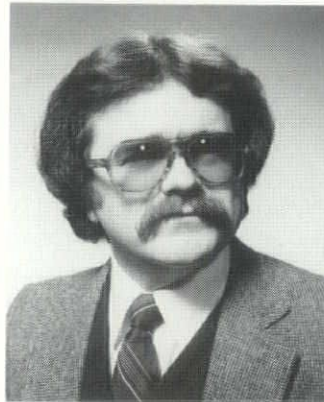
Dunbar Made Partner of Architectural Firm

Robert Washington, FAIA, Chairman of Washington Associates, announced the advancement of Arthur B. Dunbar, III, AIA to Associate of the architecture, engineering and planning firm.

A native of Rhode Island, Dunbar joined Washington Associates in 1984 as a Project Architect. Prior to his arrival, he was an Associate for the firm of Oliver, Smith & Cooke. Dunbar graduated from VPI&SU with a degree in architecture, and currently resides in Virginia Beach.

Projects that Dunbar has managed at Washington Associates include: Life Federal Operations Center, Beach Group Operations Center at NAB, Little Creek and the Work Release addition to the Chesapeake City Jail. He also manages the Washington Associates Computer Aided Drafting/Design (CADD) System.

Washington Associates was founded in 1970 and has offices in Norfolk, Richmond and Lynchburg.

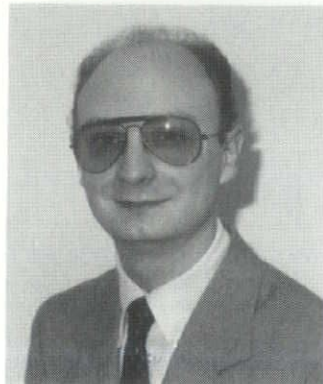


Arthur B. Dunbar, III, AIA

New Project Manager for Walsh/Ashe Associates, Inc.

Jacob V. Aftel has recently joined the firm of Walsh/Ashe Associates, Inc., a Virginia Beach Architecture, Planning and Interior Design firm, as Project Manager.

Mr. Aftel holds a Bachelor of Architecture degree from Hampton University and is in the Intern Development Program of NCARB. He was formerly a Project Manager and Computer Systems Manager with Hargrove-Brockwell Associates.



Jacob V. Aftel

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Charlottesville Firm Appoints New Partner and Opens Norfolk Office

The Charlottesville architectural firm of VMDO has appointed C. Craig Hudson, AIA, as full Partner. Mr. Hudson has opened VMDO's new office in Norfolk, where he will be the Managing Partner. Vickery Moje Drinkard Oakland, Architects has also simplified its name to VMDO for the convenience of present and future clients.

"Craig Hudson is a tremendously talented architect, both as a designer and manager, and we feel fortunate to have him as our Partner," said Lawson Drinkard, Partner of VMDO. "Opening our new office in Norfolk is the first step in expanding our services over a broader geographic area. We look forward to serving new clients in and around Norfolk."

A registered architect and graduate of the University of Virginia School of Architecture, Mr. Hudson was a founding partner of Evans Hudson Vlattas Architects, Inc., a prominent 15-person firm in Norfolk. In establishing his successful practice, Mr. Hudson managed design and planning projects for Fortune 500 companies, residential and commercial developers, educational institutions, and branches of the federal government such as the United States Coast Guard, NASA, and the Department of Defense. Past projects Mr. Hudson has completed include the corporate headquarters and conference center for BASF Fibers in Williamsburg, a master plan for the Walden Residential Planned Unit Development in York County, and a majority of the DOD installations in Tidewater.

The new Norfolk office of VMDO will be located at 503 Botetourt Street. "In the Norfolk office, we plan to do what VMDO is already doing in Charlottesville: design good architecture, develop good architects, and deliver high quality professional services without sacrificing project requirements, schedules or budgets," said Mr. Hudson.

"I was impressed with VMDO's ability to deliver both design and technical services," said Mr. Hudson. VMDO's offices in Charlottesville and Norfolk are equipped with in-house CADD systems, computerized programming, and cost



C. Craig Hudson, AIA

control software to ensure the highest quality delivery of services. "But above all, it's the people that make the firm," said Mr. Hudson, "and VMDO's staff is our best asset. It's a group of energetic, talented, and technically proficient professionals who know how to get things done."

VMDO's Charlottesville office, located at 116 Second Street, was recently renovated to accommodate an expanding staff. The 25-person architectural, interior design and planning firm, founded in 1976, won five awards for excellence in architecture last year from the James River Chapter of the American Institute of Architects. The awards were given for the Red Hill Elementary School in southern Albemarle County, the Staunton Fire Station, the Student Center at the Woodberry Forest School in Madison County, the Chatham Hall Student Center Renovation, and the Foxcroft School faculty houses and infirmary in Middleburg.

VMDO is well-known for its work in educational architecture, commercial building and historic preservation. Recent notable projects VMDO has completed include the Broadus Wood Elementary School, and the renovation of the historic Barringer House to a French Language House on the grounds of the University of Virginia in Charlottesville.

SCHOOLS OF ARCHITECTURE

University Signs Agreement With Tongji University

Virginia Tech's College of Architecture and Urban Studies (CAUS) has entered into an exchange agreement with Tongji University in Shanghai, People's Republic of China, marking the fourth such agreement made between Tech and Chinese institutions of higher learning.

The agreement calls for an active exchange of graduate students and professors in architecture, landscape architecture and planning programs and the encouragement of cooperative research efforts. During the fifth year of the exchange program, an evaluation team will review program results and make recommendations for continued interaction.

"Agreements of this kind bring richness and diversity to our program offerings and expand our network of contacts to exchange ideas on emerging issues in the profession," said CAUS Dean Charles W. Steger.

The agreement was signed by Steger and Virginia Tech President William E. Lavery and their counterparts Dai Fu-Dong, dean of the Department of Architecture, and Jing-Bo Jiang, university president.

Work on the agreement began in 1984 when three representatives of the People's Republic of China visited Tech to discuss creation of an exchange program. The Chinese delegation included Wu Yikang, counselor of science and technology at China's Washington embassy; Peng Fei Fei, second secretary of the embassy; and Dai, who was a visiting scholar at Columbia University.

Final details of the agreement were worked out in November when Steger and Frederick Krimgold, associate dean for research and extension, visited Tongji. Krimgold and Dai will oversee the program.

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NEW MEMBERS

BLUE RIDGE CHAPTER



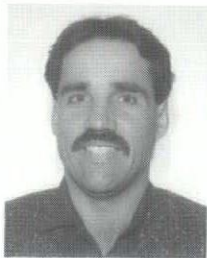
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ROGER LEE BEASLEY, AIA
With Smith & Reeves,
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Martinsville



R. ROGER CRESS, Associate
With Dewberry & Davis
Marion



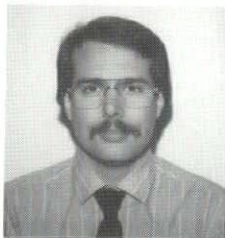
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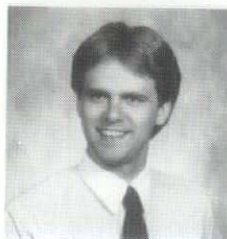
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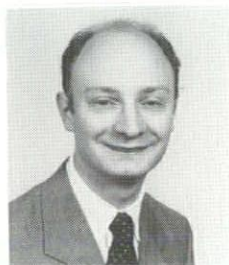
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TIDEWATER VIRGINIA CHAPTER



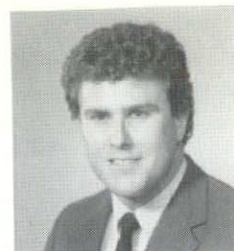
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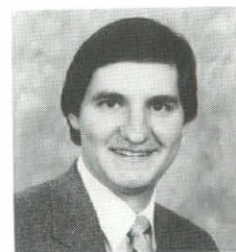
JAMES H. FELCH, AIA
With Shriver & Holland Associates
Norfolk



JAMES C. HARRIS, II, AIA
With Hargrove, Brockwell & Associates
Architects, Virginia Beach



SAMUEL M. HEDGECOCK, JR., AIA
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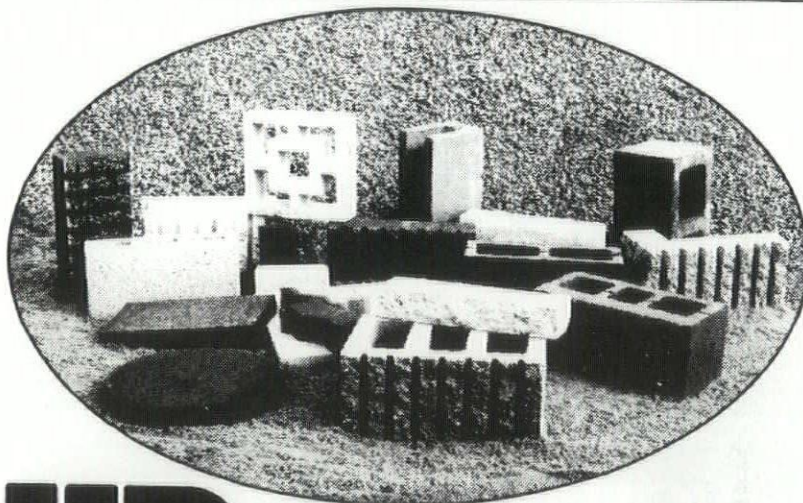
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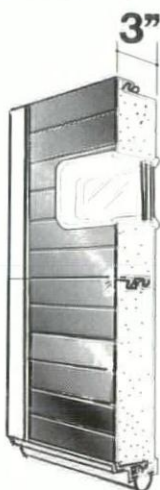
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Owner: Virginia Power • Location: Fairfax

Partner-in-Charge, G. T. Ward • Project Manager/Designer, Geoffrey G. Kimmel • Project Manager for Owner, E & C Projects Facilities • Landscape Architect & Site Engineer, Patton, Harris, Rust & Associates • Interior Designer, Ward-Hale Design Associates, Inc. • Structural Engineer, FDE, Ltd. • Mechanical/Electrical Engineer, Strickler Associates • Geotechnical Engineer, Froehling & Robertson • Field Engineering, Development Consultants Group • General Contractor, Fletcher Construction Co., Inc. • Photography, Robert Rathe.

PROJECT

A 78,000 square foot, two-story office building for use as a corporate Northern Virginia administrative headquarters on a 36.8 acre site with an existing related facility (substation). Future expansion is planned for a 24,000 square foot addition, to the east and west ends of the building. If growth conditions continue, another two-story building having approximately 50,000 square feet will be designed.

SITE

The parcel was rezoned from R-1 to PDC (Planned Development Commercial), with the rezoning process satisfying all of the space requirements

of the Fairfax Center Area Plan, which required that the project be "low intensity office . . . well set back from U.S. 50." Extensive positive negotiations took place with Fairfax County officials and neighboring landowners to accommodate the design.

The site is suburban, with abundant wooded areas. An E.Q.C. (Environmental Quality Corridor) exists in a diagonal configuration across the front portion of the site. This area has been preserved in its natural state as a refined wooded amenity. Conservation of existing vegetation was a major consideration for the entire site, with extensive retaining walls to preserve



additional natural growth. A large detention pond at the rear of the site retains water runoff. A recreational concept was established with a county-wide trail, open meadow, terrace with planter wall; in general, a park atmosphere.

PROGRAM

Design a facility that provides specialized services for normal and emergency electric operations for a company staff of 325 employees. The complex includes a company secured parking lot for 100 company cars, with a fuel island, and a separate storage shed. Also, a 150-foot spun concrete microwave pole for communications

within the company's system is incorporated into the project.

Some of the major design concepts include a functional, flexible, and energy conservative space that reflects modern construction technology and pleasant, aesthetic experiences, while using quality materials and complying with the budget restraints.

The general office space is designed as an open plan with separate departments. Most of the non-essential walls (other than atria, core or mechanical/electrical) are demountable metal

partitions, for maximum future flexibility. Also, additional power, data, and telephone outlets are available for shifting of modular furniture.

Energy conservation was a prime consideration. Overhangs were designed to eliminate direct summer sun, while allowing natural daylighting (glazing — 1" insulated — solargray). Daylighting is also achieved at the atria and second floor corridor with clerestory and skylights. The major concept for daylighting was to reduce the necessity for artificial lighting, resulting in approximately 2.0 watts/sq. ft. (light fixtures are double switched). The entire mechanical/electrical system is computer monitored by a programmable load control for energy conservation. A VHM (Ventilating Horizontal Mullion) was designed for natural ventilation should the system break down.

The use of high quality materials was necessary to ensure longevity of the building. The planned design life (prior to Phase II) of the building is approximately 10-15 years, while the actual life is mandatory at 75-100 years minimum. The exterior materials of precast concrete and glazed brick were chosen for durability. The color scheme of light gray brick at the first floor, medium gray precast at the second floor spandrel panel, and the dark gray precast at the roof parapet panel was conceived to accentuate the horizontality of the long, low building. The painted reveals were included to eliminate the monotony of the precast background, to accentuate the horizontality, as well as to differentiate the levels of the building. The stepped precast facade was designed to accentuate a strong entry condition for visitors. The free-standing arch and canopy were used as a transition from exterior to interior, as well as for functional weather cover.

A major concept of the interior plan was to minimize major circulation area. This was achieved with a large central atrium (lobby) and two small atria (east and west) with one major corridor connecting these spaces. A stair is located at each atrium for vertical circulation. The three atria serve as collectors and people organizers and provide a strong sense of orientation within the building. A light tube connects the atria and leads visitors and employees through the major circulation areas.

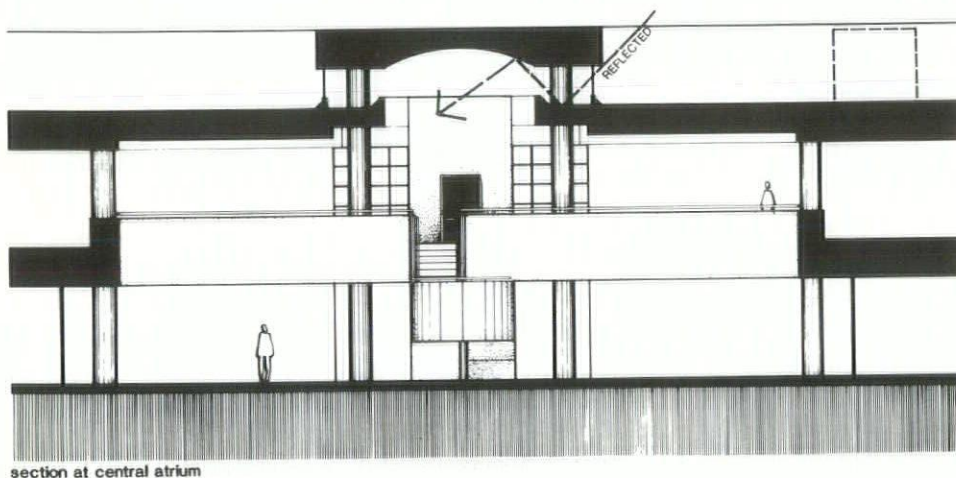
The major specialized service area of the building is the D.O.C. (Division Operations Center) with computerized control of major substations and their circuits. This space operates 24 hours a day, 365 days a year. For emergency situations, an emergency generator is connected to all systems for this area. Other support facilities to the general office space include technical laboratories, equipment storage, shop areas, reproduction facilities, and meeting/training rooms.

CONSTRUCTION CREDITS

Fletcher Construction Co., Inc. of Alexandria was general contractor, and handled foundations and concrete work.

SUBCONTRACTORS & SUPPLIERS

Also from Alexandria were: Temple Masonry, Inc., unit masonry contractor; McClary Tile, Inc., stonework contractor, flagstone pavers & ceramic tile; Nova Drywall, wall insulation, metal studs & accessories, gypsum board contractor,





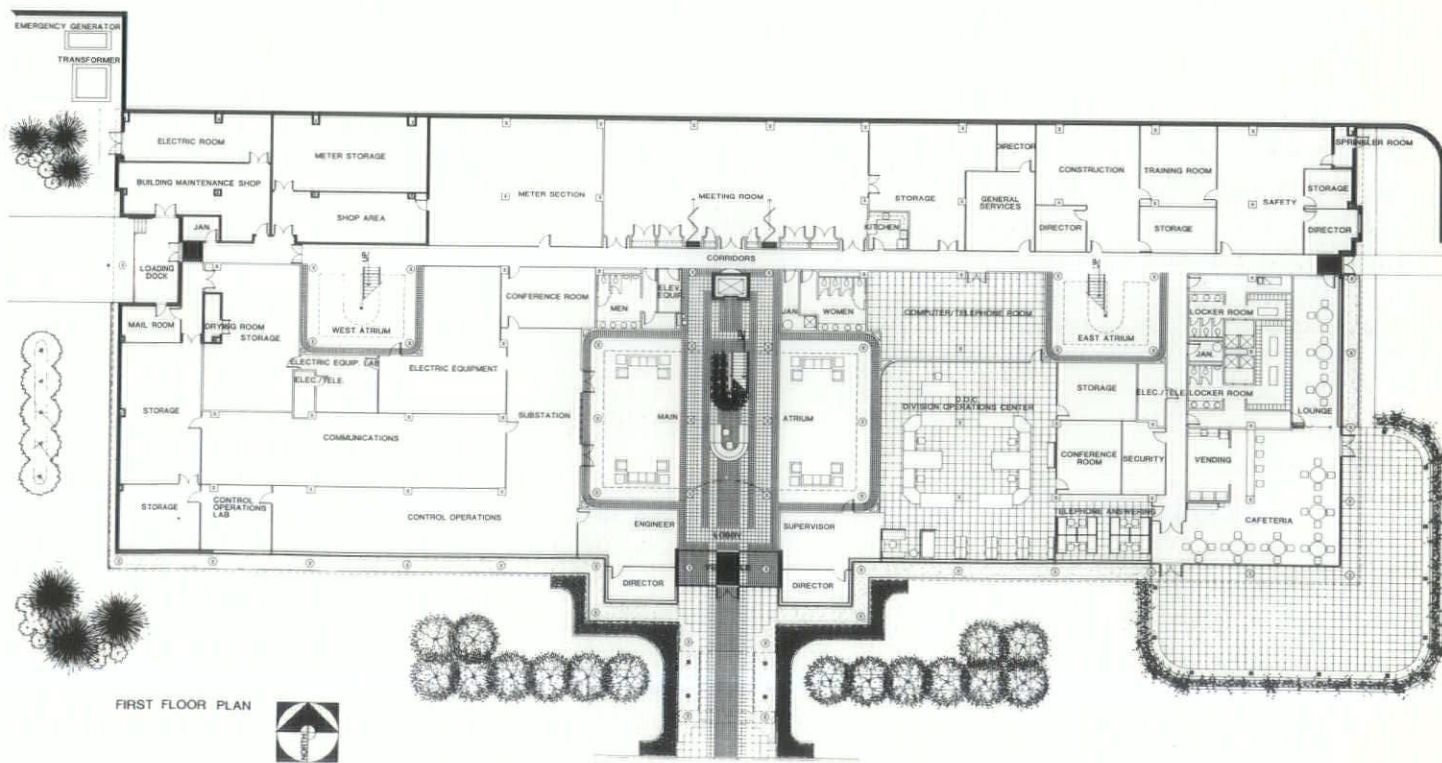
acoustical tile ceilings & sound panels, and interior column covers; Marty's Floor Covering Co., Inc., resilient tile & special flooring; Schindler-Haughton Elevator Corp., elevator; Chas. W. Pooley, Jr., exterior column covers (Custom Enclosures); Alexandria Sign Designers, project identification sign; J. R. Cumberland, Inc., Grace Monokote cementitious fireproofing; and Wm. B. Hopke Co., Inc., storm/sanitary sewers and water mains.

Others were: John Driggs Co., Inc., Capitol Heights, MD, excavating/earthwork; Davis Landscape Contractors, Gaithersburg, MD, landscaping materials; Four Seasons Nursery of Va., Inc., Orange, landscaping contractor; Sam Finley Co., Chantilly, paving & surfacing contractor; Bethlehem Steel Corp., Baltimore, MD, con-

crete reinforcement; Virginia Concrete Co., Inc., Springfield, cast-in-place concrete; Arban & Carosi, Inc., Woodbridge, architectural precast concrete; Hanley Brick, Inc., Summerville, PA, masonry manufacturer; United Materials & Services, Inc., Springfield, masonry supplier; River-ton Corp., Riverton, Flamingo mortar; S. H. Hamm & Son, Pennsylvania, stonework supplier; Piercy & Sutton, Inc., Baltimore, MD, steel supplier, steel joists & steel roof deck; and W. & W Fabrication, Inc., La Plata, MD, metal fabrication, expansion joint covers & hand rails.

Also, J. P. Stevens (Hi-Tuff) single-ply roofing membrane; Koppers, Inc. & Owens-Corning, roof insulation; Perlite, wall insulation; Celotex (Thermax), foundation insulation; Woodwork-

ing Specialist Co., Inc., Richmond, carpentry, millwork, manufactured cabinets & wood doors; W. R. Grace, Construction Products Div., Baltimore, MD, Bituthene waterproofing; Tremco Maintenance Service Corp., Cleveland, OH, caulking; Solar Seal South, Inc., Richmond, glass; Associated Glass Co., Inc., Fairfax, aluminum entrances, vents, windows & glazing contractor; M. J. Fox Co., agent for County Fire Door, Arnold, MD, metal doors & frames; Kawneer Co., Inc., Lake Ridge, Va., windows, window wall & storefront; Salisbury Steel Products, Inc., Springfield, finish hardware supplier; J & J Industries, Inc., Dalton, GA, carpet; Ronald D. Mayhew, Inc., Bristow, Va., painting contractor & special wall finish; Every Water Guard Co., Inc. (Mameco), Rockville, MD, paint supplier; M. A. Bruder & Sons, Inc., Philadelphia, PA, paint



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manufacturer; Genon & Knoll Textiles, wall covering; Sprinkler Systems, Inc., Richmond, automatic sprinkler system; Wade, Tyler, TX, plumbing fixture supplier; and Warner Mechanical Corp., Rockville, MD, plumbing/heating/ventilating/air conditioning contractor.

And, Lightolier & Columbia, lighting fixtures suppliers; Interstate Electric Supply Co., Inc., Fairfax, electrical equipment supplier; Dynalectric Co., Vienna, electrical contractor; American Aluminum Products, Austell, GA, entrance canopy; Barranger & Co., Inc., Richmond, Trans-wall moveable metal partitions, coat hooks, fire extinguishers & cabinets, and entrance mat; Contract Kitchen Specialists, Inc., Beltsville, MD, kitchen equipment; Cristar Garage Doors & Controls, Vienna, overhead door; Fib-Con Corp., Silver Spring, MD, planter liners; Perley-Halladay Associates, Malvern, PA, storage shed (Bally Case and Cooler); Potomac Mills, Inc., Rockville, MD, horizontal blinds (Bali); Power Dispatchers Equipment, Milwaukee, WI, diagram board; Steel Products, Inc., Rockville, MD, J. G. Wilson roll-up shutters, Mills metal toilet partitions, Panelfold folding partitions, Da-Lite projection screen and toilet accessories & flag poles; Tate Interiors, Div. of Tate Architectural Products, Inc., Columbia, MD, access flooring; ASI Sign Systems & Inter Sign National, Baltimore, MD, signage; Long Fence Co., Fairfax, chain link fence & gates; Rudd's Pest Control, Inc., Annapolis, MD, termite control; S C F Decks, Inc., Towson, MD, elastomeric sheet roofing, flashing & sheet metal, gutters, downspouts & accessories, skylights & roof hatches; and Stewart Bros. Photographers, Inc., Rockville, MD, construction photographs.



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Sullyfield Commerce Center

Barkley Pierce Associates, Architects & Planners

Owner: The Henry A. Long Company • Location: Fairfax County

Consulting Architect, Kiat, Inc. • Landscape Architect, Site/Civil Engineer, Long, Brown & Associates • Structural Engineer, FDE Ltd. • Mechanical/Electrical Engineer, Mendoza, Ribas & Associates • General Contractor, Scott-Long Construction, Inc.

Sullyfield Commerce Center, located near Washington Dulles International Airport and close to Route I-66, is a projected 215,000 square foot office-industrial complex developed, leased and managed by the Henry A. Long Company of Fairfax.

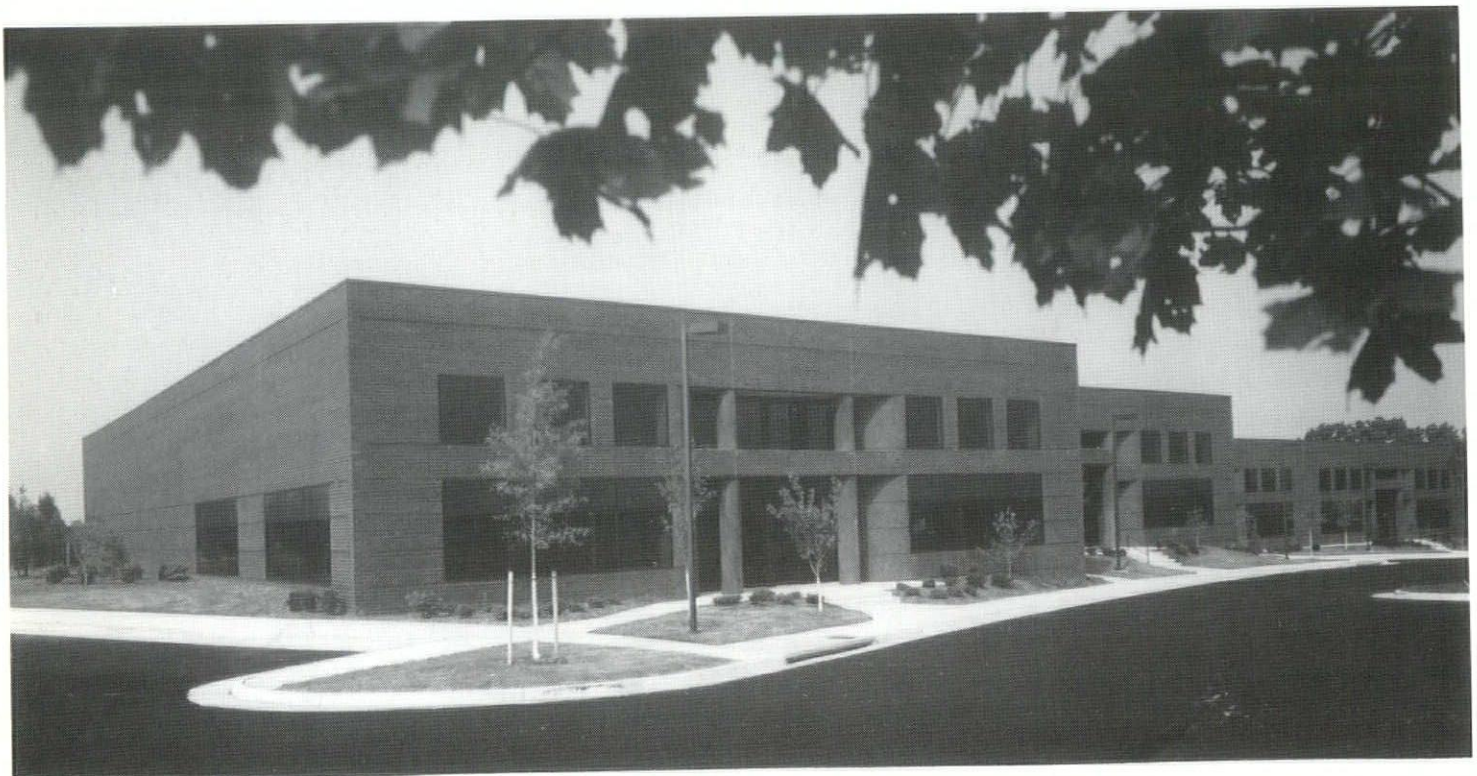
Designed by Barkley Pierce Associates in consultation with Kiat, Inc., the one-story plus mezzanine facility is planned for a wide variety of

uses including light manufacturing, research & development, warehousing, distribution and office space.

A magnificent stand of 60-foot white oaks has been retained in the center of the 13-acre site to provide a special place for lunchtime walks and quiet contemplation. Extensive landscaping designed by Long, Brown & Associates will be added to complement the siting of the buildings. An adjacent two-acre pond will further enhance the overall quality of the working environment.

The dark brick exterior masonry and tinted glass facades lend a truly corporate look to the project. Recessed entries are accented with charcoal columns and brick spandrel beams. Interiors with 30 foot by 40 foot structural bays and 20 foot free and clear ceiling heights were designed for total flexibility to provide each tenant the opportunity to tailor space to specific individual needs. Leasable bay sizes range from 6,000 square feet to 130,000 square feet, not including an optional mezzanine. All buildings are fully sprinklered.

The 129,000 square foot phase one of Sullyfield Commerce Center was built by Scott-Long Construction, Inc., on an expedited schedule. Construction was allowed to proceed prior to the



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final issuance of a building permit through the Fairfax County modified site plan review and approval process. This mechanism permitted the general contractor to commence work three months earlier than otherwise allowed. Phase II, slated for completion in 1986, will also be built by Scott-Long Construction, Inc.

SUBCONTRACTORS & SUPPLIERS

Anderson & Cramer, Reston, mechanical contractor; Bee & H Electric Co., Fairfax, electrical contractor; L. C. Smith, Inc., Alexandria, brick supplier; Trowbridge Steel Co., Sterling, steel supplier; Steck Sales, Damascus, MD, drain supplier; Contract Hardware, Rockville, MD, hardware supplier; Swingin' Door, Inc., Rockville, MD, door supplier; Arlington Iron Works, Inc., Manassas, steel supplier; Kelly Co., Inc., Milwaukee, WI, dock bumpers; Virginia Roofing Corp., roofing contractor & insulation supplier; United Masonry Inc. of Va., Alexandria, brick mason; Virginia Sprinkler Co., Inc., Springfield, sprinkler system; and Strait Manufacturing and Welding, Inc., Greencastle, PA, steel supplier.

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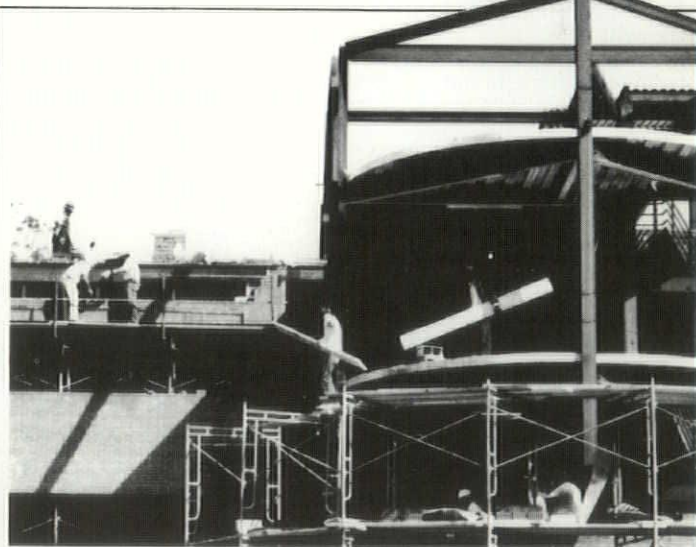
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Backlick Center South II

Location: Lorton

Project Architect/Designer, Walter A. Brown
 • Landscape Architect, Walter Reynolds Design Associates Ltd. • Site Engineer/Surveyor, Kephart & Chan • Structural Engineer, Uwe K. Hinz, P.E. • Mechanical/Electrical Engineer, Leland D. Eisenhower, Ltd. • Geotechnical Engineer, Washington Testing, Inc. • General Contractor, Long Enterprises, Inc. • Photography, Walter A. Brown.

The challenge of an unusually shaped 10-acre site and the need to maximize the buildable area with a combination of retail/office and warehouse/distribution uses led to the continuous stepped front facade of Backlick Center South II.

The project consists of four buildings totaling 212,000 square feet, including a two-story 28,000 square foot office building, in which the owner/developer is currently locating his corporate offices. With both dock and drive-in loading bays, a variety of tenant spaces from 2,000 square feet, and parking and operating room for large trucks, this project offers a large range of facilities for the potential tenant.

The facade of the buildings unfolds in layers as traffic passes by on the curved section of the highway bordering the site on the south side. The use of round brick pillars both highlights and softens the numerous corners. The stepped facade increases the amount of street frontage and also provides an individual identity for the many retail shops.

The masonry detailing is simple and straightforward, yet is handled in a manner which achieves a dramatic and handsome addition to the community. Backlick Center South II was a finalist in the 1985 Masonry Institute Design Awards.

Long Enterprises, Inc. of Springfield was general contractor and handled excavating, foundations, concrete work, foundation insulation, carpentry and caulking.

SUBCONTRACTORS & SUPPLIERS

Other Springfield firms were: Northern Virginia Steel Corp., steel supplier/erection/joists/roof deck; Smith & Son Roofing & Sheet Metal Co., built-up roof, roof insulation & sheet metal; Metropolitan Millwork Co., Inc., millwork; Fairfax Lumber & Millwork Co., Inc., cabinets; Salisbury Steel Products, Inc., metal doors & frames, wood doors & hardware supplier; and Virginia Sprinkler Co., Inc., sprinkler contractor.

From Alexandria were: Campbell & Ferrara Nurseries, Inc., landscaping materials & landscaping contractor; Duron Paints & Wallcoverings, paint supplier/manufacture; Ferguson Enterprises, Inc., plumbing fixture supplier; Mt. Vernon Plumbing & Heating Co., Inc., plumbing contractor; and James R. Harris, Inc., heating/ventilating/air conditioning contractor.

Others were: APAC, Virginia, Inc., Lorton, paving contractor; Newington Concrete Corp., Newington, concrete supplier; Long Masonry, Inc., Lorton, masonry contractor & waterproofing; Webster Brick Co., Inc., Roanoke, masonry manufacturer; Potomac Valley Brick & Supply Co., Rockville, MD, masonry supplier; Hallmark Iron Works, Inc., Newington, miscellaneous metal & handrails; Downey Construction Co.,

Lorton, wall insulation, gypsum board contractor, special wall finish & wall covering; and Woodbridge Glass Co., Inc., Woodbridge, glass, glazing contractor, windows, window wall & storefront.

Also, Charles L. Williams Tile Co., Inc., Dumfries, ceramic tile; Executive Floors & Interiors, Lorton, resilient tile & carpet; H. T. Patterson Paint Contractor, Greenville, painting contractor; The Lawrence Corp., Wheaton, MD, specialties & equipment; Westinghouse Elevator Co., Upper Marlboro, MD, elevator; Interstate Electric Supply Co., Inc., Fairfax, lighting fixtures supplier; General Electric Co., Fairfax, electrical equipment supplier; and Bee & H Electric Co. and Coastal Electric Corp., both Fairfax, electrical contractors.



Sullyfield Park Center

Location: Chantilly

Project Architect/Designer, Walter A. Brown • **Landscape Architect, Walter Reynolds Design Associates Ltd.** • **Site Engineer/Surveyor, Patton, Harris, Rust & Associates** • **Structural Engineer, Uwe K. Hinz, P.E.** • **Mechanical/Electrical Engineer, Leland D. Eisenhower, Ltd.** • **Geotechnical Engineer, Law Engineering** • **General Contractor, Long Enterprises, Inc.** • **Photography, Walter A. Brown.**

Sullyfield Park Center is a uniquely designed project offering 106,000 square feet of research and development, office and warehouse/distribution space in two buildings, for companies wanting to locate in close proximity to Dulles Airport.

A striking exterior appearance, leasing flexibility, low maintenance and practicality were key elements in the owner's building program.

The strong high-tech image presented in these buildings was achieved through the use of basic brick detailing, highlighted by sharply contrasting brick banding, and the introduction of banded semi-circular windows to feature the

entrances. Continuous curved greenhouse-type windows on the mezzanine level help transform what is essentially a simple brick box into a unique and dramatic design.

Typical bay widths of 40', depths of 106' and 126', clear ceiling heights of 18' in the warehouse area, both dock height and on-grade loading areas and a fenestration that adapts easily to many tenant layouts, are a portion of the design elements used to satisfy the flexibility requirements.

The exterior materials, brick, aluminum windows and storefront with insulating glazing, are

part of the package which provides the owner with a maintenance free and energy efficient building that successfully responds to the scope of the program. Stringent acoustical requirements also had to be met.

Long Enterprises, Inc. of Springfield was general contractor and handled carpentry and caulking.

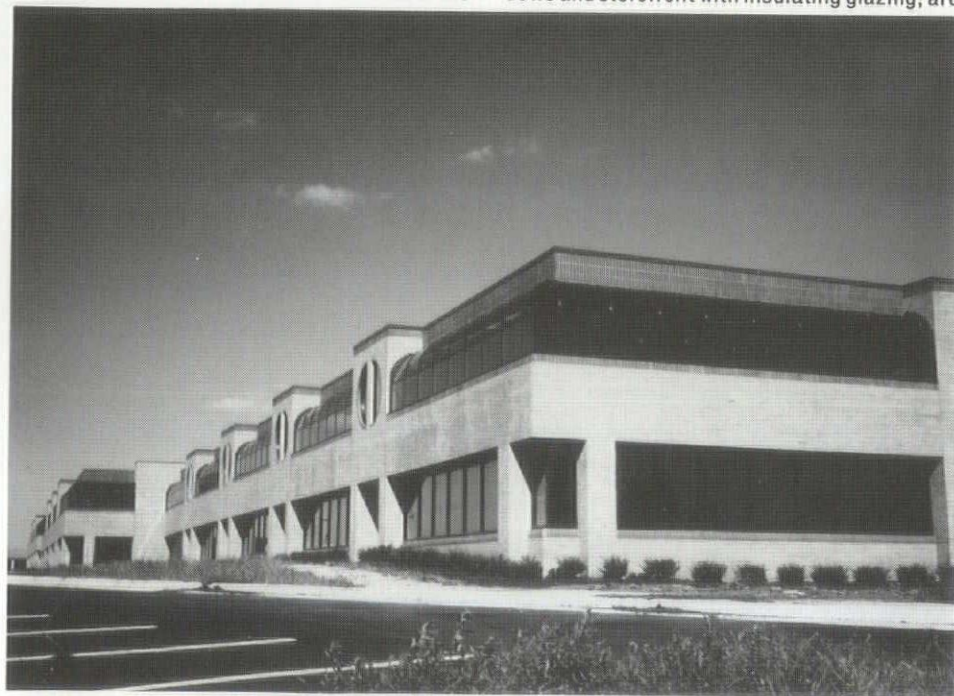
SUBCONTRACTORS & SUPPLIERS

Other Springfield firms were: Smith & Son Roofing & Sheet Metal, Inc., built-up roof, roof insulation & sheet metal; Salisbury Steel Products, Inc., metal doors & frames, wood doors & hardware supplier; McCormick Paint Works Co., paint supplier/manufacture; and Virginia Sprinkler Co., Inc., sprinkler contractor.

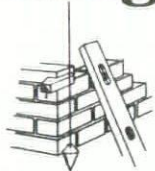
From Alexandria were: Campbell & Ferrara Nurseries, Inc., landscaping materials & landscaping contractor; L. C. Smith, Inc., masonry supplier; and Mt. Vernon Plumbing & Heating Co., Inc., plumbing/heating contractor.

Others were: William T. Hazel, Chantilly, excavating & paving contractor; Fredericksburg Construction Co., Chantilly, foundations, concrete contractor & foundation insulation; Herndon Concrete, Inc., Herndon, concrete supplier; Long Masonry, Inc., Lorton, masonry contractor & waterproofing; and International Steel, Centreville, steel supplier/erection/joists/roof deck, miscellaneous metal & handrails.

Also, Fairfax Glass Co., Falls Church, glass, glazing contractor, windows, window wall & storefront; Downey Construction Co., Lorton, gypsum board contractor; H. T. Patterson Paint Contractor, Greenville, painting contractor; Dominion Electric Supply Co., Arlington, lighting fixtures/electrical equipment supplier; and Bee & H Electric Co., Fairfax, electrical contractor.



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Essex Centre

Ivy-Wall-Ltd.—Architect

Owner: Columbus Business Centre Associates—E. Kenneth Day, General Partner •
Location: Virginia Beach

Project Architect, Richard J. Ivy, AIA • **Designers,** Edward R. Wall, AIA and Peter Bastinelli • **Project Manager,** Peter Bastinelli • **Interior Designer,** Linda Parrett Associates • **Site Engineer/Surveyor,** Talbot & Associates, Ltd. • **Structural Engineer,** Roland McPherson, P.C. • **Mechanical Engineer,** Boulevard Heating & Air Conditioning, Inc.—**Design/Build** • **Electrical Engineer,** Arc Electric, Inc.—**Design/Build** • **Geotechnical Engineer,** Herbert & Associates Ltd. • **Construction Manager,** CM Associates, Inc.—**Stuart Penner** • **Photography,** Joe Wiseman

The emergence of the Pembroke area in Virginia Beach as the city's central business district has brought a corresponding demand for office space, particularly larger office spaces to meet the needs of corporate clientel. The design and construction of the Essex Centre are a direct response to these factors.

Columbus Business Associates' Pembroke site borders a commercial zone, a large renovated shopping store, and a low-rise residential neighborhood. In a sense the Essex Centre serves as a buffer between the residential community and



the start of the mid-rise/high-rise business district, relating in scale to both. In addition, the owner's vision of a brick building with large expressive arches helped shape the program and design. A desire to "fast track" some of the construction led to a modified design/build method, co-ordinated by the Construction Manager. This enabled early integration of building systems and subcontractors.

The Essex Centre itself is a three-story steel-framed structure with metal stud wall construction. The exterior skin of brick veneer and glass panels forms a continuous arched facade. Each floor line is expressed within the arched openings by a stepping of the building from a recessed first floor outward for the second and third floors. Slightly projecting bands of darker brick and panels of stacked bond brick below the windows further accent the floor lines. Large arches which make up the facade and main entry are of suspended brickwork. The Brick

Institute of America assisted in the preparation of details for transferring thrust created by the arches to the structural frame.

The main entry, a three-story atrium, is marked by full-height arches on two projecting sides. In addition to housing the elevator and stairs the entry also serves as a gathering lobby for the entire building. The full-height arches intersect above the main entry to form a plastered groin vault. Many of the brick details from the building's exterior have been incorporated in the atrium.

Office spaces will be arranged and finished by individual tenants. Each floor contains stairs, men's and women's toilet rooms, janitor closet, mechanical chases, and electrical service provided by the owner.

The Essex Centre recently won First Place in the 1986 Virginia Masonry Association's Excellence in Masonry Design Competition. The project had previously received the First Honor Award in the James River Chapter AIA's 1985 Design Awards Competition.

CM Associates, Inc. of Virginia Beach acted as Construction Manager for the project, and handled carpentry, millwork, paneling and cabinets.

SUBCONTRACTORS & SUPPLIERS
Virginia Beach firms were: M. M. Gunter & Son, Inc., excavating; Reeve's Landscaping, lands-

caping materials & landscaping contractor; Gunter Bros. Concrete Co., Inc., foundations & concrete contractor; Higgins Roofing Co., Inc., roofing & roof insulation; Insulation Service Co., Inc., wall insulation; Kempsville Building Materials, Inc., structural wood & wood doors; Ceramic Tile of Florida, Inc., ceramic tile; and Boulevard Heating & Air Conditioning, Inc., heating/ventilating/air conditioning contractor.

From Norfolk were: Winkelman, Inc., paving contractor; Hall-Hodges Co., Inc., reinforcing, metal doors & frames; Lone Star Industries, Inc., concrete supplier; Snow, Jr. & King, Inc., masonry contractor; Batchelder & Collins, Inc., masonry supplier & mortar; Walker & Laberge Co., Inc., handrails, glazing contractor, window wall & storefront; Door Engineering Corp., hardware supplier; Wenger Tile & Plastering Co., Inc., plaster contractor & gypsum board contractor; Otis Elevator Co., elevator; and K & L Plumbing & Heating Co., plumbing fixture supplier & plumbing contractor.

Others were: Webster Brick Co., Inc., Suffolk, masonry manufacturer; Liphart Steel Co., Inc., Richmond, steel supplier/erection/joists/roof deck & miscellaneous metal; Sav-On Carpets, Chesapeake, resilient tile & carpet; Interior Systems of Va., Inc., Chesapeake, painting contractor & paint supplier; Williams Fire Sprinkler Co., Inc., Williamston, NC, sprinkler contractor; and Arc Electric, Inc., Chesapeake, lighting fixtures/electrical equipment supplier & electrical contractor.

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 - Virginia Society of CPAs' Headquarters, and
 - Essex Centre
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*Dunbar, Milby & Williams
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services for
these featured projects:*

- Society of CPA's
Headquarters Building
- Stony Point Shopping
Center
- Travelodge Richmond

Virginia Society of Certified Public Accountants Administrative Offices & CEC Facilities

Highfill-Smith Associates, Inc.—Architect

Owner: Virginia Society of Certified Public Accountants • Location: Henrico County

Project Architects/Designers, C. P. Highfill, AIA/W. L. Smith, AIA • Interior Design, Architect with Chasen's Business Interiors • Cost Consultant, Kjellstrom & Lee, Inc. • Site Engineer/Surveyor, J. K. Timmons & Associates, Inc. • Structural Engineer, Dunbar, Milby & Williams • Mechanical/Electrical Engineer, Spratley, Hundley & Carmack • General Contractor, Kjellstrom and Lee, Inc. • Photography, Whitney Cox.

The Virginia Society of Certified Public Accountants was studying its space alternatives. The membership needs and demands increased services. The membership is especially concerned about continuing education. As a result, the Society office administers a continuing education program that conducted 112 educational sessions in 1983, with sessions growing in number and attendance each year.

The staff and space required to meet the needs of the membership was also increasing. The Society needed to make a decision! Should it build, buy or lease the required space. A feasibility study was authorized. Working closely with the staff, a pro forma format was developed by Highfill-Smith Associates, Inc. to evaluate the various options, bringing each to an "equivalent rent" basis. Based on the study, the



Society determined that the best alternative would be to purchase property and build.

The building would house the state administrative offices and the Continuing Education Center (CEC). The CEC criteria called for it to be capable of sub-dividing into three spaces which would accommodate a 35-person seminar each and a fourth space which would accommodate a meeting of 12 persons. These spaces would also need to be capable of opening into one large space to accommodate 100 persons theatre style.

A design was developed that provided each function its own identity in wings perpendicular to one another. One wing housed the administrative functions. The other housed the Continuing Education Center. The two wings were joined by a "Forum" space. The forum utilizes passive solar design for lighting and heat. Large skylights provided daylighting and windows along the south exposure allow the sun to heat up the brick paver mass in the floor. This heat is then "metered" out to the space by convection. The two walls common with the Forum and the two

wings are solid masonry, and act as additional heat storage masses. In summer, the overhanging roof cuts off the sun's rays to the brick floor.

The Forum is a flexible space, providing the entrance "lobby," circulation, and "break" space during seminars. Large planters are strategically located under the skylights to provide an interior landscaped area that complements the landscaping outside the south-facing windows. The Society occupied the building March 1, 1985.

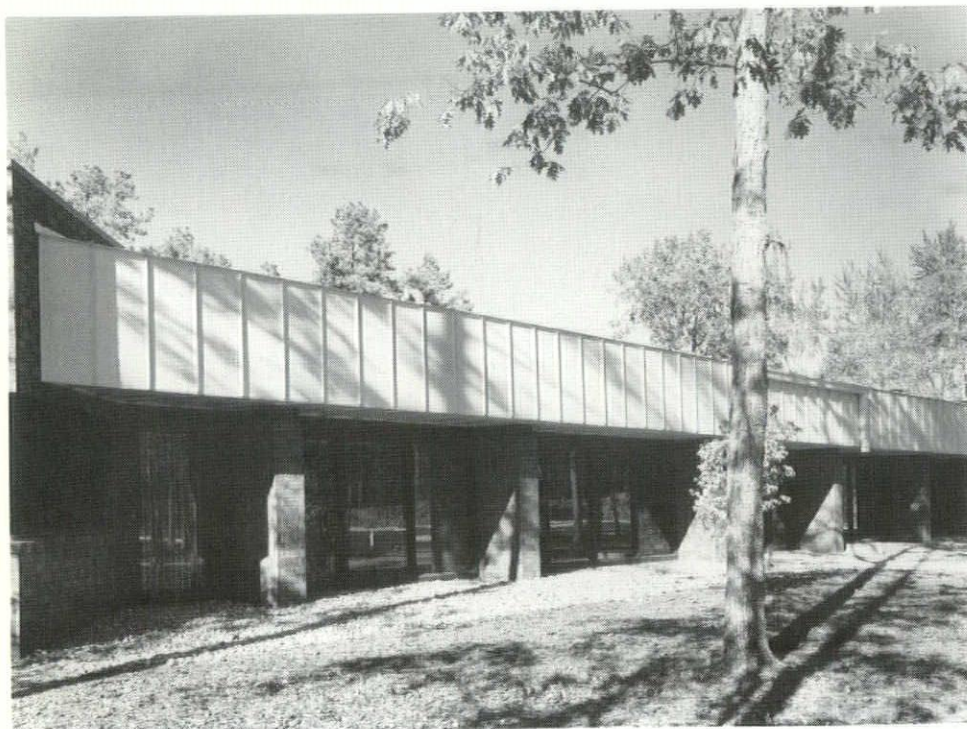
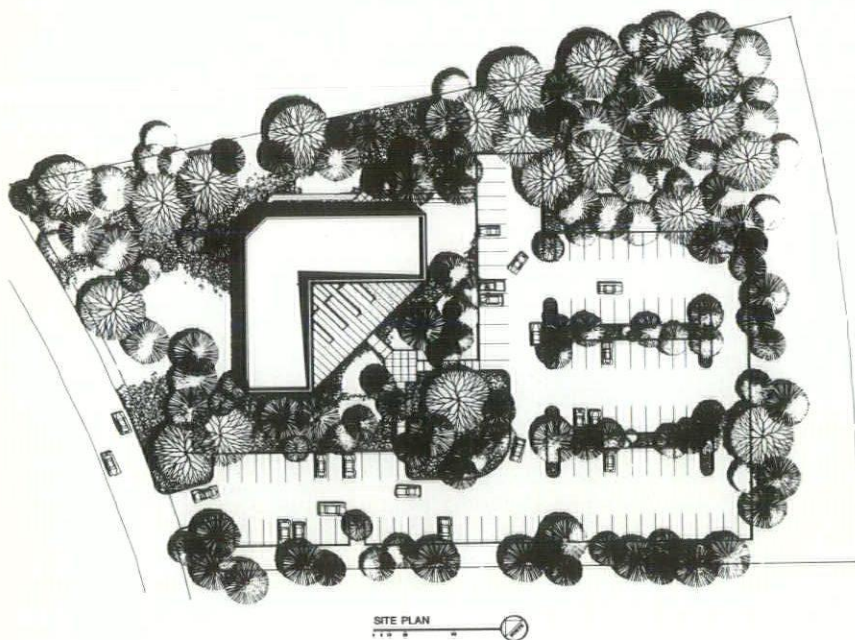
According to the Society's Executive Vice President, Thomas M. Berry, Jr., the project is "not only a brick and mortar building, but a center for all our statewide activities — a source of pride for our members and a strong statement about this profession to the general public."

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

SUBCONTRACTORS & SUPPLIERS (Richmond firms unless noted)

W. E. Duke & Sons, Inc., Glen Allen, site demolition, site clearing & grading, excavation, asphalt paving & base, site concrete & site utilities; Earthscapes, landscaping; Richmond Termite Co., termite control; Parking Lot Maintenance, Inc., traffic markings & signage; Massey Concrete Corp., ready-mix concrete supplier; Bowker & Roden, Inc., reinforcing steel supplier; Southern Brick Contractors, Inc., masonry supplier/contractor; Liphart Steel Co., Inc., furnish & erect structural steel, steel joist & metal roof deck; A. Bertozzi, Inc., light-gauge framing & gypsum wallboard systems supplier/contractor; J. B. Eurell Co., supply & installation of Tectum roof panels; N. W. Martin & Bros., Inc., sheet roofing, sheet metal, metal roofing, gutters & downspouts, wall flashing & roof hatch supplier/contractor; Kalwal, Incorporated, Manchester, NH, furnished & installed translucent skylight panels.

Also, E. S. Chappell & Son, Inc., Mechanicsville, caulking & sealants supplier/contractor; American Door & Glass, Inc., aluminum doors & frames supplier/contractor; Architectural Hardware, Inc., furnish finish hardware; H. E. Satterwhite, Inc., ceramic tile supplier/contractor; Manson & Utley, Inc., acoustical ceilings, resilient flooring & base supplier/contractor; DMA & Associates, Inc., furnish & install carpet; James G. Day Painting & Decorating, Inc., painting & vinyl wallcovering supplier/contractor; Roanoke Engineering Sales Co., Inc., operable board units, telephone enclosures by Phillips & Brooks, toilet accessories & projection screen by Da-Lite; Pleasants Hardware, furnish hollow metal frames; John G. Bagley, furnish toilet compartments; Sign Graphics, Inc., furnished & installed identifying devices & graphic signs; Moore Sign Corp., Chester, furnished & installed Innsbrook Corp. Center sign; Barranger & Co., Inc., furnished & installed Hough operable walls & coiling counter door; J. W. Kyte Co., Inc., plumbing/heating/ventilating/air conditioning supplier/contractor; Bagby Electric Co., Inc., electrical supplier/contractor; and H. Beckstoffer's Sons, Inc., cabinetwork, millwork & wood doors supply/installation.



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COMPLETE CONTRACT DESIGN, FURNISHINGS, CARPETING AND ACCESSORIES.

United Virginia Bank Headquarters Building

Lee, King, Poole and White—Architects

Owner: United Virginia Bankshares, Inc. •
Location: Richmond

Project Architect/Designer, Thomas C. White, AIA • Associated Architect, Finch, Alexander, Barnes, Rothschild & Pascal, Atlanta, GA • Landscape Architect, Wilson-Moreth Partnership • Interior Design (public spaces), 3D International, Inc., Houston, TX • Interior Design (bank spaces), United Virginia Bank Property Management • Cost Consultant, Freeman & Roberts • Site Engineer/Surveyor, Austin Brockenbrough Associates • Structural Engineer, Harris, Norman & Giles • Mechanical/Electrical Engineer, Roache, Mercer & Faison • Consulting Mechanical Engineer, Syska & Hennesy, Inc., Washington, DC • Geotechnical Engineer, Froehling & Robertson, Inc. • Acoustical Consultant, Bolt, Beranek & Newman, New York, NY • Food Service Design, Foodesign, Charlotte, NC • Audio/Visual, Hubert Wilke, Boston, MA • General Contractor, J. A. Jones Construction Co. • Photography, Steve Weisensale.

PROGRAM

In the late 1970s, United Virginia Bank had outgrown its headquarters building which was built in 1910 and expanded in 1966. The bank needed a new building with 350,000 square feet of space for their immediate use, and 100,000 square feet of space for future growth. The decision to remain downtown prompted the bank to buy a 44,000 square foot site across Main Street from its existing headquarters. Several specialized areas were needed in the new building, including: three large security vaults; a large auditorium; five meeting and seminar rooms with complete A/V facilities; a full service cafeteria; an executive dining area; a board room; and a large banking lobby.

SITE

The site of the new building covers one-half of the city block bounded by Ninth, Tenth, Main and Cary Streets in Downtown Richmond. It was completely covered with existing buildings, ranging from a row of four masonry bearing wall structures on Main Street, to a 12-story steel office building and a 14-level concrete parking garage on Cary Street. All of the structures were demolished and the office building was taken down with explosives. The north and east sides of the site had to be shored during excavation and the existing 12-story Mutual Building was underpinned.

DESIGN SOLUTION

The new 28-story tower was positioned on the site at the Cary and Tenth Street boundaries so as not to conflict with the existing 80-year-old

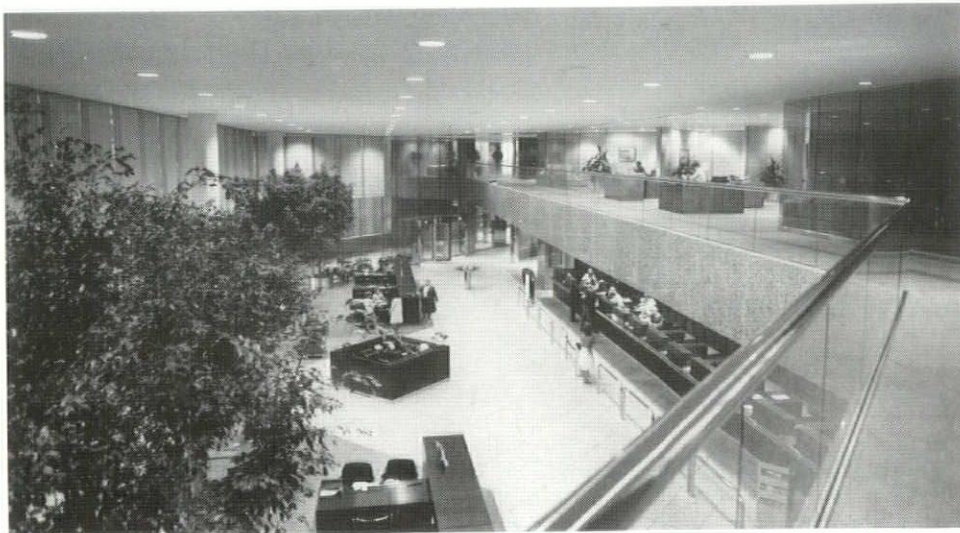
Mutual Building. This also provided a location on Main Street for a three-story pavilion building which houses most public functions, including the banking lobby and the cafeteria, as well as the below ground vaults and bank officers' parking. The two elements are connected to each other, as well as to the Mutual Building by a three-story, glass roofed gallery. This space serves as the main entrance to the building from Main Street, Ninth Street and an existing parking deck, which was enlarged as part of the project. Included in the gallery is a 30-foot waterfall, as well as a group of large indoor trees.

Within the tower, a five-story atrium connects the first lower level and the four floors above. These floors contain all of the Bank's public functions, such as: safe deposit vaults (lower level #1); banking lobby (first floor); commercial banking (second floor); food service (third floor); and a 20,000 square foot conference center (fourth floor). The east wall of the atrium consists of a 100' x 60' all glass section, providing a view of the outside. While providing natural light for five floors, the atrium also serves as a focal point for visitors not familiar with the building.

Floors five through twenty-three contain over 285,000 net square feet of general administrative space. Each floor has a 1,600 square foot bay which is designed to accommodate oversized loads, such as large computer assemblies and library shelving. All administrative floors are designed on a five foot module, using an energy efficient lighting system, supplemented by task lights at individual work stations. Wire management is via an underfloor duct system. In order to best utilize space and allow personnel access to daylight, open plan offices are used extensively. A sound masking system is employed to provide privacy throughout open office areas.

The building's skin consists of polished granite, double-pane reflective insulating glass and clear insulating glass. Granite was chosen as the major exterior material because it provides a durable, low maintenance finish while complementing existing nearby stone buildings. Exterior details such as indented corners and and spandrels give the building a 17% glass-to-skin ratio, which greatly improves energy conservation. The twenty-fourth floor, which houses the executive dining and board rooms, was indented to give the building a dramatic cap. The resultant sun shade also permitted the use of full height, clear glass.

The Main Street elevation features a large plaza which provides relief from the "cavern" effect caused by many of the neighboring buildings. It includes a grove of locust trees set in granite planters and steps that are graduated in length



along both sides of the plaza, which also serve as seating. A large cylindrical sculpture in stainless steel, entitled "Quadrature," by Robert Engman, is the dominant feature.

Construction contracts were administered in 14 fast-tracked bid packages. The building was completed on schedule and within the original construction budget.

STRUCTURAL DETAILS

Foundation: Caissons

Structure: Steel

Skin: Polished granite, reflective and clear insulating glass

Size: 615,000 gross square feet

480,000 net square feet

24 floors plus 2 basements plus 2 mechanical floors

CONSTRUCTION CREDITS

J. A. Jones Construction Co. of Charlotte, N.C. was general contractor and handled carpentry.

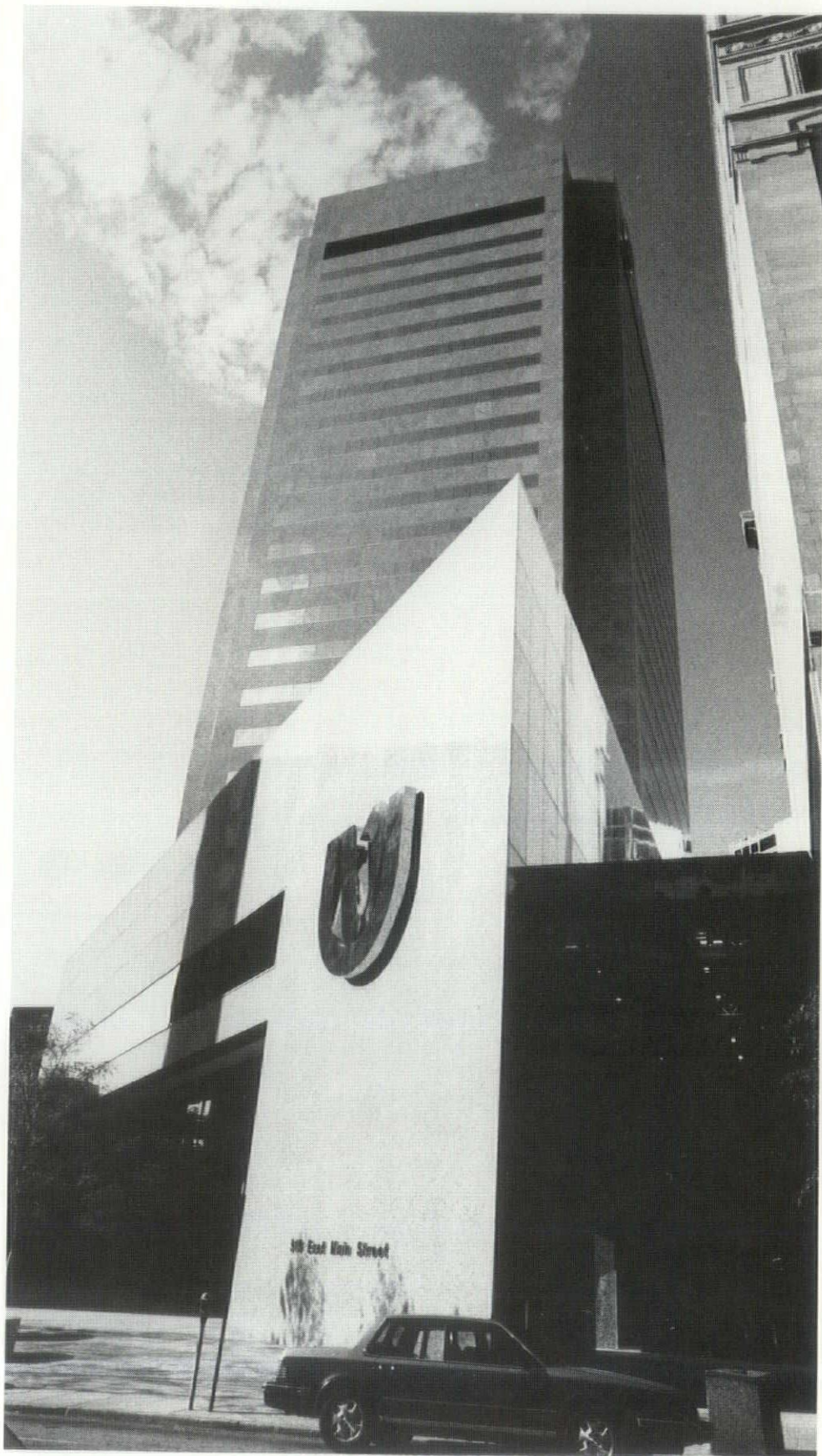
SUBCONTRACTORS & SUPPLIERS

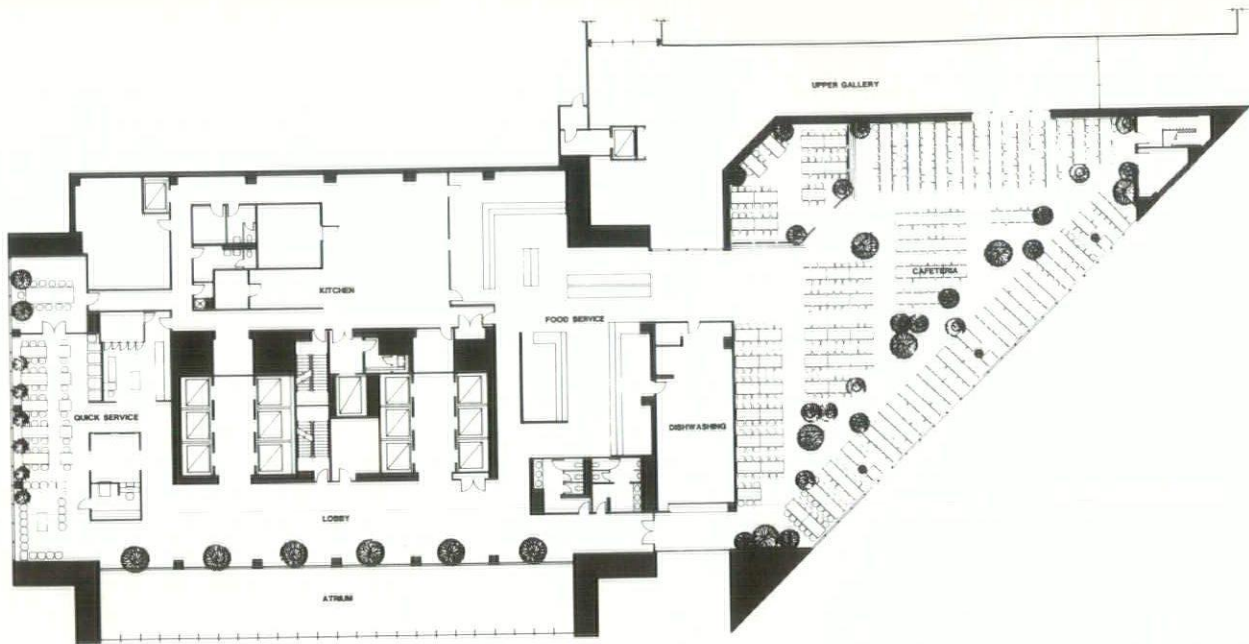
(Richmond firms unless noted)

Dominion Caisson Corp., Alexandria, excavating & foundations; Watkins Nurseries, Inc., Midlothian, landscaping materials & landscaping contractor; Dwight Snead Landscaping & Paving Co., Inc., landscaping materials; Whiting-Turner Contracting Co., concrete contractor; Lone Star Cement, Inc., concrete supplier; Farragut Masonry Corp., Portsmouth, masonry contractor; Concrete Structures, Inc., masonry manufacturer; Lehigh Portland Cement Co., Annandale, mortar; Empire Granite Corp., stonework contractor; and Cold Springs Granite Co., Marble Falls, TX, stonework supplier.

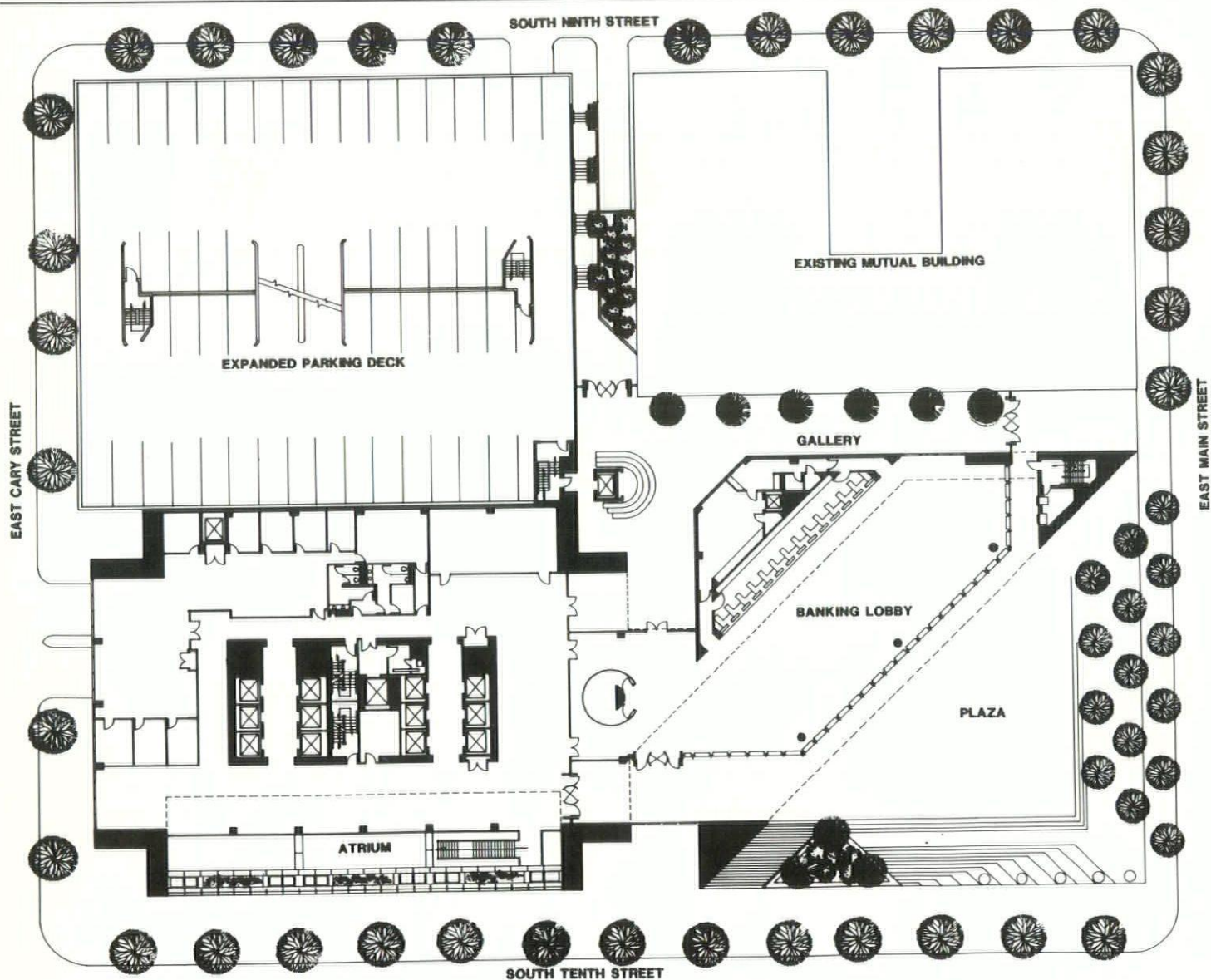
Also, Peden Steel Co., Raleigh, NC, steel supplier/joists/roof deck; Bristol Steel & Iron Works, Inc., steel erection; Liphart Steel Co., Inc., steel grating & miscellaneous metal; N. W. Martin & Bros., Inc., roofing & roof insulation; Waco, Inc., wall insulation, insulation of mechanical systems & fire systems; Mitchell & Becker Co., Charlotte, NC, handrails & steel stairs; Walter R. Sauer & Sons, Inc., Long Island City, NY, millwork/custom painting; Pilot Woodworking, Inc., Carlstadt, NJ, paneling; H. Beckstoffer's Sons, Inc., cabinets; Alexander Waterproofing Co., waterproofing; Stone Specialty Co., Bethia, caulking; and Flippen Sheet Metal, Inc., sheet metal.

And, Libbey Owens Ford, Inc., Raleigh, NC, glass; Cupples Products, St. Louis, MO, glazing, windows & window wall; Binswanger Glass Co., glazing contractor; American Steel Products Corp., Farmingdale, NY, metal doors & frames; Ruffin & Payne, Inc., wood doors; Pleasants Hardware, hardware supplier; A. Bertozzi, Inc., plaster contractor & gypsum board contractor; F. Richard Wilton, Jr., Inc., Ashland, gypsum





THIRD FLOOR PLAN

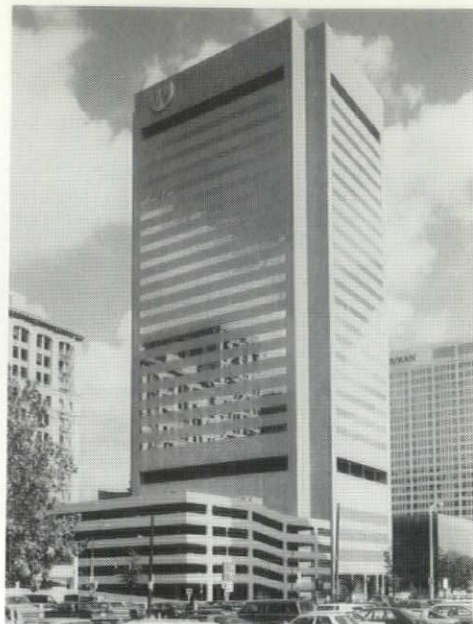


FIRST FLOOR PLAN

board contractor; Richard A. Oliva & Sons, Inc., Charlottesville, ceramic tile; Fendley Floor & Ceiling, Inc., acoustical treatment; O'Ferrall, Inc., acoustical treatment & resilient tile; Acc-U-Rate Carpet Service, Inc., carpet installation; Marsteller Corp., Roanoke, special flooring—seamless comp.; N. Chasen & Son, Inc., painting contractor & wall covering; Sherwin-Williams, Inc., paint supplier/manufacturer; and Otis Elevator Co., elevator.

Others were: Virginia Sprinkler Co., Inc., Ashland, sprinkler contractor; Noland Co., plumbing fixture/electrical equipment supplier; William H. White Jr., Inc., plumbing/heating/ventilating/air conditioning contractor; G. E. Supply Co. & Thomas Harris & Co., Inc., lighting fixtures

suppliers; Southeastern Electric Co., Inc., electrical equipment supplier; Bagby Electric Co., Inc., electrical contractor; Costen Floors, Inc., wood flooring; Chester B. Stem, Inc., New Albany, IN, special wood veneers; Tomlinson Engineering Co., Charlotte, NC, sprayed on fireproofing; Virginia Food Equipment Corp., Ashland, food service equipment contractor; Commonwealth Kinetics Co., Roanoke, vibration control floor; William Hobbs Ltd., Atlanta, GA, interior fountain; Ancha Electronics, Inc., Elk Grove Village, IL, board room table amplification system; Boitnott Visual Communications Corp., audio-visual equipment; Audio Technical Services Ltd., Chantilly, sound mask & background music system; Honeywell, Inc., automation & controls contractor; and J. S. Archer Co., Inc., overhead rolling doors.



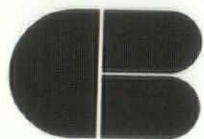
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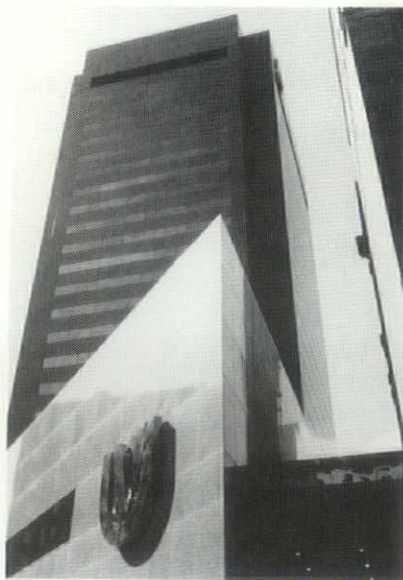
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- Sullyfield Park Center
- Sullyfield Commerce Center

Bank of Virginia—Valley View Branch

Sherertz, Franklin, Crawford, Shaffner—Architect

Owner: Bank of Virginia • Location: Roanoke

Project Architect/Designer, Terrence T. Averill (SFCS) • Landscape Architect, Romaine K. Kesecker (SFCS) • Interior Designer, Sue Glasgow (Bank of Va.) • Structural Engineer, Tye Campbell (SFCS) • Mechanical Engineer, Robert Horak/T. A. Talley/Berlin Kemp • Electrical Engineer, Air-O-Matic • Geotechnical Engineer, Soil & Material Engineers, Inc. • General Contractor, J. M. Turner & Co., Inc. • Photography, Bruce Muncy.



In February of 1985, the Board of Directors for the Bank of Virginia came to SFCS with an exciting but potentially unrealistic proposition; create a 4,000 square foot branch bank to be designed, built, and ready to open by July 12th of the same year. SFCS accepted the proposal and teamed up with J. M. Turner to meet the challenging deadline.

The bank is located on a site adjacent to Roanoke's new "Valley View Shopping Mall." The July 12th date was particularly critical to the Board, since the bank had to open two days prior to the Grand Opening of the new mall in order to capitalize on the projected onslaught of new accounts.

The sense of urgency and speed inherent in this seemingly impossible scheme inadvertently influenced the character of the bank's design. The building could not calmly spread out over the site comfortably nestling into the surrounding commercial competition. Instead, it needed to pull attention from the expansive and innovative shopping mall and its neighbors through an angular, upward-reaching form and a cooling contrasting color scheme.

There were more than enough special restrictions to consider before the three week design session was over. One of particular importance was the "earth coupling" HVAC system that the Board of Directors emphatically wanted incor-



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ALLEN KEY—Owner

porated in the design. The system, installed in only a handful of locations throughout the state, had never before been tested in Roanoke. The four thousand plus feet of PVC tubing filled with water and buried up to two hundred feet below grade in a series of 10 "earth coupled loops" is a closed mechanical system utilizing the earth's constant 55° temperature as a means of heating the building in winter or cooling it in summer. The experiment proved to be quite a challenging coordination proposition for J. M. Turner to handle in the three month building period.

The Bank of Virginia also wanted the new branch's design to be based on an existing bank floor plan, already proven effective in other installations. Though in the final design there were few changes to this floor plan, a major alteration was needed at the entrance in order to compete visually with the many other buildings situated along the circumferential of the new mall. As a focal point to attract the wandering eye of the incoming shopper, two large scale "wing walls" give the entry strong definition while also working as a clear prominent location for the "Bank of Virginia" logos. In this way, the bank is visible both to the distant Route 581 traffic and the approaching shoppers.

Other than the required floor plan and a sight-line limitation drawn through the center of the site allowing one of the premiere stores at the new mall, "Thalhimer's," to be seen from the intersection of Route 581 and Hershberger Road, there was not much to keep the building from becoming an imaginative and innovative creation. The building materials: two shades of light gray brick contrasting the creamy white of the mall; the copper roof, soon to be a soft elegant shade of green and the dark gray reflective glass were all expressly chosen to create a striking image that becomes almost animated when melded with the various angular three dimensional forms.

Having opened on time, due to the committed efforts of all concerned, the bank is "making money" as expected. The heating system has been dramatically effective in reducing energy costs, while the candid, playful architecture has proven to be a strong, up-to-date image for the ever-expanding Bank of Virginia.

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

SUBCONTRACTORS & SUPPLIERS

Salem firms were: Acoustical Services, Inc., acoustical ceiling, sheetrock & vinyl floor; Bolling Steel Co., Inc., miscellaneous steel; Contract Wall Coverings, painting; Key Brothers Manufacturing Co., millwork; Masonry Contractors, Inc., masonry & wall insulation; L. H. Sawyer Paving Co., Inc., paving; Timber Truss Housing Systems, Inc., trusses; and Valley Steel Corp., concrete reinforcing steel.

And, from Roanoke were: Architectural Glass, aluminum entrance windows, sliding mall doors; Diebold, Inc., alarm system; I. N. McNeil Roofing & Sheet Metal Co., Inc., rubber, copper roofing, planters & waterproofing; The Mosler Safe Co., vault doors & hardware; Roanoke Construction Specialties, Inc., hollow metal doors & frames, wood doors, HDW louvers & kitchen; and Roanoke Ready Mix Concrete Corp., concrete.



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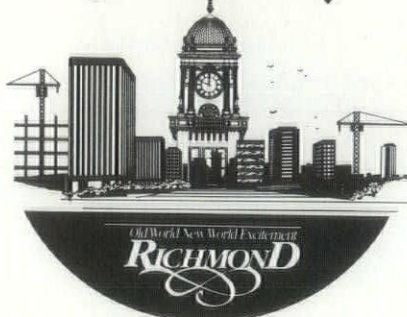
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Project Architect/Designer, Bruce Prichard • **Landscape Architect,** Thornburg & Co. • **Interior Designer,** HBA Interiors • **Site Engineer/Surveyor,** Engineering Services, Inc. • **Structural Engineer,** Stroud, Pence & Associates • **Mechanical/Electrical Engineer,** Bowman & Associates • **Geotechnical Engineer,** ATEC Associates, Inc. • **Architectural Project Manager,** C. Michael Ross • **General Contractor,** Duke & Associates • **Photography,** Hamblin Color Graphics.

PROGRAM

To design and construct a new building which would house a full-service Branch Bank, a Commercial Banking Center, and approximately 10,000 square feet of leasable space on a site in the heart of the newly designated downtown district of Virginia Beach. The new building should be of a quality to express Central Fidelity Bank's renewed commitment to the community and should be of a scale and character to anticipate the future growth of the downtown area. Program requirements and budget considerations dictated approximately 25,000 square feet of new construction.

SITE

The building site is located on the northwest corner of the intersection of Independence Boulevard and Columbus Street and is approximately 1.2 acres. The criteria influencing the development of the building concept were: 1) Vehicular and pedestrian circulation into and around the site, particularly the accommodation of four drive-thru lanes for the branch bank;

2) Maximization of building area to make the project financially feasible and accommodation of the parking spaces required. This became especially critical when the City of Virginia Beach required 25 feet (approximately 10% of the site) be reserved for future right-of-way expansion for Independence Boulevard; 3) Maximum visibility of the entrance and lobby area where the automatic teller machine would be located.

DESIGN SOLUTION

In order to accommodate the programmatic needs of the client on this small urban site, it was necessary to minimize the first floor footprint. This was done by locating only the Branch Bank on the first floor and projecting a second and third floor over the drive-thru lanes. The drive-thru lanes were located on the site in such a way as to facilitate ingress to and egress from the site, and minimize conflict with the busy intersection. The entrance was oriented toward the major intersection for maximum visibility and security. A three-story atrium/lobby at the



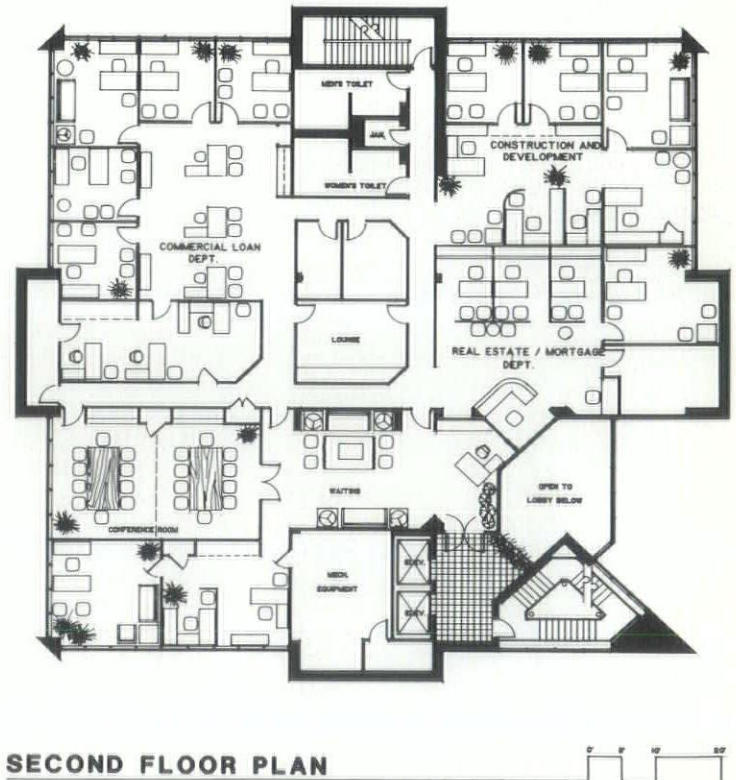
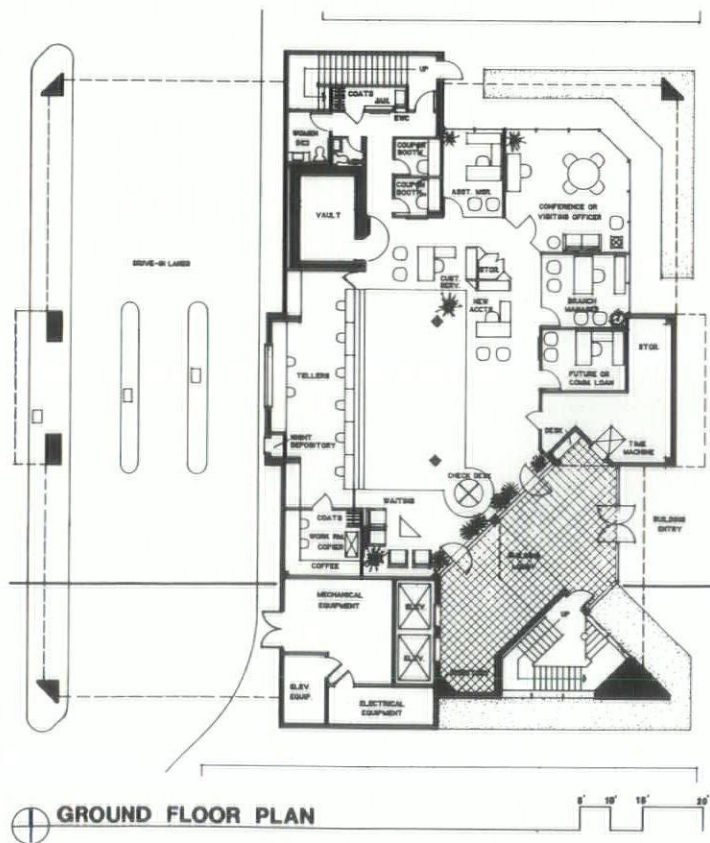
entry provides a grand scale to the public space and also brings natural light into the interior spaces of the building.

THE BUILDING

The three-story steel frame building is partially clad with prefabricated, ceramic tile faced, steel stud wall panels. The decision to use ceramic tile on the exterior skin was predicated by both the client's and the architect's desire to find a low cost material that would approach the elegant appearance of a higher grade material such as stone or marble. Panels were prefabricated offsite, delivered to the jobsite via flatbed truck, and erected by crane in significantly less construction time than typical veneer construction. The relatively lightweight panels required less structural mass to support them than similar masonry, stone, or precast concrete systems; thereby eliminating tons of costly dead-weight in design.

The balance of the exterior skin is a curtainwall system incorporating solar grey insulating glass, reflective at the office bays, and non-reflective at the atrium and surrounding the triangular stair tower.

The spanning of a portion of the building over the drive-thru lanes posed a unique problem;





that of noise transmission through the floor. This problem was solved by constructing a horizontal sound deadening partition, suspended by sound isolation hangers, below the floor joists; thereby effectively stopping sound and vibration before it reached the floor.

The three-story atrium space at the building entry brings abundant natural light into the Branch Bank and interior offices, and the second and third floor elevator lobbies which cantilever into the space contribute to an architecturally exciting environment. The transition from exterior to interior space is delineated by the continuation of the ceramic wall tile and the ceramic floor pavers into the atrium/lobby. Marble tile at the elevator wall, and carpet and plants on the second and third floor elevator lobbies, provide visual warmth to the space and further reinforce the transition to a friendly receptive environment.

Passing through the glass doors into the Branch Bank, the overall scale of the space as well as

the textures and colors of the finishes work together to create the balance of formality and personal attention that is most appropriate for the business of banking. The ceramic paver floor provides an attractive durable surface in front of the teller line and is framed by the softer carpet surface which continues into the private offices around the perimeter. The glass partitions between the private offices and the banking floor provide the necessary vision and privacy required by the bank management and also bring natural light from the building perimeter into the space. Soffits over the teller line, and between the private offices and the banking floor, reduce the scale of the space to a more intimate level. The rich dark walnut of the teller line casework, doors, and furnishings, as well as the plantings and the artwork throughout, contribute to the warm working environment.

The design of the second floor Commercial Banking Center continues and expands on the theme and color palette established in the Branch Bank. The reception area and the conference room incorporate an even richer mahog-

any wood for doors and furnishings, and the decor has a more traditional flavor in keeping with the bank's established standards. The remainder of the second floor is organized around a central core which incorporates a lounge, a workroom, and toilet facilities. The ceiling system surrounding the core is continuous, and partitions stop at the underside of the ceiling to facilitate plan changes with minimal disturbance to the overall fabric of the space. The floor covering is a carpet tile, under which is a flat wire system providing power, telephone, and computer capability to the individual workstations. This further reinforces the flexibility of the space to accommodate future plan changes.

The building was completed in October of 1985.

CONSTRUCTION CREDITS

Duke & Associates of Virginia Beach was general contractor and handled foundations, concrete work and carpentry.

SUBCONTRACTORS & SUPPLIERS

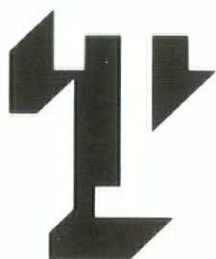
From Virginia Beach were: Hudson Masonry Co., Inc., masonry contractor; Guille Steel Products Co., steel joists & steel roof deck; Owens-Corning Fiberglas Corp., wall insulation; Premier Millwork & Lumber Co., Inc., millwork, cabinets & wood doors; Smith-Gerloff Painting & Decorating, painting contractor (Duron Paints); and Byler Plumbing Co., plumbing contractor.

Norfolk firms were: APAC-Virginia, Inc., paving contractor; Hall-Hodges Co., Inc., reinforcing; Sadler Materials Corp., concrete supplier; Lone Star Industries, Inc., masonry manufacturer/supplier & mortar; Tidewater Steel Co., Inc., steel supplier/erection; Baker Roofing Co., roofing contractor; Campostella Builders & Supply Corp., additional cabinets; Walker & Laberge Co., Inc., glazing contractor; Door Engineering Corp., metal doors & frames; Ferrell Linoleum & Tile Co., Inc., resilient tile; Contract Carpet Sales, Inc., carpet; Shaw Paint & Wallpaper Co., Inc., wall covering; Dover Elevator Co., elevator; Baker & Co., heating/ventilating/air conditioning contractor; and Architectural Graphics, Inc., building directory.

And, from Chesapeake were: Dozier Enterprises, excavating; Greenbrier Farms Landscaping, Inc., landscaping materials & landscaping contractor; K & P Caulking Co., Inc., caulking; Chesapeake Plastering Co., gypsum board contractor & acoustical treatment; and Tidewater Fire Protection Co., Inc., sprinkler contractor.

Others were: Trocal — Dynamit Nobel, New Jersey, roof manufacturer & roof insulation; Julius Blum, New Jersey, handrails; PPG Industries, Inc., Pittsburgh, PA, glass; Kawneer Co., Inc., Niles, MI, window wall & storefront; H & P Hardware & Specialty, Inc., Portsmouth, hardware supplier; David Allen Co., Inc., Raleigh, NC, ceramic tile, prefab ceramic tile panels & marble; Balco, Inc., Wichita, KA, recessed entry mat; General Electric Supply Co., lighting fixtures supplier; Roberts Movable Walls, Inc., Michigan, folding partition; and Burndy/Eck Supply Co., Newport News, undercarpet power system.

Bank Equipment Vendors: Mosler—vault door, alarm system, teller window/deal drawer, after hours depository & under counter equipment; Diebold—automatic teller machine; Security Corp.—remote teller units; D/A Capital—video cameras; and Security Pac—money dye system.



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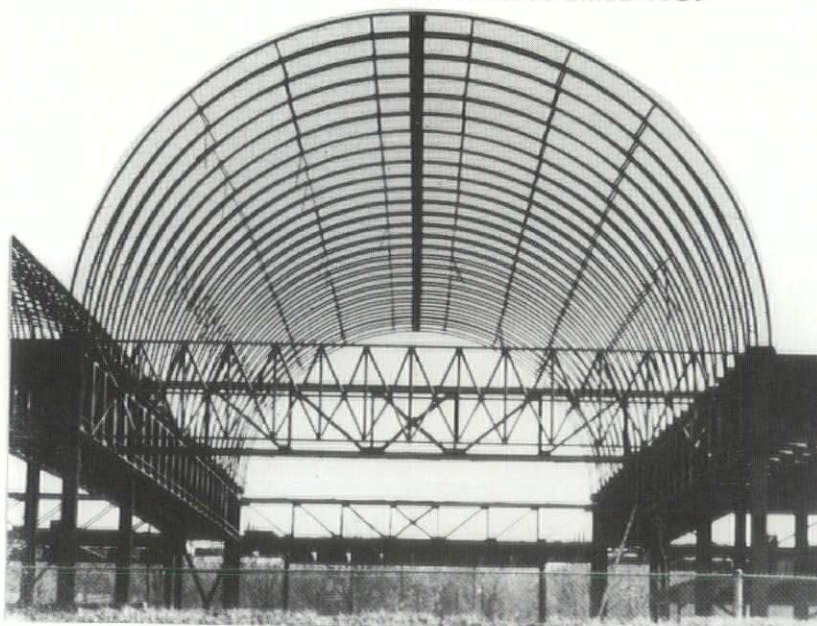
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Location: Richmond

Project Architect/Designer, Willard M. Scribner • Landscape Architect, Gary Clower • Site Engineer/Surveyor, J. K. Timmons • Structural Engineer, Dunbar, Milby & Williams • Mechanical/Electrical Engineer, Colonial Mechanical Corp. • Geotechnical Engineer, Froehling & Robertson, Inc. • General Contractor, The Woolfolk Companies • Photography, Whitney Cox and James Stygar.

In many ways any neighborhood shopping center can be considered similar to a stage set. It serves as a stage for community, tenant, and developer self-expression. The Stony Point Shopping Center expanded on this theme by affording the community an opportunity to share in the determination of its own self-image. Specific community issues were traffic and the visual impact on their neighborhood. The merchant tenants, on the other hand, required the shopping center to function as a "stage" for effective merchandise display and to offer a building that invited shoppers to come in. For the developer, it presented an opportunity to dramatically demonstrate the achievement of business goals. These intangible requirements had to be satisfied by the architectural design, as well as the tangible ones, such as terrain and cost per square foot.

COMMUNITY REQUIREMENTS

Stony Point is located in the most recently annexed section of the city of Richmond. It borders on the 19th century resort community of Bon Air where Victorian houses with the typical bursts of architectural enthusiasm dominate the residential collage. Pockets of low-rise traditional style commercial strip centers also dot the area.

The shopping center site encompasses the southern corner of a very large underdeveloped land area within the city limits and about seven miles west of downtown Richmond, just south of the James River. It is directly accessible from Huguenot Road and Forest Hill Avenue as well as a number of local streets. Pedestrian access to the James River is afforded by an easement directly to the riverfront at the northwest corner of the site.

GENERAL LAND USE CONCEPTS

(as set forth in the city's master plan)

—Development of the entire 527 acres should be planned as one community, incorporating the highest standards of current planning technique.

—The owners were entitled to a reasonable use of the land they own, particularly in view of its large size.

—That any new development should be compatible with previous development adjacent to it and should "fit" that community-at-large; that new development should have a neutral, and if possible, an ameliorative effect on existing traffic problems; and that higher intensity uses should be buffered from lower intensity uses.

—That the entire development might serve to demonstrate a conservative and responsible





Whitney Cox photo

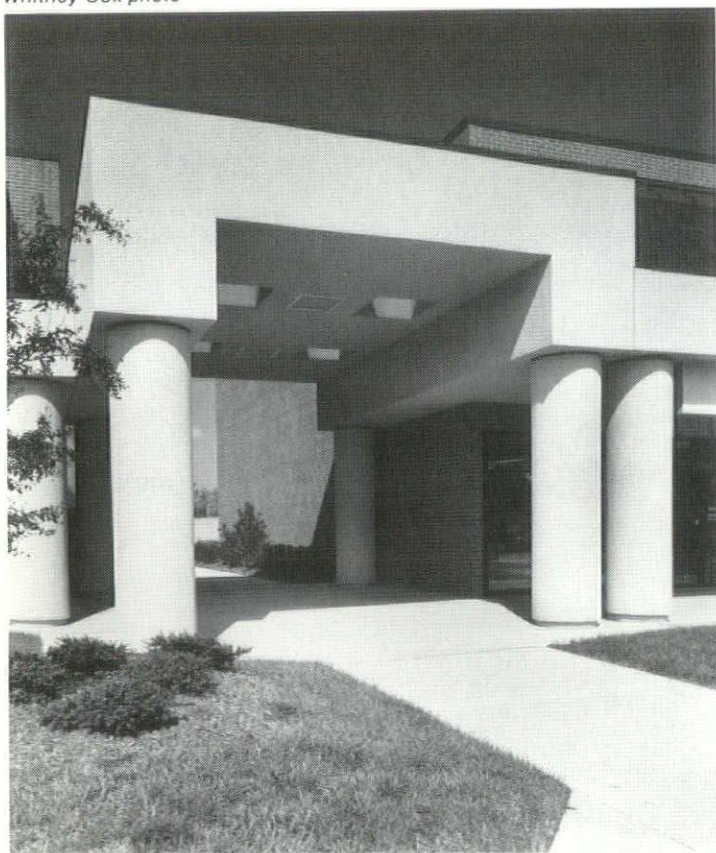
approach to the management of a natural physical resource, so that it should be possible to preserve much of the best land in its natural state, and make it available for the enjoyment of the entire community.

THE DESIGN SOLUTION

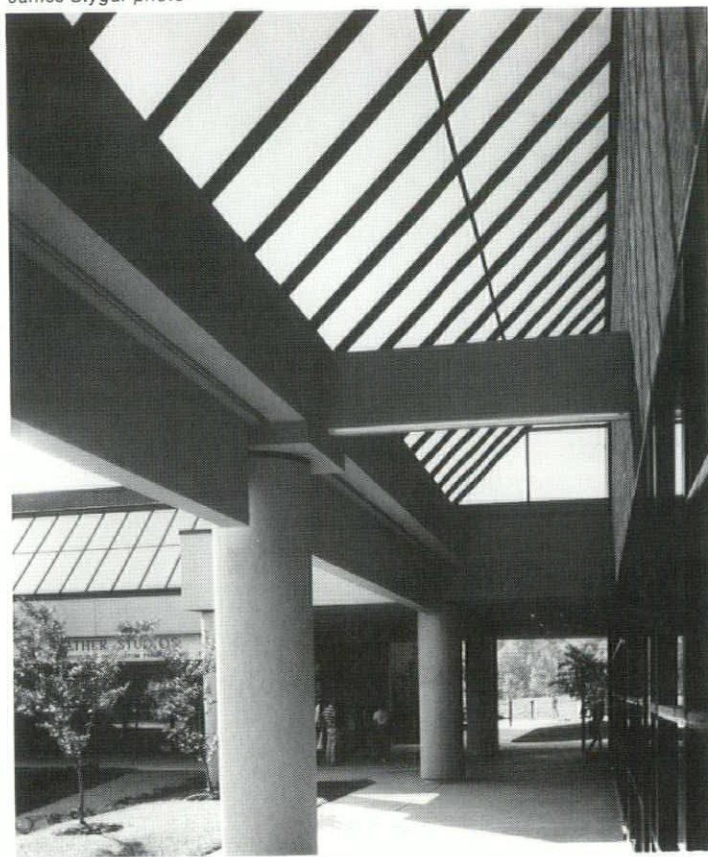
The slope of the land offers a natural visual buffer zone between the existing community and the 120,000 s.f. shopping center. The impression of the size of the center is greatly diminished because it is set back from and lower than the main roads. As residents drive by, day or night, the buildings visually greet them with a measure of elegant reserve. Brick, stucco, glass, and—for the outparcel buildings—wood construction combine to match the design signals radiating from the neighboring structures and the wooded area. The outparcel design is coordinated with the overall design of the strip. All of the buildings present a unified image through echos of materials and design elements, such as the shoji screen pattern of the storefront and steeply pitched glass roofs.

Neighborhood shopping center traffic patterns are complementary to commuter traffic patterns. In addition, the layout of the parking and access roads quickly funnels the additional traffic off the streets to be absorbed by the site.

Whitney Cox photo



James Stygar photo



DEVELOPER REQUIREMENTS

In general, developers seek a balance between cost, aesthetics, and profitability. This is a strip shopping center, but its appearance is intended to set it apart from the typical strip shopping center. It was to look natural in the neighborhood but not rustic or traditional and it should emanate a sense of class and quality. The visual appeal should speak to the higher end of the tenant market and evoke the feeling of being in a mall.

THE DESIGN SOLUTION

Restrained classic proportions and the use of columns make the configuration seem like a large structure. The strip gains a mall-like quality. An outdoor courtyard provides a gathering place to linger a while longer. A five-foot planning module with varying store depths was utilized. These devices worked so well that the project was 100% leased ahead of projections.

CONSTRUCTION CREDITS

The Woolfolk Companies of Richmond was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

(Richmond firms unless noted)
Albemarle Lawn Irrigation, Inc., Midlothian, irrigation; Hawthorne's Excavators, Inc., Midlothian, excavating; Greenbrier Farms Landscap-

ing, Inc., Chesapeake, landscaping materials & landscaping contractor; APAC Virginia, Inc., paving contractor; Century Concrete of Richmond, Inc., Virginia Beach, foundations, concrete contractor/supplier, reinforcing & prestressed concrete; Southern Brick & Supply Co., Inc., masonry contractor; Brick & Tile Co. of Lawrenceville, Lawrenceville, masonry manufacturer; Bolling Steel Co., Inc., Salem, Red Eye's Welding Service, Powhatan & Morris Industries, Inc., Midlothian, steel suppliers/erection/joists & roof deck; and Single Ply Systems, Midlothian, built-up roof.

Also, F. Richard Wilton, Jr., Inc., Ashland, carpentry; Kitchen Art, Inc., cabinets; Richmond Primoid, Inc., waterproofing; Perkins & Glass,

Inc., glass & glazing contractor; K & P Caulking, Inc., Portsmouth, caulking; Pleasants Hardware, metal doors & frames & hardware supplier; Ruffin & Payne, Inc., wood doors; Waller Bros. Tile, Marble & Terrazzo Co., ceramic tile; Manson & Utley, Inc., acoustical treatment & resilient tile; Wayne Stinnett, General Painting Contractor, painting contractor; Worsham Sprinkler Co., Inc., Ashland, sprinkler contractor; James River Air Conditioning Co., Midlothian, air conditioning contractor for Ukrop's only; J. L. Minter Electrical Contractors, lighting fixtures/electrical equipment supplier & electrical contractor for Ukrop's only; and Colonial Mechanical Corp., plumbing fixture/lighting fixtures/electrical equipment supplier & plumbing/heating/ventilating/air conditioning/electrical contractor for the balance of the project.

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

Location: Charlottesville

Mechanical/Electrical Engineer, Paul A. Sweet • General Contractor, A. L. Yancey
General Contractor.

The rehabilitation of the property at 106 South Street in Charlottesville, formerly known as the H. H. Hankins Warehouse, is a true success story. A long-vacant and deteriorated building was rehabilitated and converted to a restaurant, thereby saving one of the last remaining examples of what was formerly a continuous line of warehouses that ran along both sides of the railroad tracks around the turn of the twentieth century. With the passing of time, the warehouses fell into disrepair, and for the most part were torn down to make way for parking lots. Rehabilitation of the South Street Warehouse was a pivotal step in reversing the downward spiral of this area of Charlottesville's historic district. In the two years since the conversion of the warehouse to a restaurant, adjacent properties have likewise been rehabilitated and the area is taking on a new and thriving appearance.

The exterior of the building was rehabilitated and, except for rehinging of the large warehouse doors to allow light into the interior, has remained virtually unchanged. The large open volume of space on the interior has been maintained while architectural detailing has been added, thereby preserving the visible structural members, and open spaces of the original warehouse interior. Interior detailing was designed to reflect a turn-of-the-century flavor, while making no attempt to appear original. The restaurant is now a thriving business, and stands as a testimony to the value of the 25% Tax Credit provided by the Economic Recovery Tax Act of 1981.

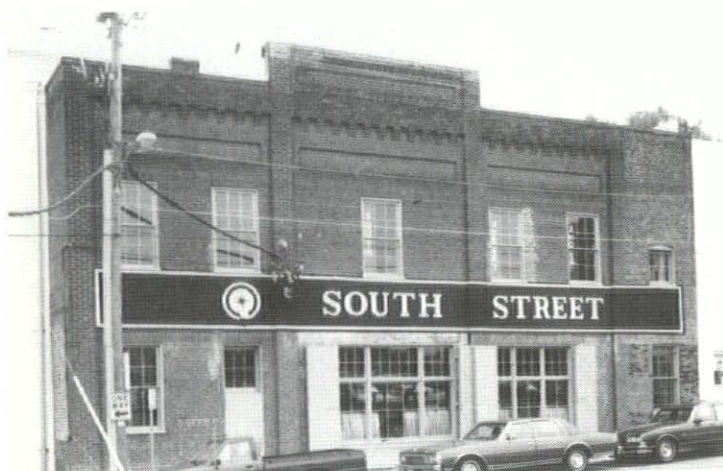
A. L. Yancey General Contractor of North Garden was general contractor for the project and handled carpentry, structural wood and hand-rails.

SUBCONTRACTORS & SUPPLIERS (Charlottesville firms unless noted)

Associated Steel Products, Inc., reinforcing & steel supplier; H. T. Ferron, concrete supplier; M. F. Boger Masonry, masonry contractor; E. M. Martin, Inc., roofing; Puff, Inc., roof insulation; Virginia Insulation Corp., wall insulation; and Phillips Building Supply, Inc., millwork, cabinets, wood doors, windows & paint supplier.

Also, John Teel, North Garden, caulking & painting contractor; W. E. Brown, Inc., sheet metal & heating/ventilating/air conditioning contractor; Virginia Glass Co., Inc., glass; Architectural Hardware, Inc., Richmond, hardware supplier; and Frank E. Ware, Plastering-Drywall Contractor, plaster contractor & gypsum board contractor.

Others were: Richard A. Oliva & Sons, Inc., ceramic tile; The Ceiling & Floor Shop, acoustical treatment; Coleman Floor Service, special flooring; Piedmont Sprinkler Co., Inc., Stanardsville, sprinkler contractor; Maddux Supply Co., plumbing fixture supplier; Brunk Mechanical Corp., plumbing contractor; Eck Supply Co., lighting fixtures/electrical equipment supplier; and Allen Birkhead, electrical contractor.



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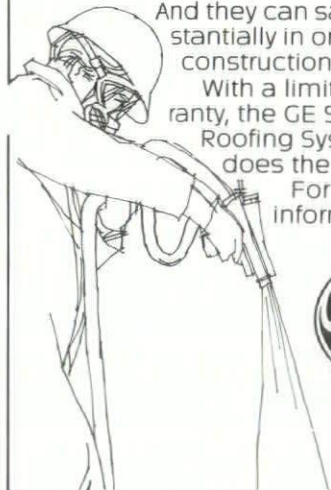
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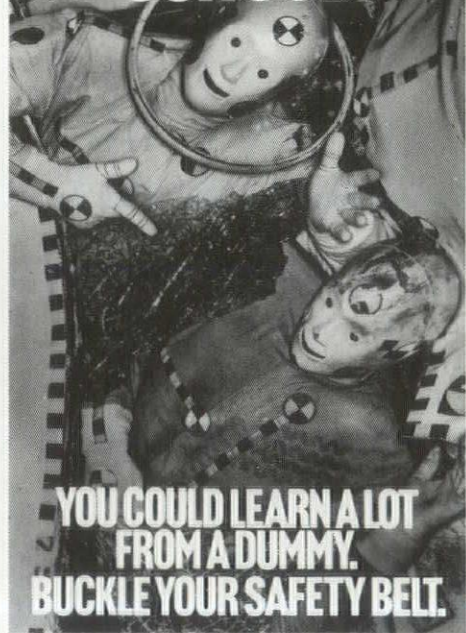
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Hermitage Road Warehouse Renovation, Phase II

Baskervill & Son—Architect

Owner: Richmond Memorial Hospital • Location: Richmond

Interior Designer, Hochheiser-Elias Design Group, Inc. • Site Engineer/Surveyor and Structural Engineer, Harris, Norman & Giles • Mechanical/Electrical Engineer, Baskervill & Son • Kitchen Consultant, John G. Kolbe, Inc. • General Contractor, J. Kennon Perrin Construction Co., Inc. • Photography, Eller's Custom Photography.



BACKGROUND/PROGRAM

The Hermitage Road Warehouse, originally the American Tobacco Warehouse, was acquired by Richmond Memorial Hospital to house its patient-oriented business administration offices. Following an initial building study and cost analysis of the two-story warehouse structure and adjacent equipment building, the project was phased to incorporate a central supply area, rental space, cafeteria and dining/commons area as well as administrative offices.

The first phase of the project, completed in 1984, provided 15,000 square feet of central supply storage area on the first floor. Phase II focuses on the west end of the warehouse and includes the cafeteria, dining/commons area and open rental space on the first floor and administrative offices and conference room on the second floor. Future phases will include computer facilities for Richmond Memorial and a Magnetic Resonance Imagery unit to be supported by Richmond Memorial and three area hospitals.

DESIGN SOLUTION

The warehouse's multifunctional usage required a central entrance allowing independent access to each area. A new infill was added between the existing equipment building located on the north side of the warehouse and the main warehouse structure, creating a heat controlled double lobby. Upon entering the quarry-tiled lobby, attention is drawn upward toward the first floor dining/commons area and rental space through a timber framed opening. An elevator and stairwell provide access from the lobby to the second floor.

Two atriums with clerestories, one extending through to the first floor dining/commons area and the second extending to the second floor office area, allow natural daylighting and further organize the interior space.

The dining/commons area is designed to create an interior landscape, the effect of the upward sloping entrance grade from the lobby being continued by the first floor atrium and clerestory. Table groupings are blended with wooden planters and natural lighting resulting in a relaxing environment. The cafeteria is located adjacent to the dining/commons area.

Marketability of the first floor rental space has been enhanced by providing two means of access, an entrance from the dining/commons area and a direct entrance from the exterior of the building.

The elevator to the second floor opens onto a hallway allowing separate access to the administrative offices and to additional rental space. The pattern of movement within the office area is directed in the same manner as that of the first floor areas; using light and circulation essential

to a pleasant, efficient working environment. The core of the space is composed of a conference room located between the two clerestories. Large windows overlook the two-story atrium from the conference room. A system of open partitions allows the office flow to circulate around this core.

CONSTRUCTION

Except for the new windows cut into the exterior masonry walls, providing perimeter daylighting, the existing timber and plank structure was little changed by the renovation. Irregular wood floors were leveled with gypsum concrete and flat power and communications cable was concealed beneath carpet tiles. As extensions of the existing framing system, the clerestories are finished with beaded pine paneling to complement the existing wood beams and columns. Hip roof shapes were added to the equipment building and entrance areas, for distinction, and covered in metal to help maintain the industrial character of the building.

CONSTRUCTION CREDITS

J. Kennon Perrin Construction Co., Inc. of Richmond was general contractor and handled foundations, concrete work, reinforcing, carpentry, structural wood, and waterproofing.

SUBCONTRACTORS & SUPPLIERS

(Richmond firms unless noted)

E. R. Plaster, Jr., Inc., Sandston, paving contractor; Tidewater Materials Corp., concrete sup-

plier; Boschen Masonry, Inc., Ashland, masonry contractor; Seaboard Concrete Products, stone-work supplier; Browning Steel Co., Inc., steel erection, miscellaneous metal & handrails; N. W. Martin & Bros., Inc., roofing & sheet metal; M R Interiors, Inc., roof insulation & gypsum board contractor; and Dan Styrofoam, wall insulation.

Also, James River Building Supply Co., mill-work, paneling, wood doors & windows; Custom Woodwork, Inc., cabinets; E. S. Chappell & Son, Inc., Mechanicsville, caulking; Walker & LaBerge Co., Inc. of Richmond, glass & glazing contractor; Roanoke Engineering Sales Co., Inc., metal

doors & frames; J. S. Archer Co., Inc. and Pleasants Hardware, hardware suppliers; H. E. Satterwhite, Inc., ceramic tile; W. W. Nash & Sons, Inc., acoustical treatment, painting contractor & wall covering; DMA & Associates, resilient tile; Superior Floor Covering, Inc., carpet; and Costen Floors, Inc., special flooring.

Others were: John G. Kolbe, Inc., kitchen specialties & equipment; Virginia Elevator Co., Inc., elevator; Wes-Way Sprinkler Co., Inc., Mechanicsville, sprinkler contractor; Baker & Hazlewood Mechanical Contractors, Inc., plumbing/air conditioning contractor; and Commercial Electric, Inc., electrical contractor.

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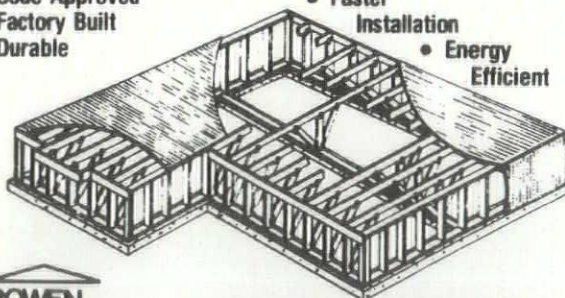
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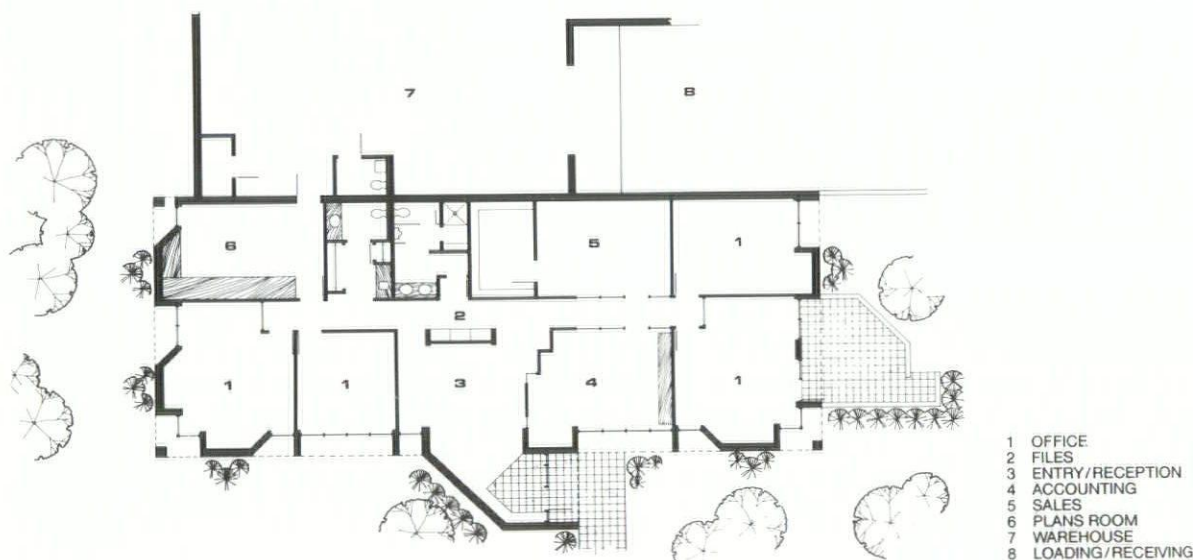
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Pompei Tile Company, Inc. Office Warehouse

Caro, Monroe & Liang—Architect

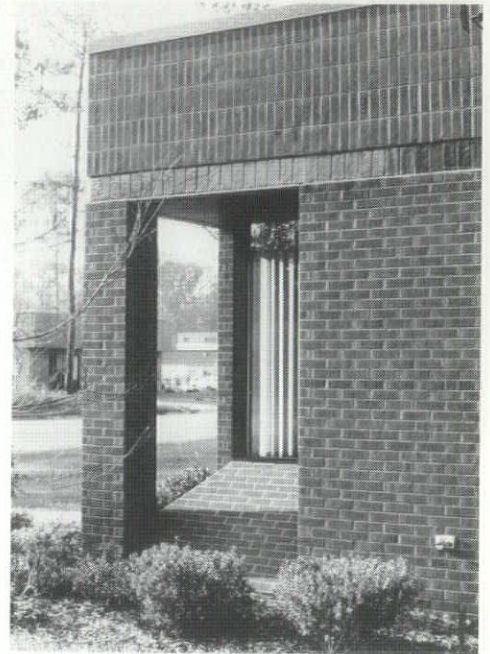
Owner: Pompei Tile Company, Inc. • Location: Newport News

Project Architect, Kevin A. Panchision, AIA • Interior Design, Jan Thomas • Site Design, J. J. Alfonso, C.L.S. • Mechanical/Electrical Engineer, M. J. Thompson III, Consulting Engineers, Inc. • Structural Engineer, George G. Cornwell • General Contractor, W. M. Jordan Co., Inc. • Photography, Jim Pile.



contractor; Gordon's Iron Works, Inc., Hampton, structural steel; Heath Roofing Co., Hampton, roofing; Mechanical Contracting Co., mechanical contractor; Newport Construction, Inc., pre-engineered building; Pembroke Construction Co., Inc., Hampton, site-paving; Quality Window Products Co., window treatment; A. M. Savedge Electric, electrical contractor; Scoggins Painting & Wallcovering, painting contractor; Tide-water Mechanical Corp., Hampton, HVAC; Virginia Door, Inc., Chesapeake, overhead doors; and Walker & Laberge Co., Inc., glass & glazing.

Benson-Phillips Co., Inc., concrete supplier; Engineering Steel Equipment Co., Norfolk, toilet partitions; Equipment Systems, Inc., Norfolk, dock bumpers; Forrest Exterminating Service, Virginia Beach, termite control; Guille Steel Products Co., Virginia Beach, steel joist & metal decking; H & P Hardware & Specialty, Inc., Portsmouth, hardware supplier; Hall-Hodges Co., Inc., Norfolk, reinforcing steel; K & P Caulking Co., Inc., Portsmouth, joint sealers; Seaboard Building Supply Co., Virginia Beach, steel doors & toilet accessories; and Waterfront Lumber Co., Inc., bi-fold wood doors.



PROGRAM

The Program was to establish a highly visible corporate showcase on a corner site in a newly-developed Industrial Park, both to highlight the client's products and to serve as a base of operations for projects throughout the Mid-Atlantic region.

SOLUTION

Designed as a subtly-stated showplace for ceramic, stone and clay products, the office combines the intimate scale of rich chocolate-brown brick with a color accent band of garnet-red glazed tile in a recessed soldier course. Sloping sills and recessed bronze-tint glazing on the south and west facades limit the penetration of direct sun, while providing a play of light and shadow.

The display of the owner's work continues within the entry and reception areas with 12" x 12" polished travertine tile floor and walls and black marble window stools, enhanced by the subtle earth tones of adjacent wall surfaces and the heavily textured white acoustic ceiling. Recessed and indirect lighting highlight artwork selected by the owner to complete the display.

Full-glazed interior partitions between spaces allow penetration of natural light into inner offices, opening up spaces while providing sound control. Private offices and conference rooms are set along the perimeter, while "activity" spaces (Sales, Accounting, Field Operations) are grouped in a central core between public entry and the warehouse.

The building is one-story, with 3,000 s.f. office and 7,500 s.f. warehouse. Construction is slab-on-grade, structural steel frame with perimeter masonry bearing walls at the office, and pre-engineered building for the warehouse. Interior finishes are carpet and travertine flooring, pastel-painted and travertine walls, and heavily-textured acoustic ceiling with recessed and indirect lighting. Cost (excluding furnishings) was \$31/s.f.

CONSTRUCTION CREDITS

W. M. Jordan Company, Inc. of Newport News was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

(Newport News firms unless noted)

Broccuto Drywall & Acoustics, Inc., drywall; Chesapeake Masonry Corp., Hampton, masonry



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American Trucking Associations Headquarters Building

VVKR Incorporated—Architect

Owner: American Trucking Associations •
Location: Alexandria

Project Architect/Designer, Landscape Architect, Cost Consultant, Site Engineer/Surveyor, Structural/Mechanical/Electrical Engineer, VVKR Incorporated • Interior Designer, Design Collaborative • Geotechnical Engineer, Schnabel Engineering • General Contractor, Glen Construction Company of Virginia, Inc.





A highly visible and accessible location is the site of the new American Trucking Associations Headquarters Building. Originally located in Washington, D.C., this national association decided to move to the Washington suburbs due to delays in receiving zoning approval for a Planned Unit Development.

To assist American Trucking Associations (ATA) with their relocation, VVKR prepared a comprehensive evaluation of 13 suburban sites. Upon choosing an appropriate location in Alexandria, VVKR worked with ATA in obtaining the 4.2 acre site from the City of Alexandria.

The building site is located adjacent to the Eisenhower Metro Station and parallel to Interstate 95. Because of its flat topography, the site is highly visible from the interstate as well as the metro station.

These site conditions and ATA's desire to "live" in a contemporary facility, encouraged the VVKR project team to design a strong structural shape that would become the focal point of this newly developing area of Alexandria.

To accomplish these objectives, the project team designed a nine-story office building whose central point is a glass office tower. The office tower is enclosed in energy efficient reflective glass.

A glass enclosed arcade serves as a link between the office tower and the cafeteria dining areas. The executive floor has a dramatic slope ceiling which is 16 feet at its highest point. All support functions occupy the lower level. The support functions include cafeteria, executive dining and conference facilities. A parking structure for 157 cars was also included in the design.

The ATA Headquarters Building, completed in 1985, houses 300 ATA employees and 90 employees of ATA affiliates. The completed building, in



addition to making a strong architectural statement, is functional, economical to operate and has an individualism that is important for a national association such as the American Trucking Associations.

The facility was the winner of an Honor Award in the 1985 Northern Virginia Chapter AIA Design Awards Competition.

Glen Construction Company of Virginia, Inc., Gaithersburg, Maryland, was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

Chapel Valley Landscaping Co., Woodbine, MD, landscaping materials; Welch Pile Driving Corp., Virginia Beach, foundations; Miller & Long Co., Inc., Bethesda, MD, concrete contractor; Virginia Concrete Co., Inc., Springfield, concrete supplier; Beer Precast Concrete Ltd., Scarborough, Ontario, Canada, prestressed concrete; Hallmark Iron Works, Inc., Newington, miscellaneous metal; Davenport Insulation, Inc., Springfield, sprayed fireproofing; Southern Floors & Acoustics, Inc., Manassas, carpet; Russell L. Barton Drywall & Plastering, Inc., Vienna, wall covering; Super Sky Products, Inc., Mequon, WI, skylight; and J. M. Martin, Inc., Fairfax, electrical contractor.

Also, Kim Lighting, City of Industry, CA, fountain; H. C. Ladd & Son, Inc., Rockville, MD, HVAC & plumbing; Custom Walls & Windows, Inc., Laurel, MD, curtain wall system; APAC-Virginia, Inc., Chantilly, paving contractor; Maryland Masonry, Arlington, masonry supplier; R. D. Bean, Inc., Beltsville, MD, roofer; Beta Construction Co., Forestville, MD, waterproofing; Wilcox Caulking Corp., Lorton, caulking; Service Glass Industries, Inc., Frederick, MD, glass & glazing contractor; Bryan and Associates, Inc., Edmonston, MD, painting contractor; Schindler-Haughton Elevator Corp., Alexandria, elevator; and Chesapeake Sprinkler Co., Glen Burnie, MD, sprinklers.

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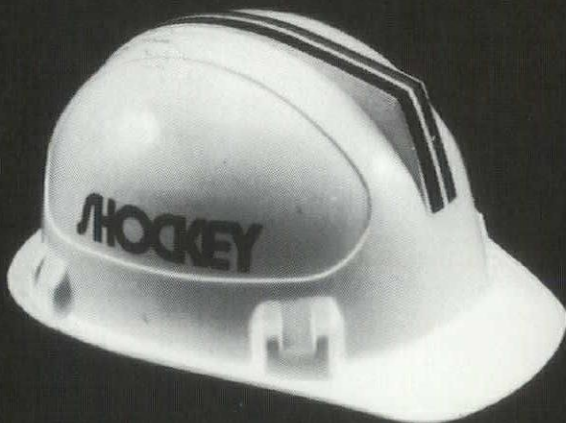


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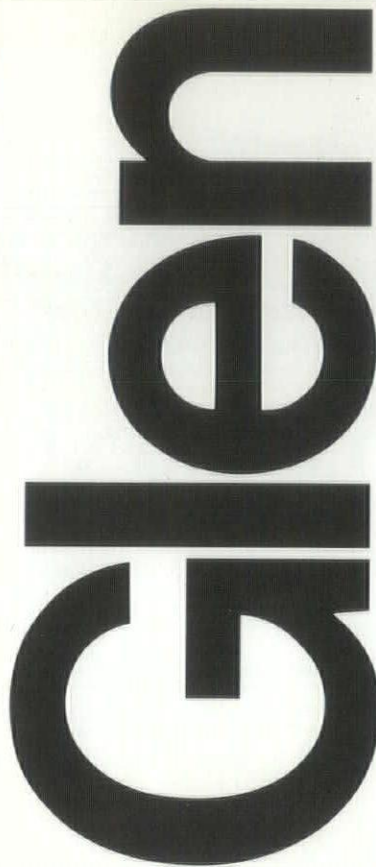
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Thalia Landing Office Complex

CMSS Architects

Owners: Hardy/Reagan, DREDEVCO, J. J. Schopen and Associates, Owens/Dorfman/Mills • **Developer:** DREDEVCO • **Location:** Virginia Beach

Project Architect/Designer, Burrell Franklin Saunders • **Landscape Architect,** John Corica • **Interior Designer,** CMSS Architects • **Site Engineer/Surveyor,** G. F. Sutton & Associates • **Structural Engineer,** McPherson & Associates • **Mechanical/Electrical Engineer,** Beach Professional • **General Contractors—**Kirk Construction Co. (Building 1) and C. F. Hardy Building Corp. (Buildings 2,3,4) • **Photography,** John Wadsworth.

On a 2.26 acre site on the bank of Thalia Creek, Thalia Landing Office Complex has been designed and built to minimize the impact on the site and enhance the views of its natural setting. Wood decks, landscaped gardens and walkways interweave between the clustered, four, single-story professional office buildings. The site's trees, natural contours and drainage patterns were left intact by elevating the wood decks, walkways and buildings above the existing grade.

The design of the buildings takes advantage of wood's cost effectiveness and flexibility in application. Bold, white cornices and overhangs were detailed as accents to the offsetting, and repeating building forms. The overhanging cornice also functions to minimize the solar gain through the south facing windows. The combination of stepped windows, bold cornice work, and lush landscaping, accents the office entrances and enhances the view of the park's natural environment.

Vertical shiplap siding, stained grey, is contrasted by the white stained trim at the cornice. Wood siding was chosen as a complementary material to the buildings' setting in a natural environment and residential neighborhood.

Wood is the logical choice as the construction material for this project. Due to the poor soil bearing capacity, wood was used for the piles because of its lightweight structural characteristics. The wood structural system allowed placement of the buildings without disturbing the natural grades. This, in turn, saved many existing, mature trees.

Wood's design flexibility and structural strength were used to advantage in the framing system as well. The design criteria for maximizing flexible, open office space was satisfied by using roof trusses and scissor trusses spanning between wood framed bearing walls at 30 feet on





center. By using scissor trusses, sloped, vaulted ceilings can be provided in all spaces with the option of having skylit, internal rooms.

Kirk Construction Company of Virginia Beach was general contractor for Building 1 of the project.

C. F. Hardy Building Corp. of Virginia Beach was general contractor for Buildings 2, 3 and 4, and handled drywall.

SUBCONTRACTORS & SUPPLIERS

Virginia Beach firms were: Forrest Exterminating Service, Inc., soil poisoning; Cavalier Grad-

ing, site concrete; Ayers Insulating & Supply Co., Inc., insulation; Greenwich Supply Corp., acoustical ceiling; Dominion Contract Carpets, Inc., carpet; Seaboard Building Supply Co., finish hardware, exterior hardware, window units & exterior doors; C. L. Carter Heating & Air Conditioning Co., mechanical; Cutchins Electric, electrical; Insulation Service Co., Inc., insulation; Mann's Ceramic Tile Co., ceramic tile; and Waterfront Marine Construction, Inc., piling.

And, from Norfolk were: Star Masonry, masonry; Norfolk Sash & Door Co., siding; Powell-McClellan Lumber Co., Inc., wood window frames; Hall-Hodges Co., Inc., hollow metal; J. L. Christian Painting Co., Inc., painting; Engineering Steel Equipment Co., toilet accessories; J. S. Ayers Plumbing & Heating, plumbing; Indoor Air Systems, Inc., mechanical; Sadler Materials Corp., concrete; Addington-Beaman Lumber Co., Inc., siding; Glass Corp., fixed glass; and Norfolk Iron & Wire Works, Inc., structural steel.

Others were: National Roofing Corp., Chesapeake, roofing; Burton Lumber Corp., Chesapeake, Andersen Windows; Ronald H. Johnston, framing & deck labor; Lumber City, Inc., Chesapeake, roof and floor trusses & deck material; and Bob Martindale, painting.

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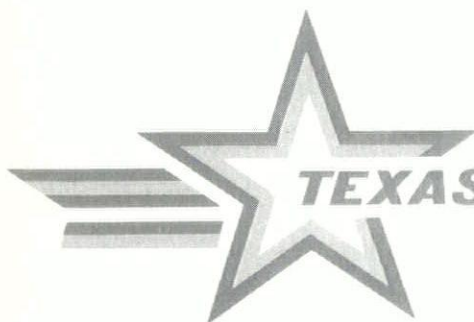
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Freeman & Morgan, Architects

Owner, Texas Development Corp. • Location: Henrico County

Interior Designer, Sheryl Hunnings of Freeman & Morgan • Site Engineer Surveyor, Schmidt & Associates • Structural Engineers, Dunbar Milby & Williams and McKinney & Walker • Electrical Engineer, Hill Electrical, Inc. • Geotechnical Engineer, Sayre & Associates • General Contractor, Texas Development Corp. • Photography, James Adcock Photography.

OWNER'S PROGRAM

The owner asked for a 200-room hotel that was to be part of a large chain. The franchise places emphasis on economy, without cutting the basic comfort of the room, by circumventing the usual extras found in hotels such as restaurants and special services. The target market is the regular business traveler on an expense account, the long distance traveler wishing to economize, and families traveling together. The cost of construction per room has to be justified in the price per room charged to a guest. Also, time allowed for construction had to be kept to an absolute minimum in order to open the hotel as soon as possible.

SITE

As the West End of Richmond becomes more developed commercially, Broad Street increases in importance as a major thoroughfare to outlying areas of business. The rectangular project site is 3.1 acres located on Shrader Road with an entrance on Broad Street, and is situated adjacent to three large chain restaurants (one of these restaurants, Bennigan's, has an agreement with the hotel to provide room service). This is important because the hotel has no restaurant of its own. The proximity of several large corporate parks was also important to the final location of the project.

DESIGN SOLUTION

The first consideration of the owners' program was the issue of time. The cost of precast concrete panels (fabricated off-site and brought in) was compared to the cost of longer construction time using conventional building methods, and was found to be less expensive for this particular project. The precast concrete panel construction cut approximately 60 days off construction time, allowing the building interiors to be finished and the hotel to be opened for occupancy sooner.

The hotel, because of its location on the site and its distance from a major thoroughfare, needed to be visible from Broad Street but also present a restrained and economical facade to passing motorists. Because brick is popular in Richmond, it was chosen over other facing materials to give a sense of scale to the six-story, 82,705 square foot building.

A large aluminum canopy protects the drive up and entrance to the hotel and marks it for better visibility from Broad Street. Because of the canopy size, skylights were installed to shed light underneath and lessen the need for artificial light sources. Above the canopy, a wall protruding from the facade rises to the roof indicating a utility core of corridor crossings, stairs and the





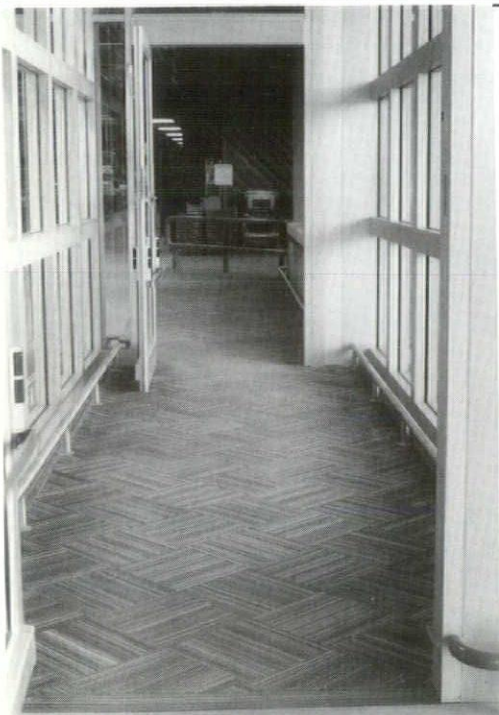
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maids' storage rooms. Windows could have been used in these areas, but would have been placed assymmetrically — interrupting the rhythm of the facade. Instead, the protruding wall above the entrance is covered with brick laid in a Flemish Bond pattern with certain headers, chosen by the architect, pulled out two to three inches to create a textural pattern, equally appreciated in both daytime sun and at night with floodlights shining from below.

CONSTRUCTION CREDITS

Texas Development Corporation of Charleston, West Virginia, the owner, acted as general contractor for the project, and handled plumbing.

SUBCONTRACTORS & SUPPLIERS

From Richmond were: R. G. Atkinson Irrigation Services, Inc., lawn irrigation system; Earthscapes, landscaping contractor; Bowker & Roden, Inc., reinforcing; Whitley Roofing Co., roofing; Walker & LaBerge Co., Inc. of Richmond, aluminum entrances & automatic entrances; The CECO Corp., metal doors & frames; J. S. Archer Co., Inc., Wasco Skydomes, skylight; Roanoke Engineering Sales Co., Inc. bifold partitions; and Virginia Elevator Co., Inc., elevator.

Others were: Guille Steel Products Co., Virginia Beach, steel supplier; Trojan Building Products, metal doors & frames & hardware supplier; Babcock Davis Hatchways, Inc., roof hatch; and Hill Electrical, Inc., Mechanicsville, electrical contractor.

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Owner: Network Associates • Location: Reston

Project Architects/Designers, James W. Barton/Don H. Dao, AIA • Landscape Architect, Kidde Consultants • Interior Designer, Barbara Mahanes, ASID/DBI • Site Engineer/Surveyor, Harold A. Logan Associates • Structural Engineer, Funkhouser Associates • Mechanical/Electrical Engineer, E. K. Fox & Associates • Geotechnical Engineer, STS Consultants • General Contractor, Tiber Construction Co. • Photography, Bill Swarm/Carol Highsmith.

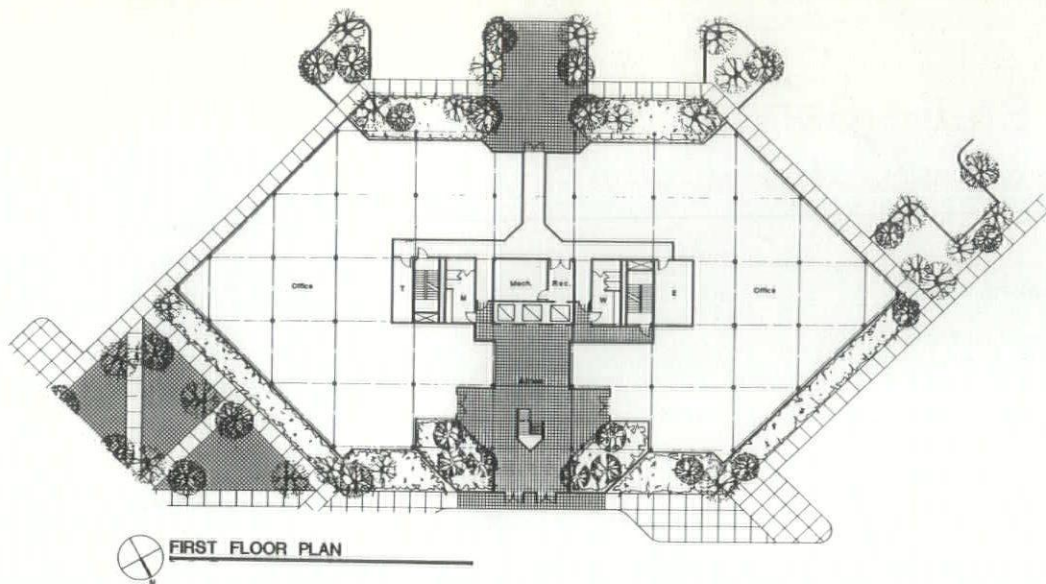
Located in a campus-like setting amidst winding bike and pedestrian paths of Reston, a highly successful planned community west of Washington, D.C., stands the new Sky Courier Network Headquarters, a four-story 72,000 square foot office building. Completed in September of 1985 as the first of twin atrium buildings connected by a terraced plaza, it also enjoys high visibility from the Dulles International Airport Access Road.

The building has a steel frame structure and is clad in a combination of curtain wall, precast concrete spandrels and ribbon glass. The inter-

play of rough and smooth textured precast concrete spandrels and the silver reflective glass and contrasting burgundy colored mullions, creates a complementary relationship with its wooded surroundings. The dramatic sloped atrium serves as a central focus on the exterior as well as playing a major role in the intercommunication of all four floors. To encourage the user to experience the atrium from ascending vantage points a monumental cantilevered stairway linking all four floors stands along the central axis of the lobby atrium. Offices surrounding the atrium are able to experience the view of the neighboring countryside as well as the view







into the landscaped lobby and modular space frame which supports the sloping glass and skylights at the fourth floor.

The mechanical system consists of: variable air volume unitary package on each floor; a full smoke evacuation system; and separate air handling unit for the atrium.

Tiber Construction Company of Fairfax was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

S. W. Rodgers Co., Inc., Manassas, excavating; Area Landscaping, Inc., Fairfax, landscaping materials; C. M. Hunter, Inc., Fairfax, landscaping contractor, paving contractor, foundations, concrete contractor, reinforcing, & foundation

insulation; Virginia Concrete Co., Inc., Springfield, concrete supplier; Arban & Carosi, Inc., Woodbridge, precast concrete; Strait Manufacturing & Welding, Inc., Greencastle, PA, steel supplier/erection/joists/roof deck & other roof deck; Miscellaneous Metals, Frederick, MD, miscellaneous metals & handrails; CMS Roofing Co., Inc., Rockville, MD, roofing & roof insulation; and Davenport Insulation, Inc., Springfield, wall insulation.

Also, Residential Carpentry Corp., W. Bethesda, MD, carpentry; Beta Construction Co., Forestville, MD, waterproofing; Caulking Applicators, Inc., Lorton, caulking; Guardian Glass, Carleton, MI, glass; Allen Glass Co., Inc., Alexandria, glazing contractor; Swingin' Door, Inc., Rockville, MD, metal doors & frames & wood doors; Kaw-

neer Co., Inc., Berwyn, MD, window wall & storefront; Contract Hardware, Rockville, MD, hardware supplier; P & P Contractors, Rockville, MD, gypsum board contractor; HIVA, Columbia, MD, gypsum board contractor & acoustical treatment; GLB Tile Co., Washington, DC, ceramic tile; SPN Enterprises, Inc., Ft. Washington, MD, carpet; Ronald D. Mayhew, Inc., Bristow, painting contractor, paint supplier & special wall finish; Glidden Paint, Cleveland, OH, paint manufacturer; Westinghouse Elevator Co., Beltsville, MD, elevator; Chesapeake Sprinkler Co., Glen Burnie, MD, sprinkler contractor; R. E. Kramer & Son, Inc., Kensington, MD, plumbing fixture supplier & plumbing/heating/ventilating/air conditioning contractor; and Pinter-Zwicker Electric Co., Inc., Vienna, lighting fixtures/electrical equipment supplier & electrical contractor.



Southern States Service Store Renovations

DePasquale & Associates—Architect

New Prototype • Owner Southern States Cooperative, Inc. • Location, Vienna

General Contractor, Sherman Construction Corporation.

OWNER'S PROGRAM

The program for these prototype alterations and additions to an existing store arose from a concerted effort by the owner to update and upgrade the appearance of many of its stores to keep pace with a changing market and increasing competition. The stores, all similar in layout and appearance to this one, were originally located in rural areas but are now surrounded by suburbs due to growth in nearby urban areas. Accompanying this change is a shift in the market — once agricultural in nature, it now is composed primarily of homeowners, homemakers, and others interested in home improvement.

The influx of home-oriented consumers provides the owner with the opportunity to capitalize on year-round sales of garden and greenhouse merchandise, home-oriented hard goods, and the always present agricultural supplies. The designer's task, therefore, would concern marketing almost as much as architecture. The owner realized that quality design could be a powerful marketing tool, creating a striking impression which would stand out among competitors and invite the public to patronize the stores. To help create a new image for the stores, the owner wanted a strong commercial statement, reinforced with appropriate symbolic use of colors and graphics.



CONTEXT

The building is located at a busy suburban intersection along the main commercial artery of a medium-sized town. It is a simple, even mundane, 1950's Moderne style building with a dated look. It is well exposed, but lost amid the commercial clutter.

DESIGN SOLUTION

Straightforward organization of primary architectural components and attractive, eye-catching colors and materials characterize the design. The addition skins the front of the building, providing continuity to the whole while still defining the various functions within the building. Consistent use of contrasting yet harmonious materials — dark green standing seam roof and buff colored scored block — clearly identify old and new, thus implying a changed image. A wide fascia acts as a datum, integrating the various parts and unifying the addition and the original building. Each element of the design makes a statement about a particular function within the building. The gable roof form defines and emphasizes entry, and provides space for signage. The shed roof behind it, spanning three bays of the colonnade, increases the visual impact of the gable roof and denotes the indoor sales area.

The greenhouse, enclosing the colonnade and thus interlocking with the former elements, provides commercial exposure and advertises the store's wares by bringing them to the forefront of attention. The greenhouse also provides a link to the hip roofed Garden Pavillion. This element is the "punctuation mark" of the design. Its singular form and prominent position capture attention and lead the eye in progression to the entry. The various roof forms — gable, shed, and pyramid — have identical slopes to increase their harmony. All provide a contrast to the simple box of the original building. The color of the new roofing is significant as well, chosen by the designer because of its marketing associations with garden and farm products. The designer also organized a new signage system, to reinforce the store's new image. The "Farm-Home-Garden" slogan was the designer's idea, stating verbally the various functions of the store, implied visually by the different elements of the design.

CONSTRUCTION CREDITS

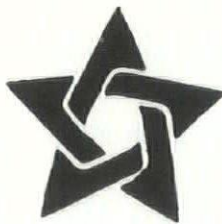
Sherman Construction Corporation of Vienna was general contractor and handled excavating, concrete work, wall and foundation insulation, carpentry, structural wood, waterproofing, caulking, and plaster and gypsum board work.

SUBCONTRACTORS & SUPPLIERS

Trowbridge Steel Co., Inc., Sterling, reinforcing; Virginia Concrete Co., Inc., Vienna, concrete supplier; Pyramid Masonry, Arlington, masonry contractor; Virginia Clay Products, Ashland, masonry manufacturer/supplier; Hammal Steel, Sterling, steel erection, miscellaneous metal & handrails; Rose Roofing Co., Falls Church, built-up roof; Dominion Insulation, Woodbridge, roof insulation; and Tart Lumber & Millwork Co., Inc., Sterling, millwork.

Also, Lowe's of Vienna, Vienna, paneling; George Fordham, Rockville, sheet metal; Dulles

Glass Co., Inc., Manassas, glass, glazing contractor, windows & storefront; Builders Hardware Corp., Rockville, MD, metal doors & frames; ACI, Merrifield, acoustical treatment; Smith & Co., Warrenton, painting contractor; Winslow Paint & Wallpaper, Vienna, paint supplier; Benjamin Moore Paints, Chester, paint manufacturer; R.D.R. Contracting Co., McLean, greenhouse; American Mechanical Contractors, Inc., Tyson's Corner, plumbing contractor; Weather Masters, Inc., Chantilly, heating/ventilating/air conditioning contractor; and Werner Electric, Sterling, lighting fixtures/electrical equipment supplier & electrical contractor.



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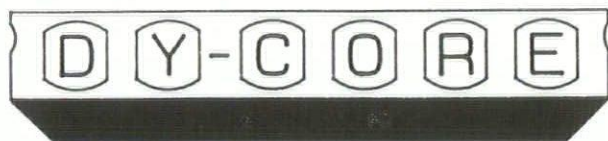
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Pilgrim Village

Caro, Monroe and Liang—Architect

Location: York County

Project Architect, Kevin A. Panchision, AIA • Site Design, J. J. Alfonso, C.L.S. • Interior Design/Furnishings Display, Drexel-Heritage • Mechanical/Electrical Engineer, M. J. Thompson, III, Consulting Engineers, Inc. • Structural Engineer, Stroud, Pence & Associates • General Contractor, Wm. B. Wyatt, Jr. • Photography, Kevin A. Panchision.

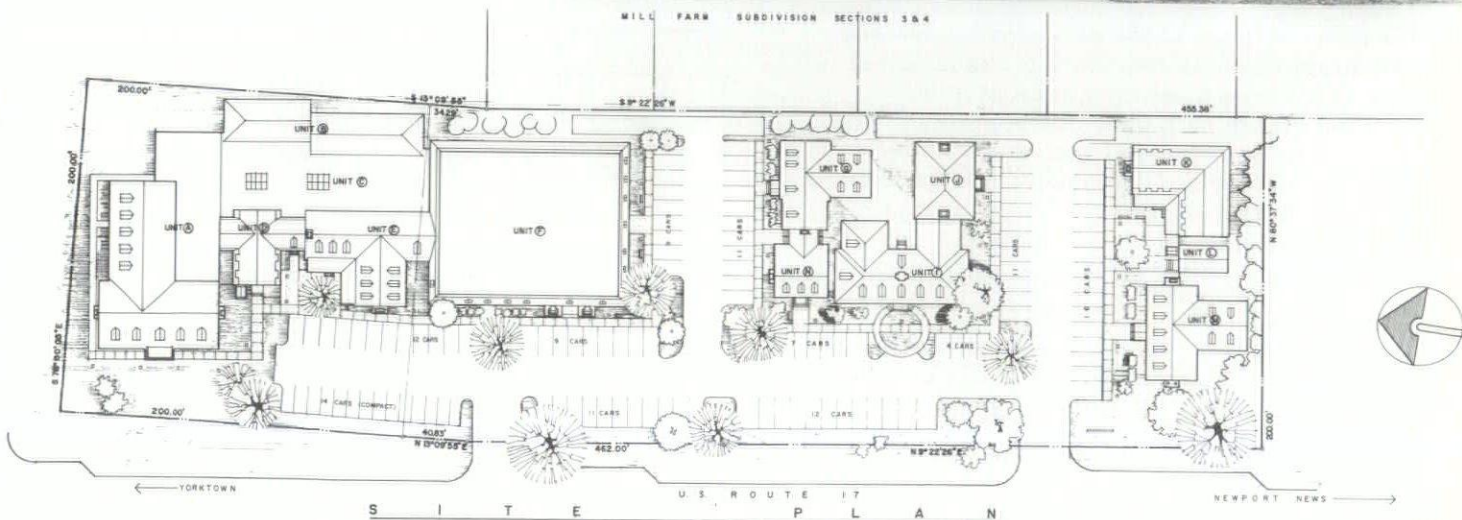
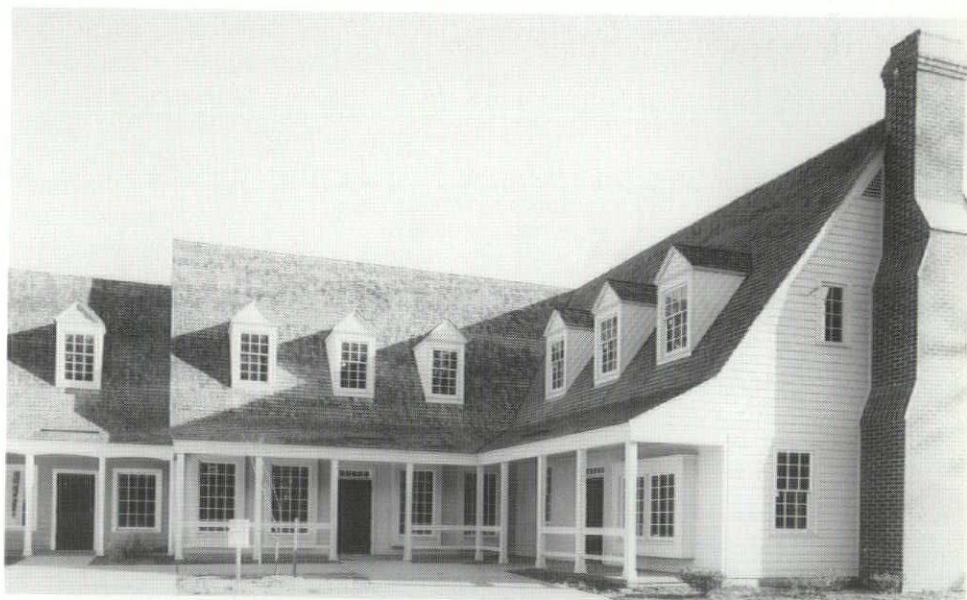
Pilgrim House Furniture, the original structure and cornerstone of Pilgrim Village, fronts on heavily-travelled U.S. Rt. 17 in historic York County. When the owner decided to expand his operations and create a showcase store for high-quality Drexel-Heritage furnishings, with a regional market, he desired an authentic "Colonial village" atmosphere which could serve as a "one-stop shop" for the person interested in home-buying to home-furnishing.

Recently completed is the first phase of a proposed three-phase development, encompassing a total of 3.2 acres. Included in the first phase are the Drexel-Heritage showrooms as well as space for home-improvement-related businesses, such as a paint and wallcovering shop, carpet showroom, and offices for real estate, surveyor, architecture, or interior design tenancy. Future phases of development may include clothing shops, a bank, fine restaurant, and gourmet food shop.

To the south, the two-story Drexel-Heritage showroom (Unit "F") is laid out in a sequence of individual thematic room displays, with custom lighting and decorating to highlight particular furniture groupings. To the north, the existing furniture showroom (Unit "A") is similarly organized and both buildings are connected by a Garden Shop (Unit "C") for display of porch, pool and patio furnishings. The Garden Shop evokes the image of a protected inner courtyard, providing natural light with skylights and views onto landscaped courts open to the sky.

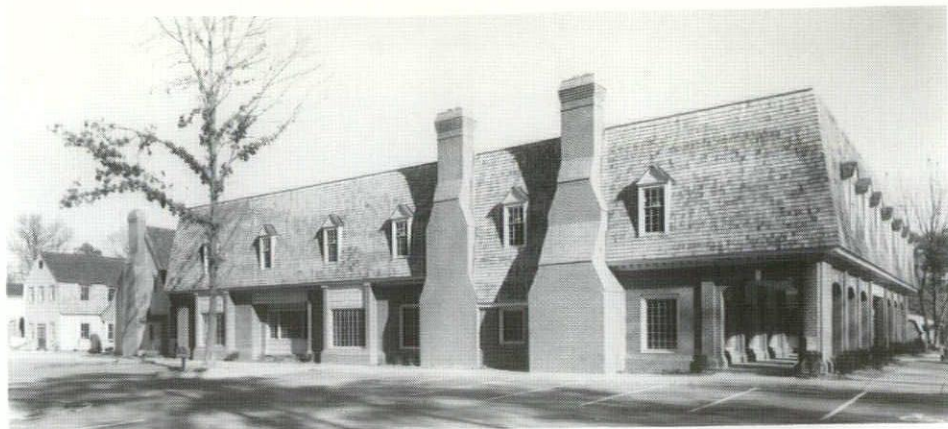
Three wood-frame-&-siding Tenant Shops (Units "D" & "E") serve as infill, and open to both the landscaped walks in front and to the Garden Shop in the rear, allowing the owner's clients access to paint, carpet and wallcovering selections to complement furnishings. Rental offices occupy the second floor.

Detailing, including wood trim and operable fireplaces, has been patterned after authentic Colonial Williamsburg landmarks. Adjustments to proportions were necessary to accommodate long clear spans and HVAC systems between ceiling and floor. The existing Unit "A" is wood frame with brick veneer. Units "D" & "E" are



wood frame with open-web steel joists between floors. The Garden Shop (Unit "C") is open-web steel joist roof on wood frame and masonry bearing walls. Unit "F" is a steel frame structure with open-web steel joist floor and roof; walls are wood frame with brick veneer. All units are slab-on-grade.

The owner, Wm. B. Wyatt, Jr. of Yorktown, served as general contractor for the project.



SUBCONTRACTORS & SUPPLIERS (Newport News firms unless noted)

Jack L. Massie, Contractor, Inc., Williamsburg, excavating & paving contractor; L & H Concrete Co., foundations & concrete contractor; Hall-Hodges Co., Inc., Norfolk, reinforcing; Benson-Phillips Co., Inc., concrete supplier & mortar; B. Dennis Hudgins, Poquoson, masonry contractor, stonework contractor & waterproofing; Brick & Tile Corp. of Lawrenceville, Lawrenceville, masonry manufacturer; Lone Star Industries, Inc., Norfolk, masonry supplier; Custom Concrete Products, stonework supplier; Hughes Steel Co., Inc., Mechanicsville, steel supplier/erection/joists/roof deck/grating, other roof deck & miscellaneous metal; L. C. Heath Roofing, Inc., built-up roof & roof insulation; Clark's

Roofing, Bena, other roofing; Carr Smith Co., Inc., Hampton, wall insulation; and Whitlock Brothers, Inc., Norfolk, foundation insulation.

Also, Waterfront Lumber Co., Inc., handrails & millwork; Altra Builders, Inc., Gloucester, carpentry paneling & cabinets; Addington-Beaman Lumber Co., Inc., Norfolk, structural wood; Bob Davis, caulking, glazing contractor & painting contractor; Comfort Center, Inc., sheet metal & heating/ventilating/air conditioning contractor; Lamberth Building Materials of Gloucester, Inc., Gloucester, wood doors; Marvin Windows, windows; Baldwin Brass of Williamsburg, Williams-

burg, hardware supplier; Morris February, Hampton, gypsum board contractor; Brunk Tile & Interiors, Inc., ceramic tile, structural (glazed) tile & terrazzo; Able Systems, Inc., Hampton, acoustical treatment; Pilgrim House, Yorktown, carpet & wall covering; Carolyn Kever, wall covering contractor; Bruce Flooring, Memphis, TN, hardwood flooring; Eley's, Inc., paint supplier (Martin-Senour Paints); Dover Elevator Co., Norfolk, elevator; Automatic Sprinkler Corp. of America, Richmond, sprinkler contractor; Herbert Clements & Son, Bellamy, plumbing contractor (Eljer fixtures); Noland Co., lighting fixtures/electrical equipment supplier; and Colony Electric, Yorktown, electrical contractor.



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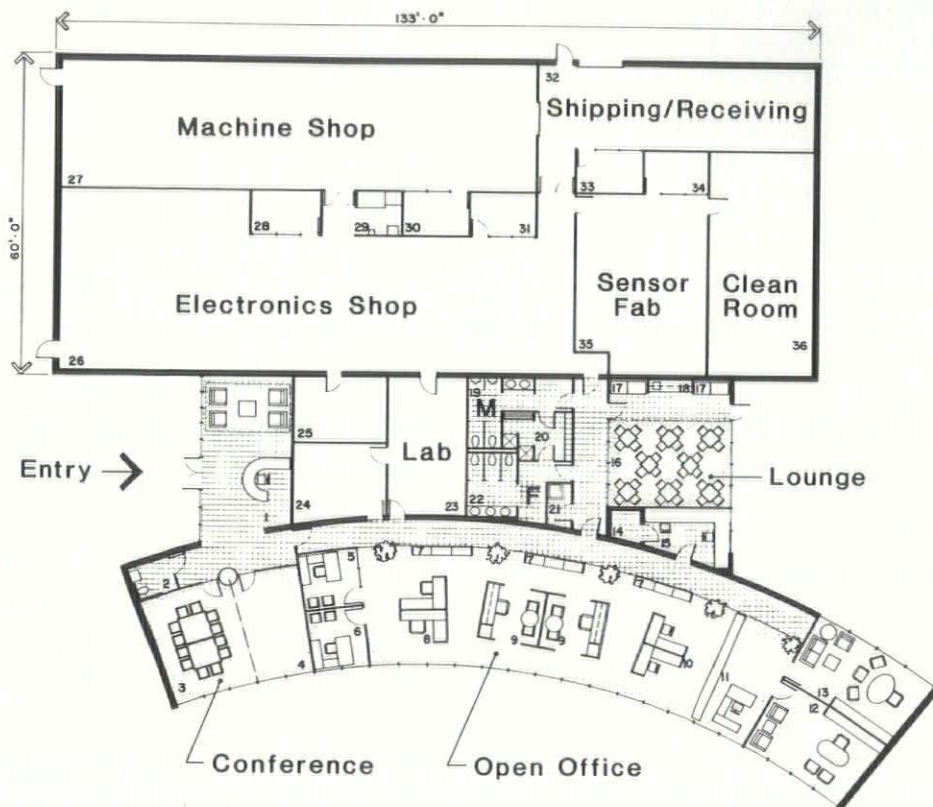
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Structural Engineer, Stroud, Pence & Associates • Mechanical Engineer, Cuppett Design • Site Design, G. Glenn Oder, RWK • General Contractor, Thomas Fulton & Associates • Photography, James K. Affeldt.

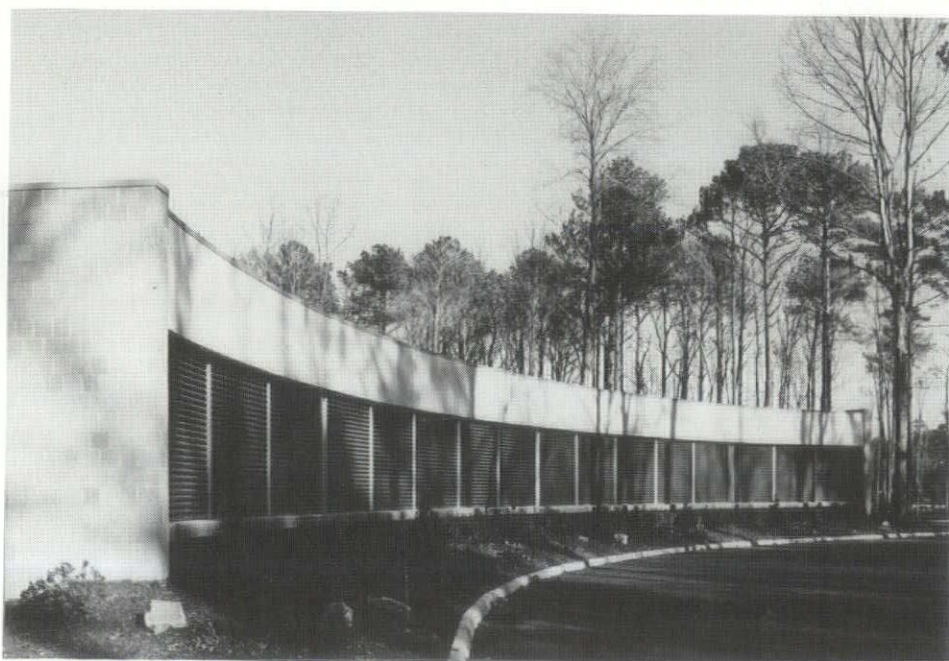
Pressure Systems, Inc. manufactures high accuracy, high data rate pressure measuring devices which use the Electronically Scanned Pressure (ESP) technique developed at NASA's Langley Research Center during the 1970s. This is a high-tech process which produces very sophisticated products with both aeronautical and industrial applications.

The company's success and growth generated a critical need for additional space. To satisfy their immediate needs 15,000 square feet was required, with roughly one-third devoted to administrative areas and two-thirds to manufacturing space. While budgetary considerations limited the building program, the owners were specific in their requirement that future expansion must be accommodated.

Future expansion of the PSI facility and additional tenant space could easily occur on the 7.5 acre site they purchased in a Hampton industrial park. The site is heavily wooded, and its smallest dimension is at the street frontage.

The final design solution has PSI's arced administrative area as a visual focus from the street entrance. Using support functions as a connecting link, a higher building element houses the larger manufacturing operations to the rear. This arrangement allows for a linear expansion along the site's longest axis. Employee parking and shipping/receiving are also easily separated at the site entry, and initial site development costs are minimized.

Active solar blinds were provided along the glazed office facade to counter the solar heat gain in the summer. Conversely, they allow heat gain during colder weather, and may be closed to retain the heat gained when the building is unoccupied, with the obvious savings in operat-



ing costs. Effective use of daylighting and automatic switching of lighting fixtures also offered savings in operating costs.

General Contractor for the project is Thomas Fulton and Associates of Hayes, Virginia.

SUBCONTRACTORS & SUPPLIERS

Hampton firms were: Chesapeake Masonry Corp., masonry contractor; Virginia Steel, Inc.,

steel supplier; The Tile Shop, Inc., ceramic tile, resilient tile & carpet; Tidewater Plumbing & Heating Corp., plumbing/heating contractor; and Newsome Air Conditioning Co., Inc., air conditioning contractor.

From Newport News were: York Development Corp., site work; Hill Concrete Construction, Inc., concrete contractor; Ducks Roofing Co., Inc., roofing; Walker & LaBerge Co., Inc., glass &

glazing contractor; Paul's Plaster & Acoustics, plaster contractor; Broccuto Drywall & Acoustics, Inc., gypsum board contractor & acoustical treatment; and Essene Painters, painting contractor.

Others were: The Wood Joint, Hayes, cabinets; Door Engineering Corp., Norfolk, metal doors & frames; Robert F. Harris, Grafton, electrical contractor; and W. H. Stovall & Co., Inc., Ashland, solar blinds.

TRAVELERS' GUIDE

Architectural Ornamentation by Louis Sullivan On Display at Octagon Museum Through July 6

More than 40 original fragments of building ornament designed by architect Louis Sullivan, FAIA, will be on display in "Louis H. Sullivan:

Unison With Nature," May 6-July 6, at the Octagon Museum, 1799 New York Avenue, N.W., Washington, D.C.

lacy ornamentation of a bronze teller's wicket at a Minnesota bank (1907). Both examples are in the show.

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The traveling exhibition, which contains some reproductions, includes pediments, door panels, ceiling screens, elevator grilles, windows and other works executed in such materials as terra-cotta, wood, iron and copper. Now housed in the Louis H. Sullivan Architectural Ornament Collection at Southern Illinois University at Edwardsville (SIUE), the fragments come from residences, theaters, office buildings, stores, a library and banks constructed between 1881 (soon after the formation of Sullivan's partnership with Dankmar Adler) and 1919 (when Sullivan was working alone).

A posthumous recipient of the AIA Gold Medal, Sullivan (1856-1924) is best known for his contributions to the development of the American skyscraper and for his intricate and organic architectural ornament. His designs, he wrote in *A System of Architectural Ornament*, symbolize the natural world, universal life forms and basic rhythms of life.

Evolving in terms of detail, relief and motion, Sullivan's design system was based on plant forms—flowers, pods, leaves and vines—and included Gothic revival, Egyptian and geometric influences. His work ranged from the flower and rosette forms of a limestone lintel on Chicago's Revell Building (1881-1883) to the delicate and

SIUE's Louis H. Sullivan Architectural Ornament Collection was initiated in the early 1960s to systematically save as many of Sullivan's best works as possible. For more than 20 years, architectural photographer and historian Richard Nickel negotiated with building owners, wrecking companies and workers to save tons of Sullivan's ornamentation from buildings slated for demolition. Nickel lost his life when the old Stock Exchange Building in Chicago collapsed during a retrieval effort. Now numbering several hundred pieces from 28 buildings, the collection also conserves and restores these works, most of which have been weathered through time, environmental dirt and pollution, vandalism and previous restoration efforts.

Grants from the Illinois Arts Council, the Institute of Museum Services and the SIUE Graduate School to SIUE's Office of University Museums made the exhibition possible. Its appearance at the Octagon Museum is supported by a generous grant from the College of Fellows Fund of The American Institute of Architects.

A national historic landmark, the Octagon Museum is the oldest museum in the United States devoted to architecture. Its restored period rooms and galleries are open to the public Tuesday through Friday from 10 A.M. to 4 P.M., and Saturday and Sunday from 1 to 4 P.M. The Octagon is closed on Mondays and major holidays.

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Davis Residence

A. J. Davis, AIA, Architect

Owner: A. J. Davis • Location: Blacksburg

Project Architect/Designer, A. J. Davis, AIA • Presentation Drawings, Bill Galloway • General Contractor, Adamo Building Corp. (Peter Adamo) • Photography, Daniel Terrell.

SITE/MICROCLIMATE

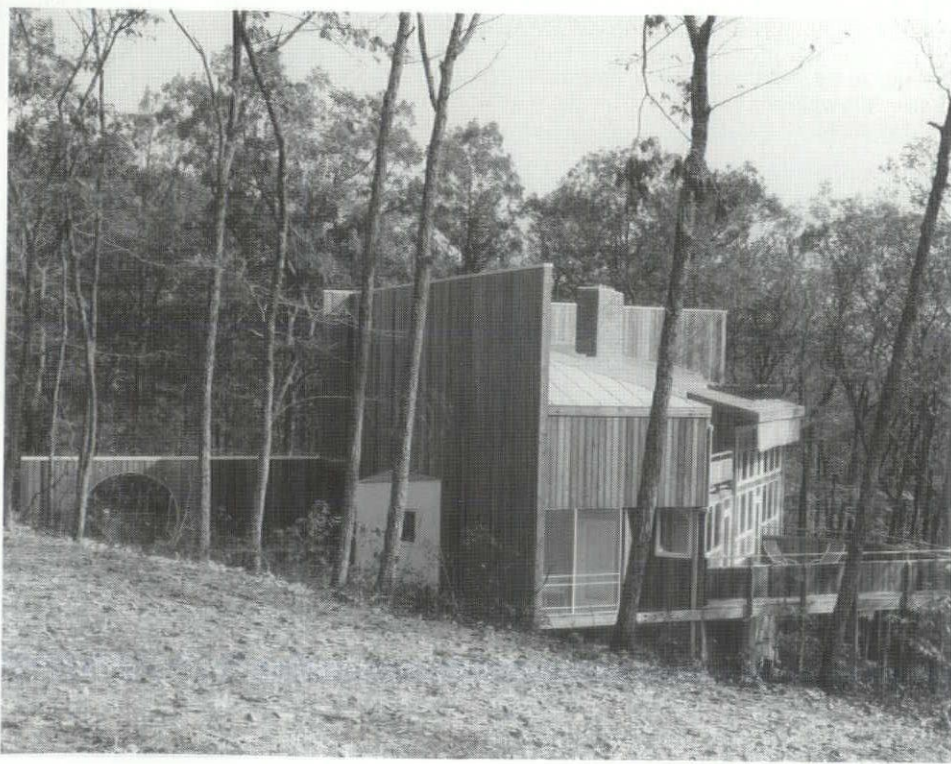
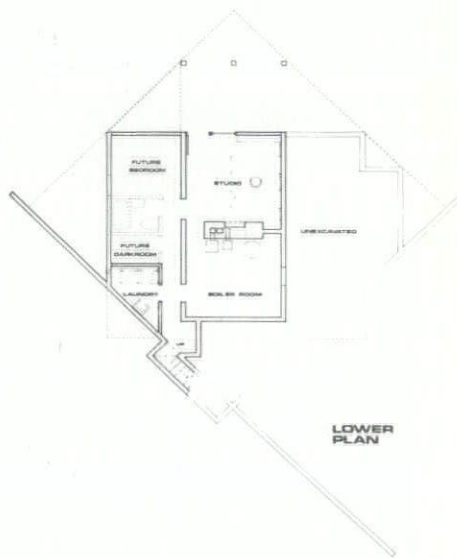
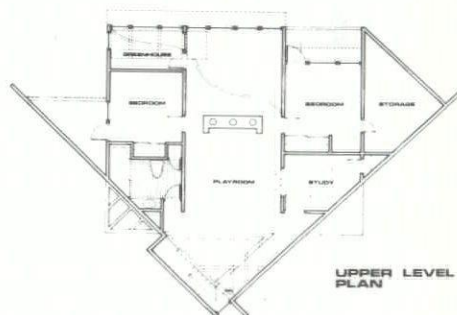
The site is a five acre, wooded lot, adjacent to a National Forest, on a south facing slope atop a mountain. The elevation of the house is approximately 2650 feet above sea level, with a view toward the town of Blacksburg. The wind blows, often quite harshly, about 300 days of the year. Average annual snowfall is about 25-30 inches a year, slightly higher than Blacksburg. Temperatures often go as low as -10°F in the winter, and in the 90s in the summer. Because of the mountain location the primary weather design concern is to conserve heat.

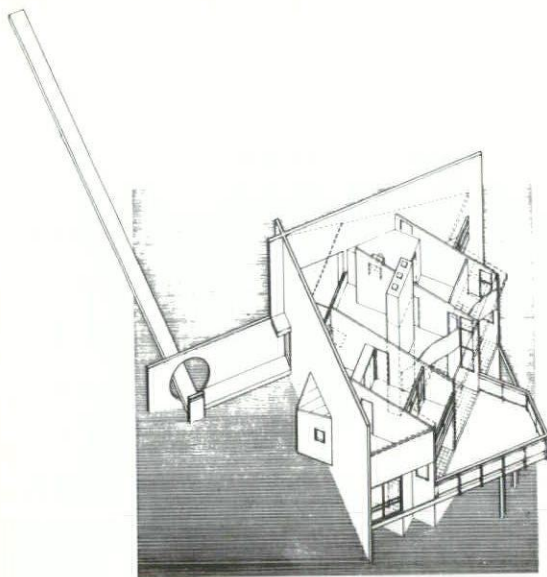
The house is located in a hollow. The primary reason for this was wind protection, however it did afford a mid-level, on-grade entry. Visiting the site many times during stiff winter winds, the owner/architect found the hollow to offer the best protection from the wind. This location gave a good view but if view was the primary issue, other house locations existed. This house location also afforded a short range view of large rock out-croppings that became the basis of the entry design. The hollow faced due south which was important for solar gain. The elevation drop from entry to lower level exit was approximately 15 feet.

DESIGN

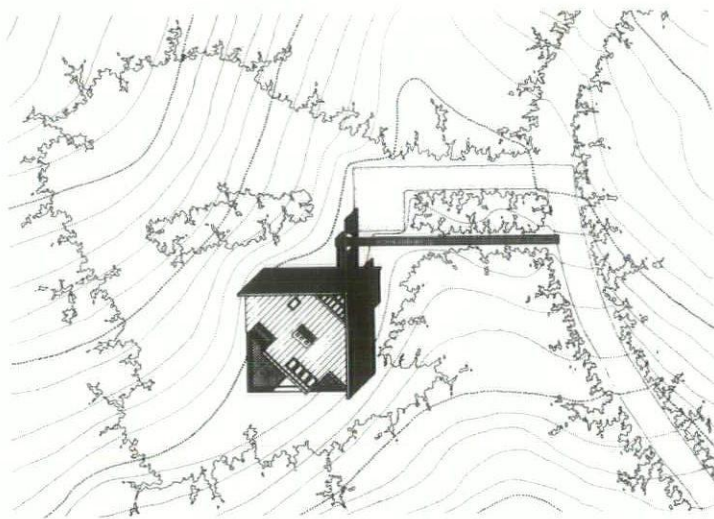
Situated in the hollow for natural wind protection, the house is also protected on the north and west by two walls that embrace the main body of the house; much as two open hands with their wrists touching. The floor plan sits juxtaposed to these walls at 45 degrees, using the walls for support and protection. The area between the rectangular floor plan and the walls is used for private and public outside decks. The house has five decks, one for each of three bedrooms, the dining room and, the largest, off of the sunroom. Two corners of the rectangular floor plan penetrate the two walls giving emphasis to both the walls and the plan. One wall extends northward to give definition to the entry.

The entry sequence begins at a parking area for the owners and further away to the entry drive for visitors. The entry walk encourages a view of the rock out-cropping through a 9' circle. The entrance then changes direction as one approaches the entry door. Once inside, spacial layering becomes the main issue. This is intended to work both vertically as well as horizontally. The entry is two stories, with a triangular planter wall on the upper level and a large triangular job-built skylight at the roof, which





AXONOMETRIC



allows light to penetrate deep into the house. Other two-story spaces are in the sunroom and greenhouse. Besides the enjoyable spacious feeling, they allow passive solar and wood heat from the floor and chimney core to rise to the upper level.

The chimney core is in the center of the plan, purposely blocking the entry view as well as making the sunken living room more contained and intimate. The kitchen has a small job-built skylight over the portion cantilevering from one of the main two walls. All skylights are framed in fir with natural finish. The upper greenhouse has four operable Velux skylights for ventilation and heat control. Suspended from the roof overhang is a bright yellow awning that rides on shrouded stainless steel stays and can be manually lowered in the summer to retard solar penetration. The total heated square footage is less than 2600. Approximately 30% of the heat required is solar. On the main entry level is a fireplace and woodstove. The lower level has both a wood and an oil boiler. Either may be operated by the three radiator loop zones.

CONSTRUCTION/MATERIALS

The exterior walls are 2"x6" wood studs with 1"x4"s let horizontally into the vertical studs. The 1"x4"s act as nailers for the vertical cedar ship-lap siding and strengthen the walls against wind pressure. Under the siding is Tyvek wrap and 3/4" celotex insulation. In the wall is R-19 batt insulation and gypsum wall board interior finish. There was a conscious attempt to make the

house tight but not super-insulated. The siding was sealed with two coats of Thompson water sealant, in an attempt to delay the greying of the cedar. The job-built skylights were constructed with laminated, insulated glass and aluminum glazing strips. The interior finish is fir with two coats of polyurethane.

The floor of the sunroom, greenhouse and tub room are 4" of concrete on metal decking and 14" steel joists. Any downward heat loss is welcome to the lower level. The most complex construction is in the floor assembly under the curved upper level wall. A plywood and cripple stud diaphragm was cantilevered off of the main diagonal support beam. This was accomplished with no drop beams or columns. Retaining walls and support walls under the steel joists are concrete block. The fireplace is quite complicated with four flues and book recesses in an 8'x3' shape. The roof is unpainted standing seam galvanized metal, with built-in gutters all formed in galvanized metal.

Owner/Architect, A. J. Davis, AIA is currently an Associate Professor at VPI&SU. He was formerly a Project Architect for Cambridge Seven Associates of Cambridge, MA.

CONSTRUCTION CREDITS

Adamo Building Corp. (Peter Adamo), of Blacksburg, was general contractor and handled founda-

tions, concrete work, steel erection, steel joists, handrails, carpentry, structural wood, millwork and waterproofing.

SUBCONTRACTORS & SUPPLIERS

Other Blacksburg firms were: Anchor Construction Co., Inc., excavating; Atlantic Concrete, Inc., concrete supplier; and Davis & Son Painting, caulking & painting contractor.

Christiansburg firms were: Greenspire Nursery, landscaping materials & landscaping contractor; Tri-City Concrete Products (now Marshall Concrete Products), masonry supplier; Home Insulation Co., roof & wall insulation; Ideal Cabinets, Inc., Woodmode cabinets; Precision Glass & Upholstery Service, glass & glazing contractor; Blue Ridge Timber Frames, Weathershield wood doors, windows & window wall; Earl Alderman, plaster contractor; DeHart Tile Co., ceramic tile, rubber tile & carpet; Sherwin Williams Co., paint manufacturer/supplier; and Linkous Plumbing, Heating & Electric Co., plumbing/heating contractor.

Others were: Richard Bower/W. S. Dunford, Riner, masonry contractors; John W. Hancock, Jr., Inc., Salem, steel supplier; McCarty Roofing, Roanoke, roofing & sheet metal; Forms & Surfaces, Santa Barbara, CA, exterior hardware supplier; Architectural Hardware, Inc., Richmond, Quickset interior hardware supplier; Ralph J. Holmes Drywall, Radford, GWB drywall; New England Wood Stove Store, Salem, Englander wood stove; Franke, Inc., No. Wales, PA, kitchen sink; Sunnyside Awning & Tent Co., Inc., Roanoke, awning; Quincy & Assoc., Plymouth, NH, Tasso, heating equipment; Fittings, Inc., Boston, MA, Gaggenau kitchen oven; Goldberg Co., Inc., Richmond, Dacor kitchen stove; The Swan Corp., St. Louis, MO, shower; Kroin, Cambridge, MA and Fittings, Inc., Boston, MA, plumbing fixture suppliers; Robert S. Lovelace Co., Richmond, Runtal radiators; Velux-America, Norcross, GA, skylights; Conrans, Monroe Township, NJ, lighting fixtures supplier; and Sundown Electric, Inc., Elliston, electrical contractor (Eagle Brand switches & outlets).

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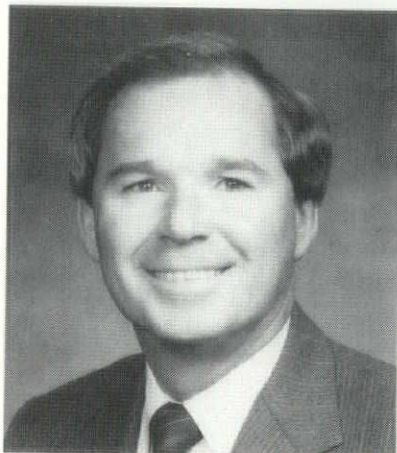
Hudgins Elected as National Director

Lester L. Hudgins, Jr., President of Hudgins Construction Co., Inc., has been elected as a National Director to the Associated General Contractors of America.

As a Director, Hudgins will represent AGC of Virginia at national meetings. His responsibilities will include planning and conducting business for AGC of America. He assumed his duties March 25 and will serve for a three year period extending through March of 1989.

The Associated General Contractors of America is a construction trade association representing more than 8000 general contracting firms and 20,000 associated firms.

In addition to his position with the Newport News based Hudgins Construction Co., Inc., Hudgins is serving as immediate Past-President of AGC of Virginia, a Delegate on the National White House Conference on Small Business, Secretary and on the Board of Directors of the Builders and Contractors Exchange of Norfolk, and Past-President and member of the Virginia Association of Contractors.



Lester L. Hudgins, Jr.

Patton, Harris, Rust Staff Expands

Patton, Harris, Rust and Associates, P.C. has announced the addition of James B. Roote, Landscape Architect, and Elizabeth A. Stein as Design Engineer for the firm.

Mr. Roote has over 20 years experience in landscape architecture, including two years as an instructor at West Virginia University. He received his Bachelor of Landscape Architecture degree at University of Georgia and his Bachelor of Business Administration degree from Memphis State University.

Mr. Roote recently published a text book entitled *Fundamentals of Landscaping and Site Planning*.

Ms. Stein recently graduated from Union College with a Bachelor of Science in Civil Engineering. She was formerly employed by Fairfax County.

Patton, Harris, Rust and Associates, P.C. is a full service engineering firm, ranked in the top 350 in the National Engineering News Record. The firm employs over 150 people and currently has offices in Fairfax, Leesburg and Bridgewater, Virginia and Rockville, Maryland.

Plant Modernization Increases PC GlassBlock® Production Capacity

Pittsburgh Corning Corporation cites continuing popularity and a steadily increasing demand for PC GlassBlock® products as the primary reason for a second modernization within five years of its pressed glass manufacturing facilities at the Port Allegany, Pa. plant.

After the shortest shutdown period for modernization in its history, less than eight weeks, Pittsburgh Corning's Port Allegany plant is back on-stream, manufacturing the full line of PC GlassBlock® products. A major increase in capacity has been established to fulfill the demands of architects, building owners and homeowners.

"Architectural and residential demands for PC GlassBlock® products have been very strong," says Jon G. Chase, Vice President — Sales and Marketing, "and as the only U.S. manufacturer of glass block, we intend to satisfy those requirements."

He continued, "We want to assure the availability of an American-made product and maintain our position in the marketplace." Chase

Addition Under Way on Newport Square

The Investment Group, real estate syndicators based in Washington, D.C., announces the addition of 12,250 square feet of space to Newport Square Shopping Center in Newport News. The existing center is owned by Newport Square Partners Limited Partnership, and is managed by Drucker and Falk. The shopping center was the corporation's first commercial venture into this part of the state.

Lasal Construction of Newport News has already begun work on the approximately \$700,000 addition. Completion is projected for late summer. Retail tenants will occupy the new addition and space is still available for lease.

The Investment Group and its affiliates serve as general partners in two office buildings, 2,500 apartments, 1.2 million square feet of retail space, and additional subsidized housing. A principal of the Investment Group is Conrad Cafritz, affiliated with Potomac Real Estate Group, Inc., general partner of the ownership.

says he anticipates worldwide PC Glassblock® sales and distribution of products in the future.

According to Pittsburgh Corning, these commitments made it necessary to make the capital outlay for increased production-line capabilities at its glass block manufacturing facility.

Pittsburgh Corning Corporation has been manufacturing PC GlassBlock® products in the U.S. for nearly 50 years. Recognized as the industry leader in the manufacture of glass block products, the company has more than 150 distributors and distributor/fabricators in the U.S. and Canada. Pittsburgh Corning also provides technical services and expertise to architects and specifiers nationwide.

Quality PC GlassBlock® products are used for architectural, industrial and residential applications.

In addition to PC Glassblock® products, Pittsburgh Corning manufactures FOAMGLAS® cellular glass insulation and TEMP-MAT® fibrous glass insulation for commercial, institutional and industrial construction and renovation.

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Three Boxley Quarries Honored with National Awards

The W. W. Boxley Company has been nationally recognized with three first place awards for beautification.

Boxley quarries in Blue Ridge, Lynchburg and Emporia were honored by the National Stone Association (NSA) at its annual meeting in February in Las Vegas.

The NSA About Face Program honors quarry beautification, reclamation and community relations projects. Boxley received one-quarter of the Showplace Awards given. The company represents only one-half of one percent of the 1,800 quarries in operation nationwide.

"We started from the inside of each quarry and worked our way out to give each a total cleanup not just a cosmetic lift," said Abney S. Boxley, III, manager of corporate development.

"When a quarry looks good, our people take more pride in their jobs and maintain a better safety record," added Boxley. "The investment of time and money in the cleanup showed our commitment to providing a safe and attractive environment for our workers."

"A better looking quarry also makes more than an economic contribution to the community."

Boxley quarries have in the past won NSA

awards for progress made toward quarry beautification. The Outstanding Achievement Award was bestowed on the Blue Ridge quarry in 1978 and the Emporia quarry in 1984.

W. W. Boxley Company operates nine quarries and a distribution point in Virginia and West Virginia.

DED Names Gibson To Marketing Post

The Virginia Department of Economic Development has named C. Robert Gibson of Richmond to the position of Marketing Manager.

As a Marketing Manager, Gibson will be responsible for marketing Virginia to industries in New York state, the New England states and Canada. He will also assist companies from these areas through the site location process.

Gibson's professional experience extends to both banking and manufacturing. Prior to joining the Department of Economic Development, he was a Field Sales Manager with the Westvaco Corporation in Richmond.

Gibson is a graduate of Virginia Commonwealth University, with a Bachelor's degree in Business Administration, and he lives in Richmond.

Airport Commission Names T.A. Daniel

The Capital Region Airport Commission announced that Thomas A. Daniel has been named director of engineering and maintenance. In his new capacity, Mr. Daniel will supervise the engineering and maintenance staff at Richmond International Airport and monitor airport-related construction projects.

A Blackstone, Virginia native, Mr. Daniel comes to Richmond International with over 20 years of engineering, administrative and construction experience. Previously, he served as a project coordinator for Algernon Blair International, Inc., one of the nation's major general construction contractors.

Mr. Daniel formerly served on the Virginia Power project management staff during the completion of constructing the world's largest hydroelectric pump storage facility.

Mr. Daniel holds a bachelor of science degree in Civil Engineering from VPI&SU and did graduate level studies in Business Administration at VCU. Additionally, he has had extensive training in contract administration.

Previously, Mr. Daniel served on the board of directors of the Home Building Association, as president of the Chester Jaycees, and president of the Chester Civic Association.

He and his wife, Shirley, reside in Chester with their four sons.

British Architect and FBI Chief Honored

Noted British architect James Stirling and William H. Webster, director of the Federal Bureau of Investigation, were honored at the University of Virginia on Monday, April 14, during the University's celebration of the birth of its founder, Thomas Jefferson.

Stirling was presented the Thomas Jefferson Memorial Foundation Medal in Architecture, and Webster received the Thomas Jefferson Memorial Foundation Award in Law.

The annual awards, recognizing distinguished contributions to two fields that strongly interested Jefferson, are sponsored jointly by the University and the Thomas Jefferson Memorial Foundation, which owns and operates Monticello, the third president's home.

Stirling, who is one of the world's leading architects, gave a public address Monday, April 14, in Culbreth Theater. He and Webster were presented their awards in a University ceremony attended by invited guests earlier that day.

As the Jefferson law award recipient, Webster will return to the University in the fall for a visit that will include informal meetings with law students and faculty and a public talk.

Stirling, who is known especially for his forcefully designed buildings constructed on university campuses, is a former winner of the annual \$100,000 Pritzker Prize, often called the "Nobel Prize of Architecture," as well as Great Britain's prestigious Royal Gold Medal in architecture.

Born in Glasgow, Scotland, in 1926, and raised in working-class Liverpool, he was educated at the Liverpool School of Art, the University of Liverpool School of Architecture, and the School of Town Planning and Regional Research, London. During World War II he served as a paratrooper officer and participated in the D-Day landing. He has practiced architecture in London since 1953.

His elegant designs have been exhibited at the Museum of Modern Art in New York, the Venice Biennale, the Walker Art Center in Minneapolis and the Leo Castelli Gallery in New York, among other places, and he also has won the Brunner Award of the U.S. National Institute of Arts and Letters and Finland's Alvar Aalto Medal. He is an associate of the Royal Institute of British

Architects and is Davenport Visiting Professor of Architecture at Yale University.

His designs and projects in Great Britain include neighborhood housing and such university campus works as the engineering faculty buildings at the University of Leicester, the history department building at Cambridge University and dormitories and an art center for the University of St. Andrews, Scotland. He has also designed museums in Stuttgart, Dusseldorf and Cologne, West Germany, as well as other public buildings in Europe and the Near East. His designs in the United States include an expansion of the architecture school at Rice University, a major new building at Cornell University and an addition to Harvard University's Fogg Museum.

Webster, who received a B.A. degree from Amherst College and a J.D. degree from Washington University Law School, took office as director of the FBI in 1978 and is the bureau's third permanent chief.

He served as a lieutenant in the U.S. Navy in World War II and again in the Korean War. From 1949 to 1959 he was a practicing attorney with a St. Louis law firm, and he served as U.S. attorney for the Eastern District of Missouri from 1960 to 1961 before returning to private practice. From 1964 to 1969, he was a member of the Missouri Board of Law Examiners.

In 1970, Webster was appointed a judge of the U.S. District Court for the Eastern District of Missouri and in 1973 was elevated to the U.S. Court of Appeals for the Eighth Circuit. He resigned on Feb. 23, 1978, to become director of the FBI. During his service on the bench, Webster was chairman of the Judicial Conference Advisory Committee on Criminal Rules and was a member of the Ad Hoc Committee on Habeas Corpus and the Committee of Court Administration.

He is a member of the American Bar Association, the Council of the American Law Institute, the Order of the Coif, the Missouri Bar Integrated, and the Metropolitan St. Louis Bar Association. He has also served as chairman of the Corporation, Banking and Business Law Section of the American Bar Association and is a fellow of the American Bar Foundation.

Morton G. Thalheimer Building Dedicated by HCV

What do an old tobacco warehouse and a former leader and great philanthropist of Richmond's real estate community have in common? The two came together on April 22, 1986, when the Health Corporation of Virginia dedicated the Morton G. Thalheimer Building.

The property was purchased in 1982, and has since been renovated for use by the Health Corporation of Virginia. The dedication took place at the building, located at 1615 Rhoadmiller Street in Richmond's Northside. The dedication speaker was Dr. George Modlin, Chancellor of the University of Richmond. A reception and tours of the building followed the ceremony.

The building was redesigned by Baskerville & Son, and construction was completed by J. Kenyon Perrin Construction Company, Inc.

The Thalheimer Building will house several operations, including Westwood Home Health Services, the Westwood Hospice, and HCV's Occupational Health program. The Marketing Department, Accounting Department, and Business Office of the Health Corporation of Virginia will be at the new location, as will the Print Shop and General Stores area.

The building is also the site of a new Richmond cafe, The Atrium, which will cater to the needs of HCV employees as well as to the Richmond community.

Morton G. Thalheimer was honored not only for what he did, but even more for who he was. The Morton G. Thalheimer Building will stand as a symbol of the growth of a community, not-for-profit health care system, and its ability to further serve the Richmond community.

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