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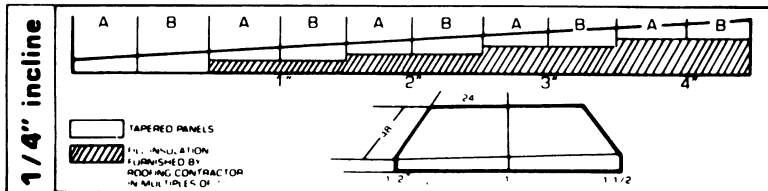
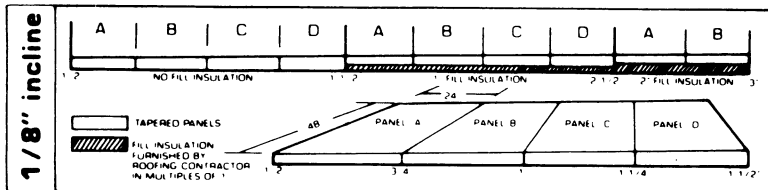
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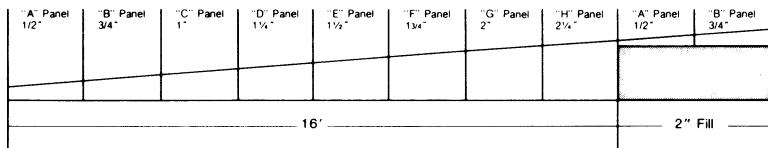
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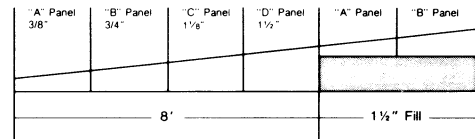
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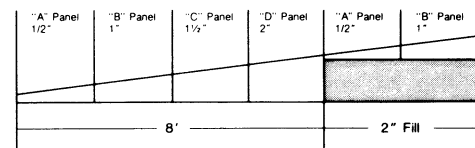
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Featured on page 21 of this issue, Montebello, was designed by the Washington, DC firm of Holle, Lin & Shogren Architects, PC. Cover photo by Harlan Hambricht.

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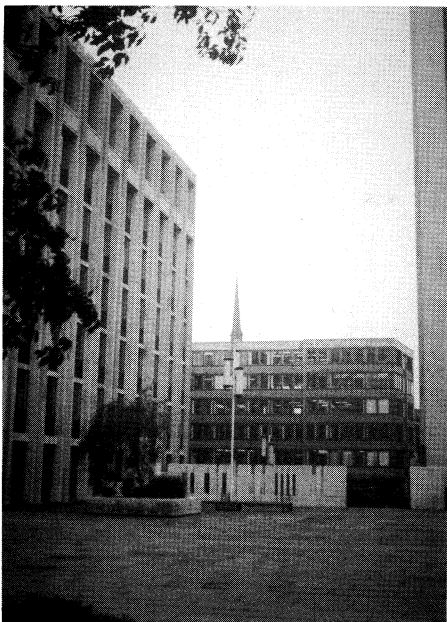
architectonica

Petula Clark Said it All, in 'Downtown.'

When it comes to cities, there is but one thing certain: they are going to change over time. About the only things left in London and Boston, respectively, from their earlier days are the Old Curiosity Shop and Paul Revere's House. The rest of these cities are 19th and 20th century buildings.

A city planning professor of mine once imagined the future of American cities thusly: a string of high-density commercial nodes connected in a circular pattern around a vast park, where the old Downtown used to be. The model stemmed from observation of the collapsing physical condition and land values in the Eastern cities, together with the growth of suburbs after WW II. Today, the closest thing that comes to mind which comes anywhere close to his prediction is the South Bronx. Even there, people like Jimmie Carter-the-Carpenter-Foreman interfere to prevent the South Bronx from becoming a rival to Central Park.

Market forces in the dynamic city are forever boosting and revitalizing one sector as they ignore another. The economic potential of Downtown became known again in the '70s, as the relationship between land values and rental income made investment sense again. There are commercial nodes for sure in the suburbs, but they are radially linked to the central city rather than forming an interconnected ring.



Rebuilt London in the shadow of St. Paul's, a Wren spire beyond as a symbol of the "first" London renewal.

Hiroshima and Nagasaki. Cologne and Munich. London and Coventry. These cities should have given the lie to Professor Wagner's vision. They provide his condition of complete central city physical devastation, of course for reasons other than economic abandonment. But they were all rebuilt with alacrity. The city centrums are too conveniently valuable to leave open.

One might cite such local exceptions as Boston's Common and Public Garden, New York's Central Park, Washington's Mall, and Paris' Tuileries, large open spaces in the center of cities. None were the result of anything other than governmental action, either to preserve grazing rights or to create by royal fiat the Grande Espace. Left to the marketplace, these open spaces would have been built over long ago. As it is, they are only vulnerable to the needs of museum directors.

Revitalization through restoration and renovation is the rule of the day, as the economics of the construction industry jibe with a general yearning to preserve as much of the past as one can. Lower Broadway around Grace Church has hit bottom and is coming back, due to its convenient location and the quality of the old building stock. Richmond, too, is rebuilding its old Downtown, though it has a long way to go before it can rank as an urban center of activity. The place seems to roll up the sidewalks at 7 PM. Even much-maligned Rosslyn is livelier after dark.

Fairfax County now is home to over 600,000 people, 500,000 of whom are newcomers. It is bigger than Washington, D.C. But is it a city? It lacks a Downtown, it doesn't have a Mayor, yet it is past the stage of being a county. It is not yet a city, but it's on its way.

It now provides employment to a majority of its residents. The concept of everybody sleeping in Fairfax and working in Washington is fast disappearing. Tysons Corner is getting so congested as to make one avoid it at all costs in a car—as one would avoid downtown Pittsburgh. It has a daily newspaper. The Fairfax Symphony Orchestra is now of such quality that it has both loyal audience and international reputation.

What's missing in this urban concoction, however, is a Court House Square, a Cathedral, an Opera House, a Museum, an Umbrella Repair Shop, and a Bus Station all tightly grouped in the same area. Enclosed shopping malls don't count. There have to be trees and fireplugs and dogs in the essence of a city. And a central Post Office.

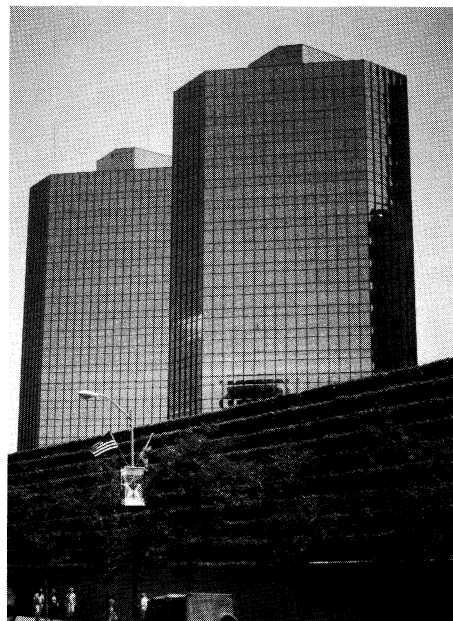
Professor Wagner wouldn't know what to make of Fairfax County. It's a city in the same way as



Rebuilt Downtown Cologne, done with high skill. The Dom spires are visible to the rear.

a galaxy appears to the naked eye as a single star. The elements are nearly all there but so spread out in the 400 odd square miles of territory as to be locally unrelated. One just needs to get enough perspective to see the big picture of Fairfax as being an urban place. After all, its government is sufficiently bureaucratized, it acts like a city, quacks like a city, but doesn't physically resemble any city I know. Call it an *oppidum* and beg the question.

Eason Cross, Jr., FAIA



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<< COMMENTARY >>

by Marvin J. Cantor, AIA

URBAN DESIGN. . . and the Golden Rule

Nowhere in the architectural field is more asked of the architectural designer with respect to recognizing one's neighbors' rights and privileges than in the field of Urban Design. It is here that one finds he or she does not exist in a vacuum—what one builds on one's own lot *does* materially affect neighbors to the right and left—and across the street.

This is brought home vividly when strolling through old city sections of some major European cities, like the Alfama in Lisbon, or the Barrio de Santa Cruz in Seville, where streets are usually no wider than 10 to 15 feet and in many instances, as narrow as three-and-a-half feet. On one street, I saw two buildings built side

by side with a three-foot alley between them, but at the roof level, either because of settlement, sloppy construction, or both, the buildings were touching. Here, cooking aromas, states of sanitation, degrees of aesthetics, all impinge on adjoining residents in no small degree!

What can we deduce from this? Simply, that urban design is not merely an exercise in solving a client's functional requirements, providing a space for shelter from the elements, adding to the city's tax base, housing equipment, or grouping workers in a centralized area. NO—it is all these plus recognizing the rights and sensibilities of neighbors. The architect who attempts to turn an urban design project into his

or her special *tour de force*, does not necessarily serve the city well.

It would appear, that Contextualism is really more than the new architects' lexicon. The old city dwellers may not have coined this word, but surely, those who built the Crescent in Bath, the old sections of London and Paris, et al, knew its intent and were in many instances able to satisfy the functional needs without sacrificing the aesthetics of the neighborhood or unduly assaulting their neighbor's eyes, ears or noses.

Urban design is more than just satisfying your client's needs—it also includes the needs of your neighbor!

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Architect and Builder Influence on Provision of Housing for Disabled

by Cecelia F. Pettis, MSW

INTRODUCTION

Legislation and resulting rehabilitative activity indicate that pressure for accessible housing is increasing (Ben-Sira, 1983; Blaxter, 1983; DeJong and Lifchez, 1983). This study investigates attitudes of architects and builders toward provision of accessible or adaptable housing suitable for persons with disabilities. It was hypothesized that architect and builder attitudes prevent a shift from nonaccessible design and construction to accessibility or adaptability and that perceptions of cost constitute an important factor in influencing their decisions. Some findings support the hypothesis while others indicate a need for improved communication between persons with disabilities and architects and builders (Pettis, Hubert, Lambe, 1984).

METHODOLOGY

A survey questionnaire adapted from a similar study by G. Schilling, E. Combs and L. Schwab was reviewed by representatives of architects, builders and persons with disabilities. It was sent to a total of 300 architects and builders who were randomly selected. Sampling was drawn from the Virginia Society AIA's geographically arranged listing. A similar roster for professional builders was unavailable to researchers. Therefore, telephone listings based on geographic regions of Virginia were used. The sample covered the four major geographic regions: Northern, Southwestern, Central and Tidewater. Included with the questionnaire were a letter explaining the project and definitions of terms related to the proper interpretation of certain questions.

RESULTS

There was a 39% return rate with the majority of all respondents holding the opinion that they have the know-how to design and/or construct housing suitable for persons with disabilities. (Refer to Table 1 for a statistical comparison of

responses.) There is also agreement that there is not enough adequate housing to meet the needs of persons with disabilities and that non-institutional and hospital environments constitute the best living arrangements for this segment of this population. Neither architects nor builders would commit to actually knowing what the preferred living arrangements of persons with disabilities might be—whether single-family, multi-family or condominiums.

Both architects and builders expressed that they have the knowledge to properly design and construct dwellings suitable for persons with disabilities. Architects perceive themselves as being more competent in this area than do builders. Offsetting this perception was an expression of willingness on the part of both professional groups to respond to the needs of persons with disabilities and to gain the knowledge necessary to respond appropriately to the needs of persons with disabilities. Builders tend to rely heavily on architects to design the features necessary to respond to special building code requirements and to the prospective users of the designed environments. They also agree that a small percentage of multi-family housing should be accessible and easily adaptable for use by persons with disabilities.

Statistically significant is the difference in the way architects and builders perceive any inconvenience factor related to barrier-free design in housing. Architects do not perceive that accessible housing poses any inconvenience to nondisabled persons but may enhance convenience for all persons utilizing the built environment. Builders, to the contrary, perceive accessible dwellings as an inconvenience to nondisabled persons.

Regarding cost considerations, there is disagreement between architects and builders responding to the survey. Architects do not consider accessibility or adaptability as too costly. Their primary concern, as drawn from comments, is that the planned environments be as serviceable as possible for those persons intending or intended to utilize the planned environment. Builders less certain of the costs of implementation of either accessibility or adaptability. The statistical significance of this difference between groups suggests that there is a serious lack of knowledge, on the part of

builders, of the state of the art in this specific area.

Additional comments received by the researchers included indications of intent on the part of both architects and builders to meet the special needs of persons with disabilities as they relate to housing and the planned environment. Numerous comments received expressed a strong desire for reduction in government regulation. Strong support for favoring greater flexibility in design and construction while meeting the needs of persons with disabilities was expressed. Overall, the concept of adaptability is indicated as being favored by architects. An important contributing factor to the desirability of adaptability is standardization of construction throughout a structure thus allowing for simplified methods and equal access to all users regardless of physical condition. (Housing and Building Codes Bureau, New York, 1983; Kerpin, S 1983; ANSI, 1981.) It is interesting that architects tend to view responsibility for provision of suitable housing as a partnership with builders, consumers and, to a lesser degree, government. As a group, they seem to embrace the notion of holding a leadership role. To the contrary, builders perceive responsibility to be almost totally that of the consumer. Cost is a factor that is contingent upon perception of role. Builders who perceive that they have a responsibility to supply suitable housing for persons with disabilities are less likely to consider such housing too costly. On the other hand, builders who perceive accessibility as too costly are more likely not to see themselves or architects as holding a responsible role.

CONCLUSION

There is no panacea for the complex concerns related to provision of suitable housing for persons with disabilities. Recognizing the philosophical and knowledge base of those in the building industry is a starting point for rectifying identified problems in provision of suitable housing.

The hypothesis that architect and builder attitudes are an important factor in prevention of a shift from nonaccessible to accessible built environments was not upheld. It appears, however, that builders are more resistant to such a shift than are architects. Cost as a factor influencing the shift is upheld by our research; yet we found that cost, as a factor, is influenced by perception of role.

ABOUT THE AUTHOR—Cecelia F. Pettis holds a Master of Social Work from Virginia Commonwealth University with a specialization in Mental Health and Mental Retardation. Ms. Pettis is a freelance broadcast reporter for American Council of the Blind Radio Network and is a member of the National Association of Social Workers. She is an active advocate for persons with disabilities.

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Table 1
Survey Results

	Prof.	Agree	Disagree	Don't Know
1. There is not adequate housing for persons with disabilities.	A B	39 18	11 5	27 13
2. It would be best for persons with disabilities to move into housing away from institutions, nursing homes and hospital settings and gain more independence.	A B	60 27	8 4	10 4
3. Persons with disabilities prefer to live in single-family homes rather than apartments.	A B	10 4	9 4	59 26
* 4. A dwelling designed to accommodate the person with disabilities would be a disadvantage to other persons who do not have a disability.	A B	30 50	67 38	3 12
* 5. Each person with a disability or their family has the responsibility to change or build a home to accommodate their special need.	A B	42 19	26 12	8 3
* 6. Government should take the responsibility for seeing that housing for persons with disabilities is available.	A B	26 12	40 20	8 4
7. Builders should take the responsibility for constructing housing that is usable by persons with disabilities.	A B	30 15	39 19	6 3
* 8. Architects should take the responsibility for design of housing that is usable by persons with disabilities.	A B	45 22	23 11	7 3
9. I would be willing to work with a family or person in building (designing) a home suitable for habitation by a person with (a) disability(ies).	A B	71 33	4 2	3 1
*10. I would be willing to build (design) "spec" housing suitable for use by a person with disabilities.	A B	58 27	13 6	6 3
*11. I have the knowledge necessary to build (design) housing suitable for use and/or habitation by persons with disabilities.	A B	69 30	5 2	6 2
12. I would build (design) more housing suitable for use by persons with disabilities if there were incentives provided by government.	A B	35 16	25 11	17 8
*13. The adaptability concept in building is more acceptable to me than the current accessibility standards.	A B	61 35	14 27	25 38
14. If adaptability were made a standard for buildings, the person with disabilities should be responsible for supplying and having installed the special adaptations necessary to make a dwelling useful to him/her.	A B	65 85	15 6	20 9
15. All housing should be built to provide access for persons with disabilities.	A B	12 11	80 77	9 11
*16. A small percentage of all multi-family housing should be accessible and easily adaptable for persons with disabilities.	A B	88 50	9 40	3 11
17. All housing should be accessible and adaptable for use by persons with disabilities.	A B	11 21	81 77	8 3
18. It costs too much to make dwellings accessible.	A B	30 47	51 29	19 24
*19. It would cost too much to make dwellings adaptable.	A B	16 36	63 36	21 27
20. I am willing to gain the knowledge necessary to provide more serviceable housing for persons with disabilities.	A B	92 84	1 0	7 16

Percentile of responses per category
*Denotes significance of χ^2 at $p < .05$.

A = Architect
B = Builder

THE IMPORTANCE OF BEING ERNEST



GETTING PUBLISHED

Some architects think that the only way to get their projects published in a magazine is to be the publisher's nephew. *NOT TRUE!* Most magazine editors eagerly seek publishable work from architects.

The key word is "Publishable." What an editor needs is not necessarily an award-winning project, but one accompanied by good quality professional photographs that will reproduce well when printed; a well written outline of the project and how the architect solved any unusual problems; and camera-ready art work, depicting floor plans and building sections that illustrate a design concept and interesting details.

Like many architects, the magazine publisher is faced with numerous deadlines and limited time. When an architect submits project material that makes the editor's job easier, it is very likely that it will be selected for publication.

Having one's work appear in a magazine has many benefits to the architect. Foremost is the designer's personal satisfaction from sharing a successful architectural project with his or her peers. This sense of pride can be shared with the building's owner and others associated with the development and design of the project.

In addition, a printed story in a recognized publication serves as a third-party endorsement of an architect's work. This can be useful in promoting a firm's credentials, as well as creating a record of the current level of design excellence in Virginia.

The *Virginia Record* magazine has had a long and illustrious association with architects in Virginia, originally publishing as an "Architect's Section" in several issues each year. In 1981, the Virginia Society/AIA and the Virginia Publishers Wing, Inc. (publisher of the *Virginia Record*) entered into a joint publication agreement, thus converting the magazine to the "Journal of the Virginia Society of the American Institute of Architects."

Under this arrangement, the Society is allotted a specific number of editorial pages for each publishable architectural project. The Society, which has control over editorial material and selection of projects, must furnish the publisher with at least 12 but not more than 24 publishable architectural projects per issue.

As a result of this agreement, up to 120 recently completed or under construction projects can be published annually. This number provides an excellent opportunity for any architect to have his or her work appear in the *Virginia Record*.

The Society's publications committee is constantly on the lookout for suitable projects. Periodically, through the year, a request for submittals is solicited through the Society's newsletter. In addition, a complete listing of the magazine's publication dates and issue themes is included in the annual *Virginia Architects Handbook*.

Upon request of an architect desiring to be published, Anita R. Brennan, *Virginia Record's* Asso-

ciate Editor, will send out an "Application for Publication," tips on completing the application and guidelines for project submittals (photographs, camera ready artwork and project narratives).

The completed project submittals are received by the publisher prior to review and selection by the Society's publication committee. In determining which projects will be published, the committee uses the following criteria:

- The quality of the photography and how well it will print.
- Is the narrative informative and without exaggeration?
- Do the projects represent both large and small firms; large budget projects as well as modest ones?
- Do the projects represent all regions of the state?

Of course, the committee can only work with the material it receives. In order to improve the quality and representation of published work, the committee must have the greatest number of submittals from which to make its selection.

Therefore, the *Virginia Record's* continued success lies in the hands of each individual Virginia Society member. Participation by the greatest number of architects will benefit the magazine and the profession, as well as those firms selected for publication.

Paul Barkley, AIA
Immediate Past President
VSAIA

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VIRGINIA SOCIETY AIA NEWS

SAN FRANCISCO CONVENTION TO PROBE 'VALUE ARCHITECTURE'

1985 AIA National Convention, June 9-12

Value Architecture . . . It's the theme of the AIA national convention to be held June 9-12 in San Francisco. More top-level seminars to broaden your capabilities and heighten your profitability. More consultations with the experts in microcomputerized practice. More opportunities to share ideas with the best, the brightest, the award winners—one-on-one. The largest exhibit of new products, ever.

There will be plenty of excitement when architecture's foremost clients, critics and architects take sides in the 1985 AIA National Convention's Theme Programs, starting on Sunday, June 9, with guest speaker Tom Wolfe, whose controversial *From Bauhaus to Our House* turned architectural criticism into a national pastime—and a contact sport. Commentators Linda Ellerbee (NBC News), Allan Temko (*San Francisco Chronicle*), and Wolf Von Eckardt, Hon. AIA (*Time*), clients like Andrew M. Lewis (design-conscious chairman of Best Products Company) and such eminent architectural names as Burgee, Goody, Graves, Izenour, Hartray, Johansen, Moore, Stern, Thompson, Tigerman and more will all be on hand.

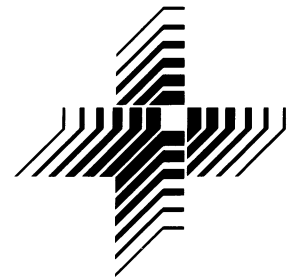
The biggest and best professional development program ever assembled for an AIA convention will offer 80 hours of learning opportunities, scheduled from dawn to dusk, starting a full day before the convention officially opens and ending a full day after all other events are over. A

faculty drawn from the very best the profession has to offer, in all fields, nationwide. A list of topics that leaves few of your problem areas unexplored—microCAD/D, marketing, management, productivity, interiors, minority business opportunities, group decision making, development dynamics, career planning for women, developing long-term clients, new profit centers in practice. And learning sessions in both full-scale seminar and small-group consultation formats, all designed to help you provide more value to your clients and realize more value—in the shape of greater efficiency and greater profitability—for yourself.

The biggest convention exhibit in AIA history will present attendees with a demanding challenge: Find a way to decide which products, services and technologies you want to learn more about, with more than 500 exhibits open to tell you everything you need to know. Computer Technology . . . Software . . . CAD/D . . . Contract Furniture . . . Hardware . . . Interiors . . . Exteriors . . . Lighting . . . Energy Systems . . . Practice Systems . . . plus a convention schedule that lets conventioners see it all—at the 1985 AIA Exhibit of New Products and Technology.

In addition, the San Francisco Chapter/AIA will treat convention goers to an unparalleled selection of tours, trips and special events—excursions to verdant Muir Woods and the sunlit vineyards of the Napa Valley . . . Architectural

ValueArchitectureAIA85



tours of Frank Lloyd Wright's Marin County Civic Center, Sausalito's funky bathhouses, San Francisco's banking temples, even the rockpile they call Alcatraz . . . Walking tours of posh Pacific Heights and exotic North Beach . . . A moonlit cruise on San Francisco Bay . . . A select sampling of cosmopolitan cuisines . . . Plus, after the convention, a choice of tours that jump off from San Francisco for Carmel, Yosemite, Hawaii and Hong Kong.

Richard L. Ford, Jr., president of the Virginia Society/AIA will lead one of the largest contingencies of Virginia architects to attend a national convention. To help facilitate Society members' full participation and enjoyment of convention activities, plans have been made to house Virginia convention attendees in the same hotel.

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COMPETITIONS AND AWARDS

Walsh-Ashe Wins School Design Award

Walsh-Ashe-Associates, Inc., architects, planners and interior designers, was recognized by the American Association of School Administrators and the American Institute of Architects for its design of Surry Elementary School in Dendron, Virginia. The two groups invited Walsh Ashe to display the design for this project in the 1985 Exhibition of School Architecture in Dallas, Texas, March 8-11.

The school was built with the lowest cost per pupil of any elementary school under contract in the 1981-82 school year in Virginia. Walsh-Ashe is noted for its cost effectiveness and innovative approach to creating a desirable learning environment. Interior Design Group was a consultant for the project on graphics, coordination of interior furnishings and selection of colors.

Structural engineer for the project is Abiouness Cross & Bradshaw, Inc., and mechanical and electrical engineer is Chandler & Gibson, Inc.

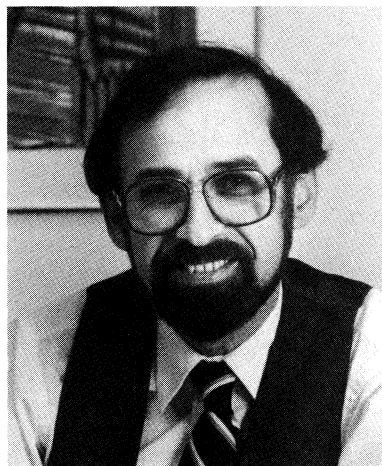


Virginia Beach Architect Named to *Who's Who in the World*

The Seventh Edition of *Who's Who In The World* came out in December and a Virginia Beach resident, architect Laszlo Aranyi, AIA, was included in those whose biographies fill its illustrious pages.

Already somewhat of a local celebrity, due to the numerous awards he and his staff at The Design Collaborative have won in architecture and energy innovation, Mr. Aranyi said he felt honored to have been nominated and chosen for inclusion.

Mr. Aranyi has practiced architecture in Virginia Beach for the last 20 years, during which time he has made many contributions to cultural and civic affairs. Two of his art works, a painting and a mural, were published recently in the Arts Guide of Tidewater 1984. His prize-winning mural, "Gateway To The Future," depicting the Norfolk skyline was painted on a building in downtown Norfolk. He is co-author of a book on nursing homes entitled *Design of Long-Term Care Facilities*, published in 1980. For his promotion of passive solar architecture, he was chosen "Energy Man Of The Year" by the National Energy Journal in 1983. His firm, The Design Collaborative, won both the Governor's



Laszlo Aranyi, AIA

Energy Award and a National DOE Award for Energy Innovation in 1984.

He serves on the Virginia Beach Arts & Humanities Commission and is past president of the Tidewater Artists Association.

Two From RWK Receive 'Keep Virginia Beautiful' Awards

Gene Roberts and Glenn Oder, both landscape architects at the Newport News firm of Rancorn, Wildman and Krause are recipients of three First Place Awards for Virginia's "Keep Virginia Beautiful" program.

Mr. Roberts, Director of the Site Planning and Landscape Architecture Department has been associated with RWK for more than six years. In February of this year Mr. Roberts was promoted to a junior partner in the firm.

Mr. Oder has been employed with RWK for two years and received his professional training at Virginia Polytechnic Institute and State University.

The winning categories are Commercial Landscaping for Suttle Motor Corporation, Institutional Landscaping for St. Joseph's Catholic Church, and Municipal Landscaping for the Bicentennial Memorial at Yorktown, Virginia for Nick and Mary Mathews. Mr. Oder also received the First Place Award in the Residential Landscaping category for the residence of Dr. William Parks.

The awards were presented by Virginia's First Lady, Mrs. Lynda Robb, in a ceremony on January 16, 1985 at the Richmond Marriott Hotel.

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NEW FIRMS

W. A. Brown & Associates

Walter A. Brown, AIA, has established the new architectural firm of W. A. Brown & Associates located at 667 South Washington Street in Alexandria, Virginia. The primary emphasis of the firm will be research and development office facilities. During the past three years, Mr. Brown has been responsible for more than 25 projects of this type comprising a total of more than 2,000,000 square feet of space.

Prior to the founding of his new firm, Mr. Brown was managing partner with Brown, Donald, LeMay & Page Architects. Previous to that he was a principal with Brown & Page Architects and LBC&W Associates of Virginia. He is a past president of the Northern Virginia Chapter, American Institute of Architects, and is currently a member of the Board of Directors of the

Virginia Society, American Institute of Architects.

Mr. Brown holds a Master of Architecture degree from Harvard University and a Bachelor of Architecture from the University of Illinois. He has been practicing architecture in the Washington area for over 20 years.

Hodzic, Brown & Novcic

James L. Brown, AIA, Arif H. Hodzic, AIA and Radan R. Novcic, AIA have announced the recent formation of the new architectural firm of Hodzic, Brown & Novcic, architects-planners-engineers.

The firm is located at 4300 Evergreen Lane, Suite 202, Annandale, Virginia.

PERSONNEL AND OFFICE ACTIVITIES

Five Hold Positions on National AIA Bodies

This year, five Virginia Society/AIA members hold prestigious positions on American Institute of Architect's National Committees and Task Forces. R. Randall Vosbeck, FAIA, a past president of the Institute, is Chairman of the 1985 International Relations Steering Committee.

William Thompson, AIA, of the Tidewater Virginia Chapter, is a member of both the Architects Liability Committee and the Quarterly Program Task Group of the Institute's Practice Commission.

Northern Virginia Chapter member and the Virginia Society's secretary, Marvin J. Cantor, AIA, is chairman of the Life Safety Task Unit of the Practice Commission.

Another Northern Virginia architect, Frederick K. Kuntz, AIA, is chairman of the Masterspec Review Committee.

Also, Ben H. Evans, FAIA, of the Virginia Polytechnic Institute and State University in Blacksburg, is serving on the Institute's Acoustical and Lighting Design Task Group.

Dorr Joins CEGG

John F. Dorr, Jr., has joined The CEGG Partnership architectural department. The CEGG Partnership is a multi-disciplined architectural/engineering firm located in Virginia Beach.

Mr. Dorr holds a Bachelor of Architecture from Virginia Polytechnic Institute and State University. He was previously employed by the architectural firm of Spigel, Herman, Chapman, Ltd.

Norfolk Firm Opens Regional Office

Washington Associates, architects and planners, has opened its first regional office in Richmond. According to Robert E. Washington, Chairman, the office has been opened, "to better meet with regulatory agencies, to better serve Richmond, Charlottesville, and Fredericksburg clients, and to better position the company as a statewide firm."

Washington Associates is 14 years old and has grown from seven employees in 1981 to 40 today. Washington served in the House of Delegates of Virginia for twelve years and retired in 1982 to build the firm in partnership with his brother, James R. Washington.

The new office is located in the Heritage Building, Suite 722, 1001 Main Street, Richmond.

Yates Joins Dewberry & Davis As Senior Planner

Philip G. Yates, AICP, has joined Dewberry & Davis as a Project Manager and Senior Planner in the architecture/engineering firm's Fairfax, Va., headquarters. Mr. Yates has over 20 years of planning experience in the Northern Virginia area and was formerly the Zoning Administrator and Assistant Director of Planning for Fairfax County. In his new capacity with Dewberry & Davis, he will manage planning projects conducted at the headquarters office.

As Zoning Administrator with Fairfax County, Mr. Yates administered the work program for inspection, enforcement, interpretation, and permit processing of zoning regulations. Prior to that time, he served as a Principal Planner

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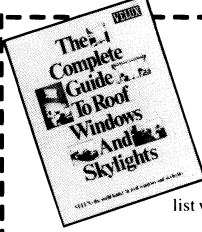
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with Fairfax County, having extensive responsibilities as the Executive Director of the county's Zoning Ordinance Study Committee, which wrote the current Fairfax County Zoning Ordinance. In earlier years with the county, he was involved in the development of a progressive public facilities planning program; historical preservation and erosion and sediment control ordinances; a five-year park acquisition program for the Park Authority; and the formulation of the county's comprehensive planning program.

For three years Mr. Yates was an Associate with Payne-Yates Associates, an urban planning consultant firm, where he prepared land development studies and planning programs in Albemarle and Fauquier Counties and in the cities of Fredericksburg and Warrenton, Va. He also assisted in the site development study which led to the successful rezoning of the site of the Springfield Mall regional shopping center.

A graduate of the University of Virginia, Mr. Yates holds a Bachelor of City Planning degree. He is a member of the American Planning Association; the American Institute of Certified Planners; the Virginia Citizens' Planning Association; and the Virginia Building Officials Association.

Dewberry & Davis has nearly 750 professional and support personnel specializing in the architecture, engineering, planning, and surveying fields. The firm maintains ten offices throughout Virginia, Maryland, North Carolina, and Tennessee.

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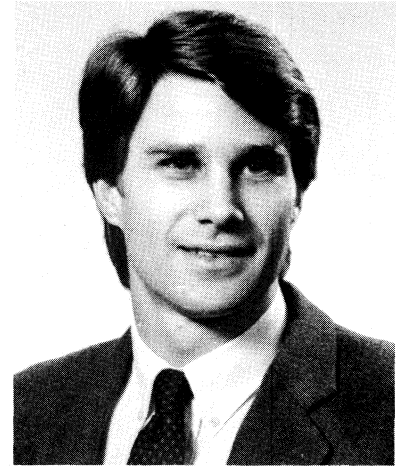
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James M. Pociluyko Joins Rancorn, Wildman and Krause

James M. Pociluyko has joined the architectural firm of Rancorn, Wildman and Krause in Newport News. He recently completed the NCARB examination and is now a registered architect. In September 1984, Mr. Pociluyko was designated an Associate of the firm.

After graduating in 1980 from Virginia Polytechnic Institute and State University with a Bachelor of Architecture Degree, Mr. Pociluyko worked for the Tennessee Valley Authority's architectural design branch in Knoxville, where he had design responsibility over a variety of projects ranging in size and scope. While at TVA, Mr. Pociluyko received special training in the fields of energy conservation and passive solar design, which he incorporated into his design work.

Currently, Mr. Pociluyko is involved in developing building programs and conceptual schematic designs on projects of many scales. Some of the more recent projects that he has been involved with include: Merrill Lynch Office Building, Hampton; Master Plan for the YMCA, Newport News; and Fairfield Communities Interval Ownership Condominiums, Williamsburg.



James M. Pociluyko

Prince Joins HTB, Inc. as Senior Architect/Project Manager

Theodore (Ted) C. Prince has joined the Washington office of HTB, Inc., a national architecture/engineering/planning firm, as Senior Architect and Project Manager. James N. Freehof, Senior Vice President and Director of the Washington office, announced the appointment in February.

Prince comes to HTB after directing his own architectural practice in Gatlinburg, Tennessee since 1981. Prior to that time, he served as partner and owner of Harmony Designs of Sevierville, Tennessee, and worked with design firms in the D.C. area, Miami, San Francisco and Honolulu. His background includes over 20 years of experience with a variety of projects, such as commercial developments, renovations, entertainment facilities and residences.

Prince, who attended the University of Tennessee, is both a licensed architect and a licensed general contractor. He holds a professional registration with the National Council of Architectural Registration Boards (NCARB). He served on the Gatlinburg Environmental Design Review Board in Tennessee for seven years.

HTB, Inc. is a 220-person architecture/engineering/planning firm with offices in Washington, D.C.; Oklahoma City, OK; Tulsa, OK; and San Jose, CA. Current projects in the D.C. area include the National Press Building renovation, 999 E. Street, NW (the former Pepco headquarters), and several renovation/expansion programs for government installations.



Ronald C. Williams

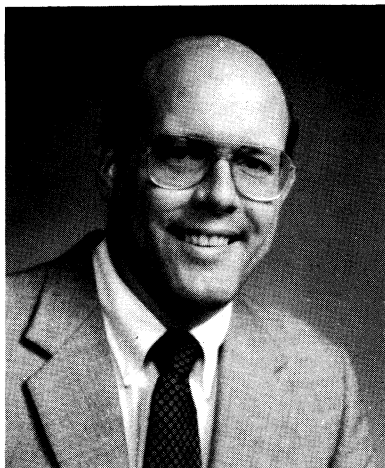
Williams Joins Walsh-Ashe

Ronald C. Williams has joined Walsh-Ashe Associates architects, planners and interior designers as production manager, and is in charge of cost estimating. The 15-year old firm is headquartered in Virginia Beach.

Williams formerly headed a firm that specializes in construction management consulting. He has worked for architects and construction firms in southeastern Virginia for the last 20 years.



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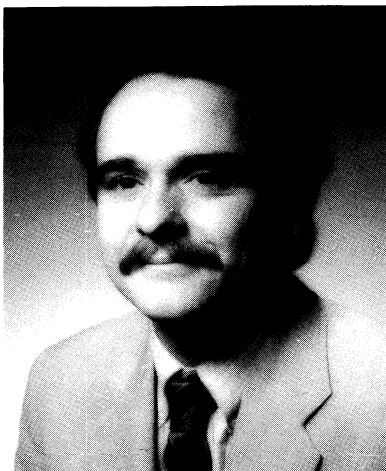


John A. Mason

HSMM Adds New Department Head

Hayes, Seay, Mattern and Mattern, Architects-Engineers-Planners, announce the addition of John A. Mason, as Civil Engineering Department Head at their Virginia Beach Office.

A resident of Norfolk for 33 years, Mr. Mason has played a key role as Director of civil design on several projects in the Tidewater area. Plans bearing his seal include reconstruction of Waterside Drive and site work for the Hampton Roads General Mail Facility. Mason's background, of extensive experience in highway and utilities design and soil mechanics, will strengthen the firm's civil engineering capabilities.



Wayne Mortimer, AIA

Washington Associates Hires Staff Architect

Wayne Mortimer, AIA, has been hired by Washington Associates, a Norfolk based architectural firm. Mortimer, a registered architect in Virginia, was formerly Associate Director of Architectural Services at Old Dominion University and has been hired as a staff architect. He has been assigned as Project Manager for the design of new and expanded Computer Facilities Building R-47 at the Sewells Point Naval Complex, Norfolk.

Washington Associates employs 40 people and has a second office in Richmond.

Lynchburg Firm Adds Partner, Changes Name

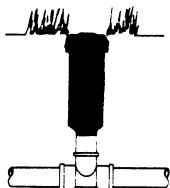
The architectural firm of Harrison & Hardison has announced the addition of Robert A. Staton, AIA as a new partner as of November 1, 1984. The firm is now known as Harrison-Staton-Hardison, Architects. The firm also added J. Wayne Whitworth and Stephen M. Stinnette in 1984.

Gordon F. Harrison, AIA and Wayne M. Hardison, AIA founded their practice in 1979 after being associated with several local architectural firms.

A native of Lynchburg, Mr. Staton has over 20 years experience with architectural firms in design, construction and managerial positions. He is active in the American Institute of Architects and currently is Secretary/Treasurer of the Blue Ridge Chapter, AIA.

Mr. Whitworth, a designer/draftsman, was previously employed by an area architectural firm. He is an Associate Member of the American Institute of Architects.

Mr. Stinnette, a 1984 graduate of VPI and SU, joins the firm as an intern architect. He also is an Associate Member of the American Institute of Architects.



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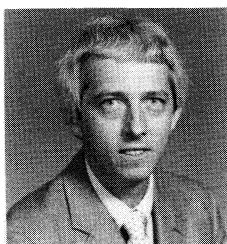
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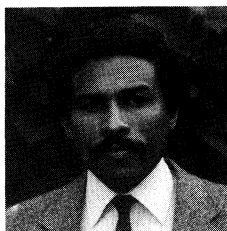
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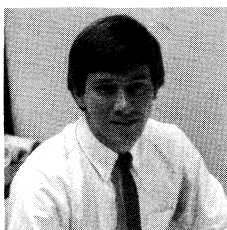
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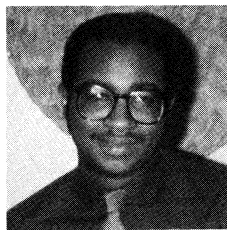
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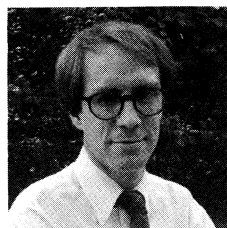
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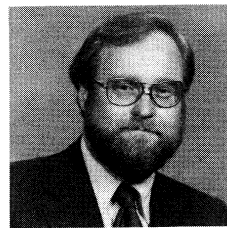
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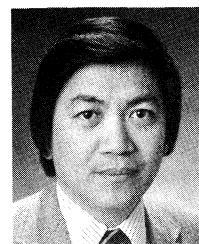
RURIK F. EKSTROM, AIA
James River Chapter
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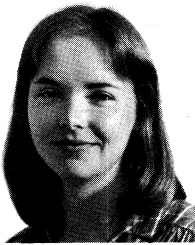
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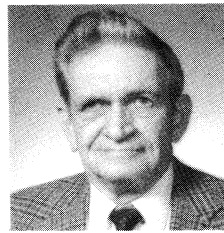


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Tidewater Virginia Chapter
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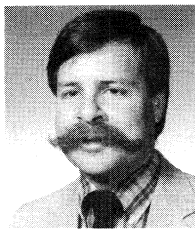
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Tidewater Virginia Chapter
With Forrest Coile Associates
Newport News

ROBERT ELLIOTT GREEN, Associate
Tidewater Virginia Chapter
With Brundage-Kroskin & Associates, Inc.
Norfolk



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Tidewater Virginia Chapter
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Gibson, Norfolk

DAVID T. HENDERSON, AIA
Tidewater Virginia Chapter
With Clark Nexsen Owen Barbieri &
Gibson, Norfolk



DAVID W. McWHIRT, Associate
James River Chapter
With Moseley-Hening Associates, Inc.
Richmond

DANIEL W. HORNER, AIA
Blue Ridge Chapter
With Dickson Architects & Associates
Roanoke



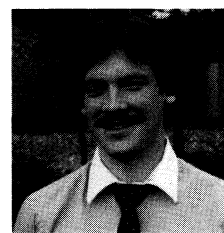
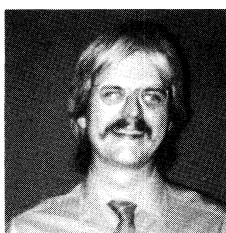
ZAN F. MICHNIEWICZ, Associate
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With VVKR Incorporated
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RONALD M. HOTINGER, AIA
James River Chapter
With McClintock & Associates
Harrisonburg



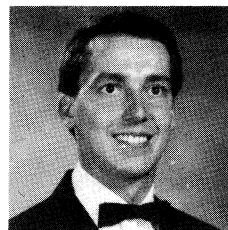
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ZANE SCOTT HURST, AIA
Blue Ridge Chapter
With The Architects Design Group
Roanoke



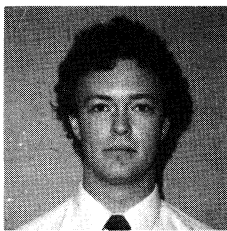
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SCOTT ROBERTS, Associate
Tidewater Virginia Chapter
With J. W. McElroy & Associates
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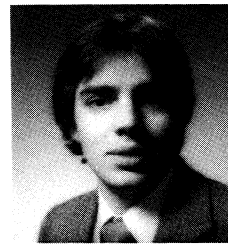
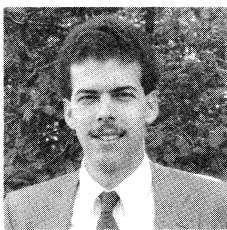
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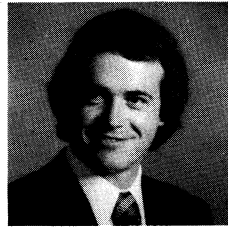
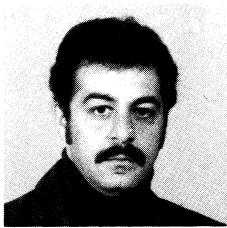
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Graduate of Auburn University
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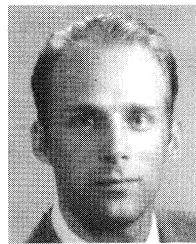
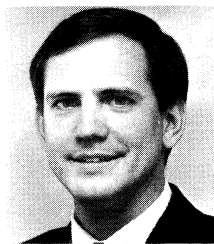
JOSEPH H. TROST, Associate
Tidewater Virginia Chapter
Graduate of VPI & SU
With Washington Associates
Norfolk

MOJNIR E. SHAHEEN, AIA
Tidewater Virginia Chapter
With Graphic Shirts
Hampton



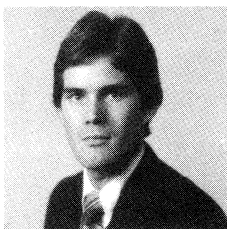
LEWIS W. TURNER, JR., AIA
Blue Ridge Chapter
With Conrad Knight Architect, P.C.
Martinsville

CHARLES ANDREW SIMKO, AIA
Tidewater Virginia Chapter
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Montebello

Holle Lin & Shogren Architects, P.C.

Location: Fairfax

Submitted by Robert Bruce Shogren, AIA • Design Team, Henry C. Holle, AIA, Steve C. Lin, AIA and Smith & Williams Group/Wayne Williams, FAIA • Land Planner & Consultant Architect, Wayne R. Williams, FAIA/Smith & Williams Group • Structural Engineer, Dragan-Areng Associates • Mechanical/Plumb-

ing/Electrical Engineer, Shefferman & Bigelson Company • Geotechnical Engineer, ECB Engineering • Landscaping, Avon Landscaping Corp. • Civil Engineer, Dewberry & Davis • Interiors, Sherman Associates & Lawson Design Corporation • Developer, International Developers, Inc./Giuseppe Cecchi, President, Richard K. Grizzard, Vice President-in-charge • General Contractor, Majestic Builders Corp. • Photography, Harlan Hambricht.

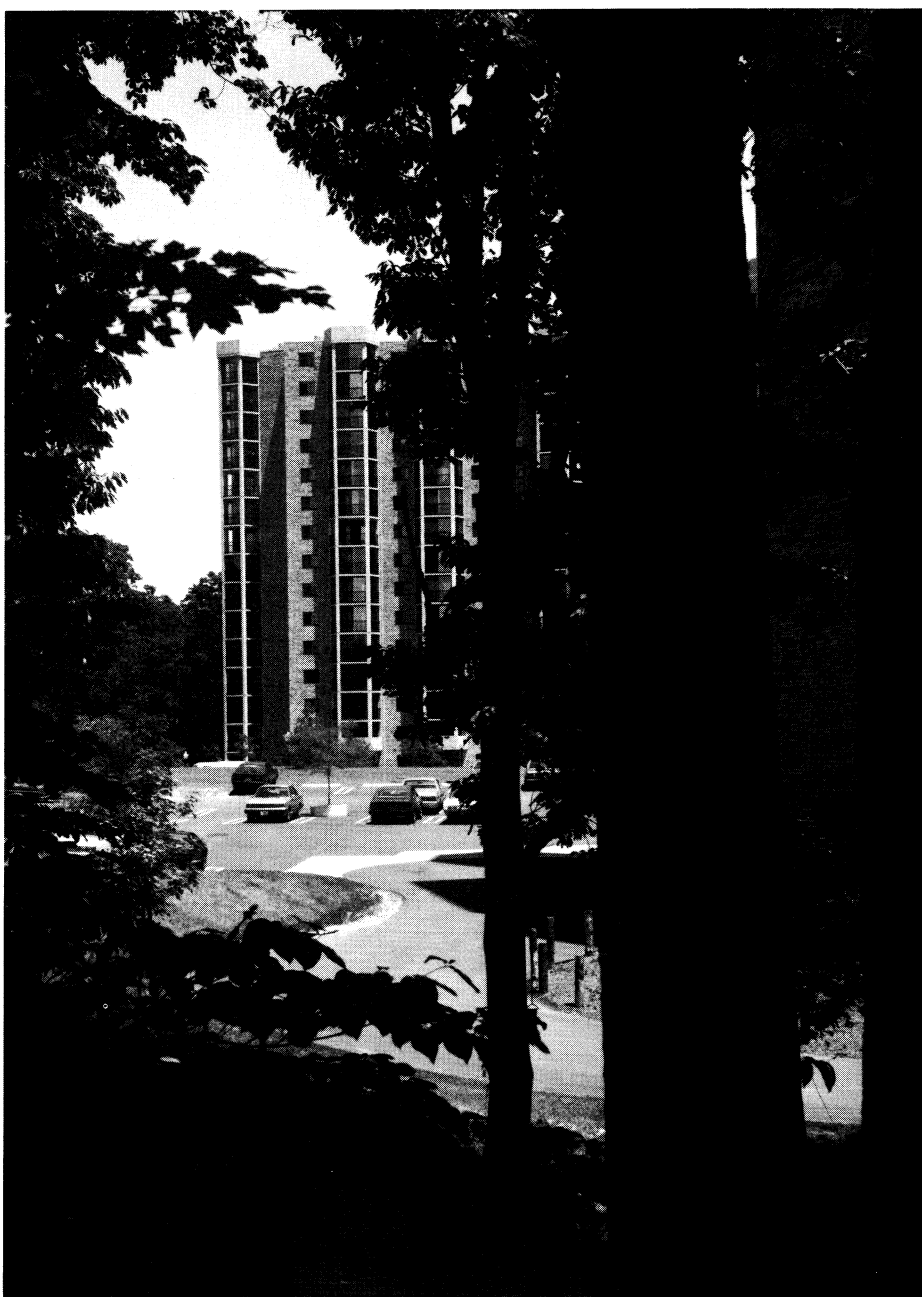
The program required a four phase development of the 35-acre site to provide a total of 1,000 residential condominium units in high-rise structures. The natural attributes of the site were to be retained and enhanced. Building 1 comprised of 15 residential floors on three levels of parking was the prototype of four similar structures.

The promontory-like extension of a large plateau forms the buildable area of the Montebello site. The slopes are steep and heavily wooded and the soil consists of marine clay. The site plan reflects the constraints of the above. To avoid cutting into the slopes, the buildings were bent to conform to the grades. Two 45° angles in the structure accommodate the majority of conditions.

The entrance to the site is at the bottom of the hill and a long gently curving road leads through the woods to the top. Care was taken to take advantage of existing grades and to save the magnificent trees wherever possible. Half way up the drive, hidden in the trees, is the sales office—a one-story structure with brick walls and a shake roof. Continuing up the road, one reaches the pool and tennis complex. This is the center of the project. The 21,000 s.f. community center is located in a ravine under the tennis courts and is almost totally hidden from view. This is in spite of the fact that its features include a bowling alley and a very large indoor pool complex with locker and exercise rooms, sauna and other facilities.

The building's facades of variegated beige brick are reminiscent of stone, both in color and texture. The windows are small and the regularity of the walls is interrupted only by projecting brick and balcony towers. This recalls subtly the picture of a castle with strong stone walls and turrets that the client envisioned when first walking the site.

The verticality of the balconies remains strong whether enclosed or open and is further reinforced by concrete caps that extend above the roof line. Because of the high elevation, the project is often viewed from a great distance and the projections above the roof take on additional importance. The balconies are partially recessed and when not enclosed add further





emphasis to the building's solidity and verticality through their strong brick returns.

As in previous projects, parking is handled with great care. The black-top starts typically at the building, but is interrupted often by carefully positioned islands of green that afford maximum impact to the viewer in the building. Concrete paving alternating with black-top provides further interest. The outer ring of parking, which is the lower side of the buildings, totally disappears from the apartment's view.

The site-dictated shape of the buildings resulted in unexpected benefits. One is the reduction of bulk and more often than not the buildings appear as towers showing only one-third of their length. The off corners called for special apartment designs which quickly became runaway best sellers. All apartments have balconies with room size dimension. An option to enclose the balconies was offered for the first time with Building 1 and received overwhelming approval from the public. Since the typical windows are small, sliding glass doors to the balconies are the areas of the largest heat loss or gain. Through the addition of another double glazed enclosure at the outside, a total of four glass panels with their respective air spaces make a drastic difference in the energy efficiency of each apartment.

The siting, the apartments and the amenities together comprise a living environment that was well accepted by the public. The effect of a remote, green residential enclave, touching on one side a busy highway and on the other a subway station, proved to be highly desirable, as borne out by the sale. The construction budget of \$13.6 million for Building 1 was met. Buildings 1, 2 and 3, the community center, sales building, and most of the amenities have been completed. Building 4 is under construction.

Majestic Builders Corp. of Chevy Chase, Maryland was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

Marvaco, Inc., Fairmont Heights, MD, excavating; Schnabel Foundation Co., Bethesda, MD, sheeting & shoring; Tri County Asphalt Co., Chantilly, paving; Avon Landscape Corp., Alex-



andria, landscaping; Miller & Long Co., Inc., Bethesda, MD, concrete; American Masonry Co., Inc., Kensington, MD, masonry; Southern Iron Works, Inc., Springfield and American Iron Works, Inc., Bladensburg, MD, miscellaneous iron; Mid-Atlantic Erectors, Inc., Columbia, MD, balcony railings; Residential Carpentry Corp., West Bethesda, MD, carpentry; Annandale Millwork Corp., Haymarket, interior millwork; The Martin Co., Washington, DC, waterproofing; S. DiGregorio & Son, Silver Spring, MD, GWB; Max Greenwald & Sons, Inc., Tuxedo, MD, roofing; Wilcox Caulking Corp., Lorton, sealants & caulking; and Swingin' Door, Inc., Rockville, MD, doors & frames.

Also, Metropolitan Industries, Inc., Edmonston, MD, miscellaneous doors & mirrors; Custom Walls & Windows, Inc., Kensington, MD, windows & sliding glass doors; Contract Hardware, Rockville, MD, finish hardware; Diener's Lino-leum & Tile Co., Inc., Brentwood, MD, carpeting; Advantage Contractors, Ltd., Laurel, MD, paint; Big Stuff, Inc., Forestville, MD, trash chute; Glen Industrial Communications, Washington, DC, security systems; Heritage Industries, Dudley,

GA, kitchen cabinets; Franklin Marble & Tile, Capitol Heights, MD, ceramic tile; Westinghouse Elevator Co., Upper Marlboro, MD, elevators; A. S. Johnson Co., Inc., Clinton, MD, mechanical; Laurel Concrete Products, Inc., Laurel, MD, concrete specialties; Dynalectric Co., Vienna, electrical; Wm. B. Hopke Co., Inc., Alexandria, site work; Valley Lighting, Towson, MD, site lighting; and Dominion Electric, GE light fixtures, General Electric appliances.

Manufacturers: Brick/Masonry products, Merry Companies; Insulation, Dow, Owens-Corning; Paints/Stains, Glidden; Roofing, Gates; Windows, Howard Industries. Doors: Entry Doors, Benchmark; Sliding Doors, Howard Industries; Interior Doors, Annandale Millwork. HVAC Equipment, Carrier Corp. Plumbing Fixtures: Kitchens, Unarco; Bathrooms, Eljer, Gebert, Owens-Corning and Gesmar; Plumbing Fittings, Delta. Kitchen Appliances, General Electric; Washer/Dryers, Frigidaire; Kitchen Cabinets, Heritage Industries; Counter Tops, Richmond Lumber Co., Inc. Finished Flooring: Vinyl, Armstrong; Carpeting, Lees. Hardware, Schlage; and Westinghouse Elevators with Parkline cab.



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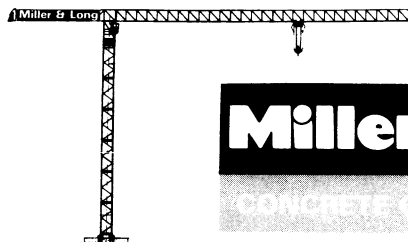
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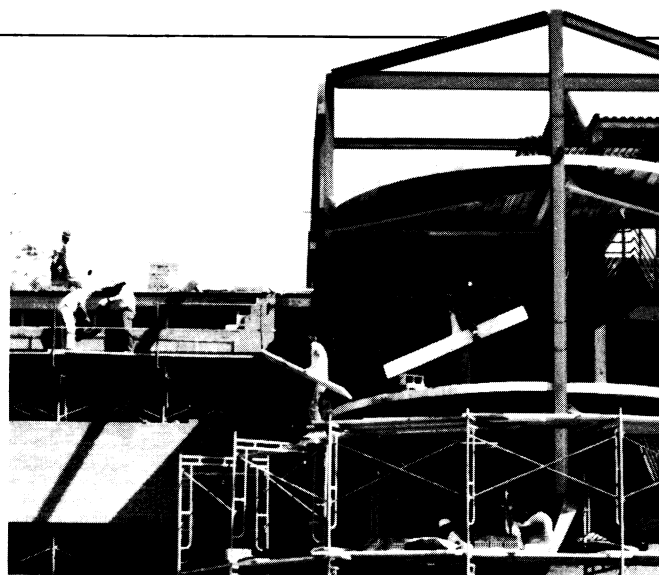


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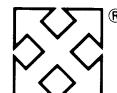
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Office Building for the Kroger Company

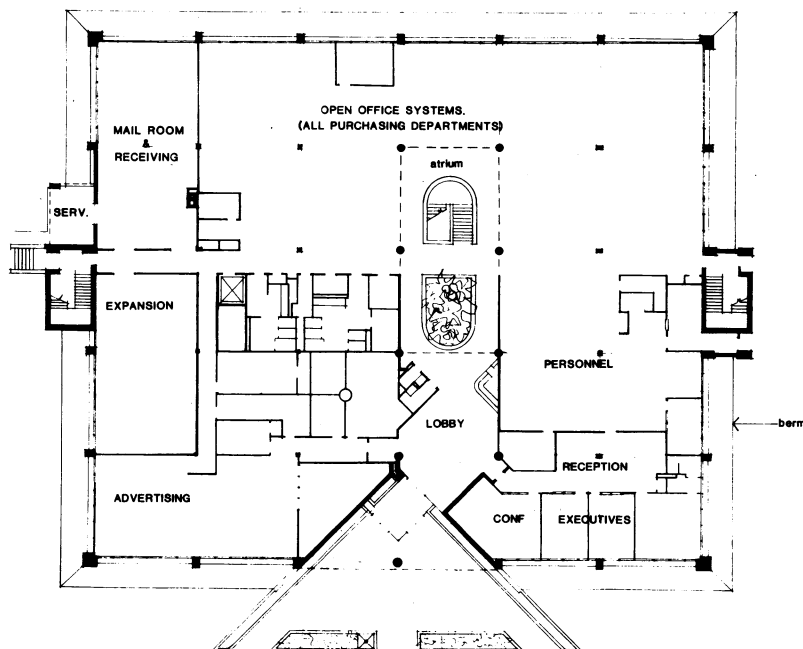
Smithey & Boynton—Architect

Location: Roanoke

**Mechanical/Electrical/Civil Engineer, Smith-
ey & Boynton • Interior Designer, van Blar-
icom Design Associates • General Contrac-
tor, C. L. Lewis & Co., Inc. • Photography,
Smithey & Boynton.**

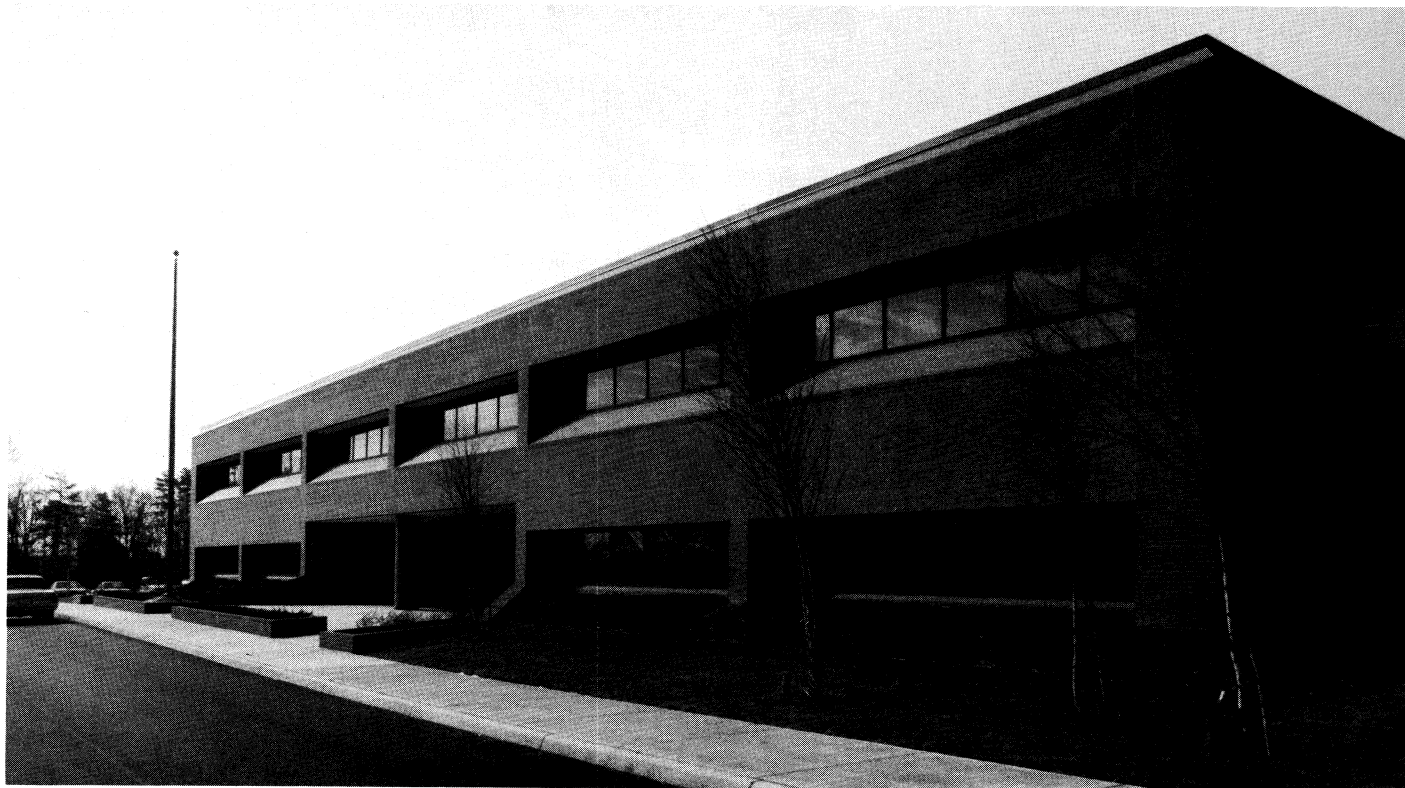
Located in close proximity to Woodrum Field and Interstate 581, this new office building for the Mid-Atlantic Marketing area of Kroger Food Stores takes full advantage of convenient transportation accesses by air and highway. Roanoke is one of 13 Kroger autonomous marketing areas, serving 112 retail stores in Virginia, Tennessee, West Virginia, North Carolina, Kentucky and Ohio. Corporate Headquarters are in Cincinnati, Ohio. Each autonomous marketing area does its own merchandise procurement. A computer system was provided to connect with Corporate Headquarters and with all 112 stores. The new building was designed to house 260 administrative and facility engineering personnel, many of whom were transferred from the nearby Kroger Distribution Center in Salem. The new site consists of 10.25 acres and provides generous parking space and allowance for possible future building expansion.

The building is a two-story, steel-framed brick structure featuring horizontal bands of windows of bronze insulating glazing, deeply recessed for maximum sun screening. Structural bays are evident by emphasis on brick piers



FIRST FLOOR

Scale: 0 10 20 30





interrupting the strip windows at regular intervals. The strong brick character of the building is further accented by the use of brick pavers for the floor and walls of the entrance lobby and reception area. Planting boxes in these areas are constructed of the same material.

Featured near the center of the building is a large two-story covered atrium of dark bronze glass which draws one's attention, upon entering the lobby, to the main circulation pattern connecting both levels. A free-standing stair serves as this connecting link; its terminus at the second floor is a pedestrian bridge which forms an integral part of the second floor circulation system.

An important element of the building is the emphasis on open landscape planning. Large open areas on the first floor house personnel

and all purchasing departments, consisting of meats, grocery, produce and deli-bakery components. Executive offices, advertising and mail room areas are also on this level. Open areas on the second floor contain accounting, facility engineering and real estate departments. In addition, a large meeting room, keypunch and computer rooms and a dining room are on the second floor.

The Kroger Office Building contains 65,000 square feet and was occupied in February 1984.

C. L. Lewis & Co., Inc. of Lynchburg was general contractor and handled dampproofing.

SUBCONTRACTORS & SUPPLIERS

Thomas Brothers, Inc., Salem, site work; Adams Construction Co., Roanoke, paving & walks; Alpine Nursery, Inc., Rocky Mount, landscaping;

Concrete Ready Mixed Corp., Roanoke, concrete; Bat Masonry Co., Lynchburg, masonry; Structural Steel Co., Roanoke, structural steel, joists & metal deck; Dean's Steel Erectors, Harrisonburg, steel erection; and Taylor Brothers, Inc., Lynchburg, wood/plastics.

Also, I. N. McNeil Roofing Co., Roanoke, roofing; A.B.G. Caulking, Morristown, TN, caulking; Engineering Sales Corp., Blountville, TN, hollow metal frames & doors; Binswanger Glass Co., Greensboro, NC, aluminum doors & windows; Skyline Paint & Hardware Co., Roanoke, finish hardware; HIVA of Roanoke, Inc., Roanoke, resilient floors & acoustical treatment; L. A. Liskey, Inc., Baltimore, MD, access flooring; Super Sky Products, Mequon, WI, atrium roof; Progressive Products Corp., Roanoke, mechanical & plumbing; and Engleby Electric Co., Inc., electrical.

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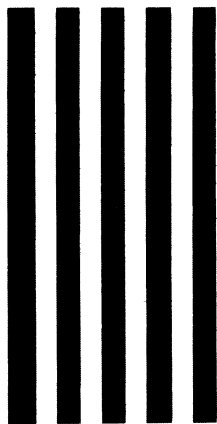
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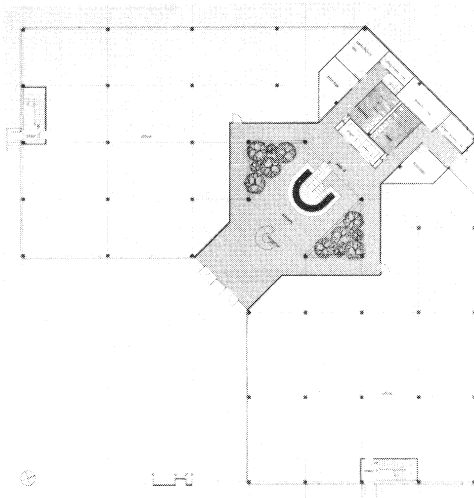


ALM, Inc. Headquarters

RWK International—Architect

Location: Alexandria

Project Architect, Don H. Dao, AIA • **Landscape Architect,** Eugene Roberts • **Interior Designer,** Barbara Mahanes, ASID • **Site Engineer,** Rinker-Detwiler & Assoc. • **Structural Engineer,** Funkhouser Associates • **Mechanical/Electrical/Plumbing Engineer,** E. K. Fox & Associates • **Geotechnical Engineer,** Woodward-Clyde Consultants • **General Contractor,** Eugene Simpson & Brother, Inc.



ALM Inc., a rapidly expanding research and development firm, sought to relocate its headquarters to a new 50,000 square foot building located on a 2.8 acre site in Alexandria. Because of the dynamic nature of this firm, flexibility was a very important element. Special emphasis was also put on creating an open and airy office environment.

Systems furniture was chosen from the start to allow relocating and regrouping work spaces, as required. Because of zoning height restrictions, the building had to be kept at three stories with relatively large floor areas. An "L" shape plan was chosen to reduce the bulk of the building while still maintaining maximum exterior window space. A south facing stepped greenhouse equipped with a heat reclaim system and solar actuated blinds accentuates the front entrance. To provide light to the interior space, an atrium covered with modular pyramidal skylights supported by a space frame was introduced, linking the two wings of the building.

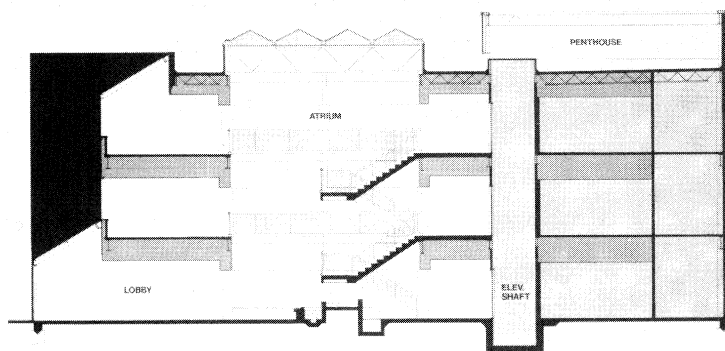
In the lobby atrium area, along the main axis of the building, a cascading semi-circular fountain, flanked by two triangular planters brings life to the space. A monumental and cantilevered stairway was designed to link all three floors and encourage the user to experience the atrium space from different vantage points.

The building has steel frame construction clad with reflective blue glass with the service core

NOTE:

RWK International, Inc. has changed its name to Pace Design, Inc. The name change has been in effect since May of 1984.





A.L.M. HEADQUARTERS

SECTION

4 2'1"



area sheathed with porcelain enamel insulated panels.

The mechanical system consist of variable air volume unitary package on each floor with condensing water loop system and perimeter baseboard resistance heat. The building also features a computerized energy management system.

Eugene Simpson & Brother, Inc. of Alexandria was general contractor and handled excavating, and carpentry.

SUBCONTRACTORS & SUPPLIERS

Franki Foundation Co., Arlington, piling; APAC Virginia, Inc., Chantilly, paving contractor; David Campbell Concrete Construction, Springfield, foundations, concrete contractor & foundation insulation; Trowbridge Steel Co., Inc., Sterling, reinforcing; Virginia Concrete Co., Inc., Springfield, concrete supplier; Southern Iron Works, Inc., Springfield, steel supplier & steel erection; John Hancock Jr., Inc., Salem, steel joists; Nicholas J. Bouras, Inc., Summit, NJ, steel roof deck; and Hamilton Iron Works, Inc., Woodbridge, miscellaneous metal.

Also, Prospect Enterprises, Inc., McLean, roofing, roof insulation & waterproofing; Davenport Insulation, Springfield, wall insulation; AMPAT/Midwest Corp., Cleveland, OH, handrails; Arlington Woodworking & Lumber Co., McLean, millwork, paneling, cabinets & wood doors; Loudoun Sheet Metal Co., Inc., Herndon, sheet metal; Allen Glass Co., Inc., Alexandria, glass & glazing contractor; Yeatman Architectural Hardware, Inc., Clinton, MD, metal doors & frames and hardware supplier; and Paramount Products Corp., Alexandria, window wall & storefront.

And, Russell L. Barton Drywall & Plastering, Inc., Vienna, plaster contractor & gypsum board contractor; HIVA of Springfield, Inc., Springfield, ceramic tile; Southern Floor & Acoustics, Manassas, acoustical treatment; Decorative Rugs & Carpets, Inc., Alexandria, resilient tile & carpet; Madison Coating Systems, Inc., Mayo, MD, painting contractor/supplier & wall covering; Duron Paints, Beltsville, MD, paint manufacturer; Schindler-Haughton Elevator Corp., Alexandria, elevator; Virginia Sprinkler, Springfield, sprinkler contractor; Northern Virginia Plumbing Corp., Alexandria, plumbing fixture supplier & plumbing contractor; Calvert-Jones Co., Inc., Alexandria, heating/ventilating/air conditioning contractor; and Paragon Corporation, Annandale, lighting fixtures/electrical equipment supplier & electrical contractor.

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for the
West Side
Office Building
Norfolk, Va.
Featured in This Issue

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West Side Office Building

The Design Collaborative—Architect

Location: Norfolk

Project Architect/Designer, C. Michael Henry, AIA • Landscape, Craig Woodson • Interior Designer, Shirley Confino • Site Engineer/Surveyor, C. Alan Bamforth, Jr. • Structural Engineer, Alfred J. Benas • Mechanical/Electrical Engineer, Farley Engineering • Geotechnical Engineer, ATEC Associates • General Contractor, Forterra Corporation • Photography, C. Michael Henry, AIA.

When George Garris, Jr. and his brother Jack decided to expand their multi-faceted family business from a base in downtown Norfolk to the rapidly developing Ghent area, they bought what was considered by some the worst building on the worst block of 21st Street. Seeking advice from the Norfolk Redevelopment and Housing Authority on architectural services, the Garris brothers were referred to The Design Collaborative, probably based on the strength of TDC's record of innovative work renovating difficult structures.

Because the new location offered the Garris firm a shorter commute to their docks for their stevedoring ventures, it presented a more convenient headquarters location than the previous office. In addition, their travel agency, which has served downtown Norfolk for over 25 years, had grown to a point that a new branch was feasible in the affluent and fast-developing Ghent area.

The architect's job was to transform the old two-story concrete block building (circa 1940) into an office facility with a corporate identity for the Garris corporations, as well as an image of professional stability for prospective tenants. Since Garris' would be the first property on the block to make the leap into renovation, the final product must also establish the level of quality and design motif for later followers of the trend.

Early in the planning phases, project architect Michael Henry realized that the implementation would be as great a challenge as the design. On a portion of the property that was designated for parking was a short order restaurant which had to relocate in the renovated office building without closing during a work week.

In addition, four other tenants had to be relocated, without lost time, to various parts of the 4,000 square foot addition and/or the 8,000 square foot renovated structure. As if that wasn't enough, both the Garris firms had to vacate their existing premises in less than four months, putting considerable scheduling pressure on everyone.

At that point, the architect advised Mr. Garris to negotiate a contract with a general contractor and cooperate with the contractor to meet both time and budgetary restraints. Forterra Corpo-

ration was selected and reviewed the preliminary design in an effort to tailor the construction process to their business methods.

The end product was a wood and steel frame two-story addition, connected by a concrete and steel bridge to the existing building, which was gutted in phases and renovated for the new tenant spaces. The exterior was faced with split-ribbed masonry at ground level and insulating plaster at the second floor. The rough surface of the masonry was selected to discourage graffiti and vandalism; the insulating plaster was chosen for its thermal value and to tie the fascia of both buildings and the bridge into a unified whole.

New windows, doors and storefront sections were installed throughout and four of the prominent corners were cut back at an angle to dramatize the new tenant entries. Sixteen of the new windows are circular, four feet in diameter, flanking each corner at the upper level and restating the visual image of new growth. Through a team effort among the owner, architect, and contractor, the West Side Offices became a noteworthy element of the 21st street revitalization—on time, within budget, and pre-leased to full capacity. The team hopes to repeat its performance on nearby properties in the near future.

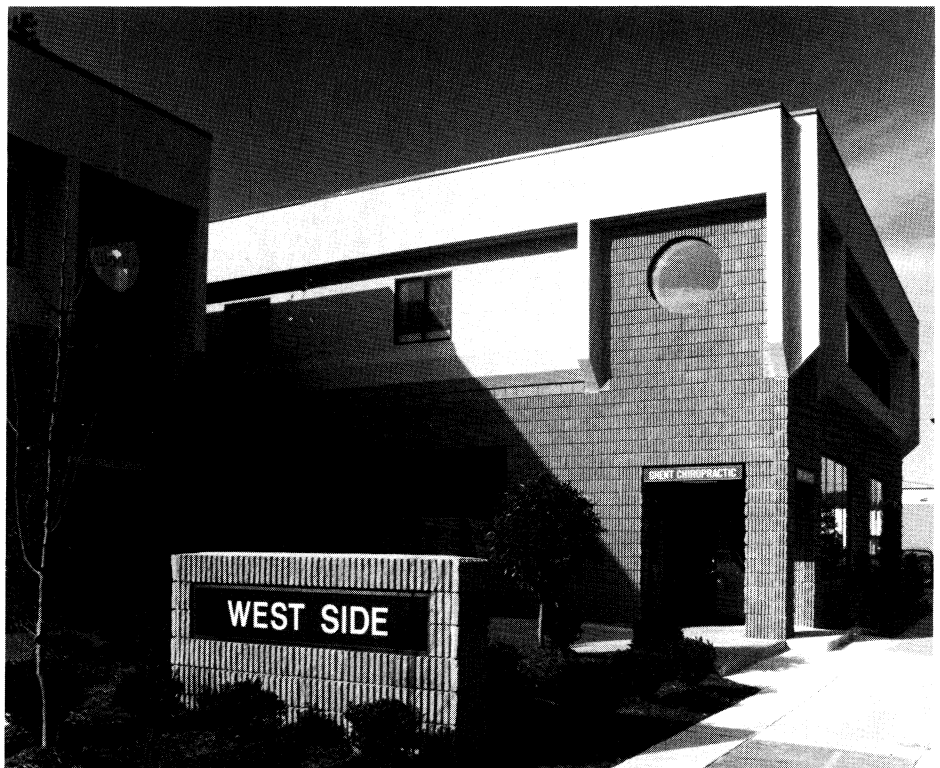
Forterra Corporation of Virginia Beach was general contractor and handled concrete work.

SUBCONTRACTORS & SUPPLIERS

Other Virginia Beach firms were: Hudson Masonry Co., Inc., foundations & masonry contractor; Greenwich Supply Corp., wall insulation, windows & gypsum board contractor; Creative Structures, carpentry & structural wood; B & T Construction, Inc., cabinets; Dominion Contract Carpet Inc., ceramic tile, resilient tile, carpet & special flooring; Anderson Painting, painting contractor; Byler Plumbing, plumbing contractor; and Eagle Electric Corp., electrical contractor.

Norfolk firms were: Dozier Enterprises, excavating; Winkelman, Inc., paving contractor; Hall-Hodges Co., Inc., reinforcing; Sadler Materials, concrete supplier; Lone Star Cement, Inc., masonry manufacturer/supplier; Norfolk Iron & Wire Works, Inc., steel supplier/erection & miscellaneous metal; H & L Corp., handrails & paneling; Glass Corp., glass, glazing contractor & storefront; Door Engineering Corp., metal doors & frames; Addington-Beaman Lumber Co., Inc., wood doors; Chesapeake Door & Hardware, hardware supplier; and Ferrell Lino-leum & Tile Co., Inc., acoustical treatment.

Others were: Craig Woodson, landscaping contractor; Richman Steel, Newport News, metal ornamental; B & J Roofing, Chesapeake, roofing & roof insulation; K & P Caulking & Window Cleaning Co., Portsmouth, caulking; and Aircon, Ltd., Chesapeake, heating/ventilating/air conditioning contractor.

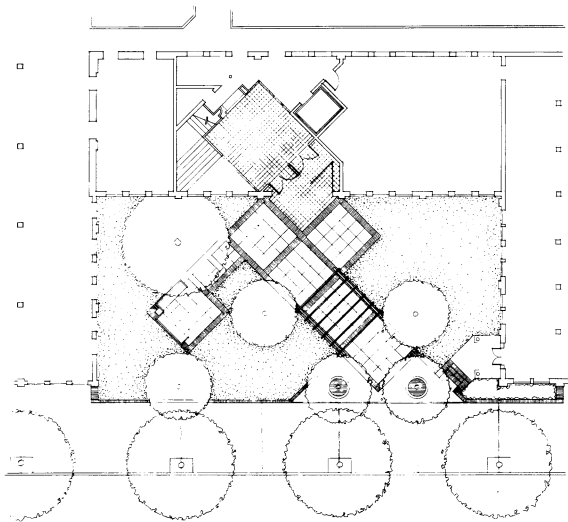


Bookbindery Office Building

SWA Architects, Incorporated

Location: Richmond

Project Architect/Designer, SWA Architects, Inc. • Landscape Architect, Earth Design Associates • Interior Design, SWA Architects, Inc. • Structural Engineer, Dunbar, Milby & Williams • Construction Manager, ACM Construction Management • Photography, Whitney Cox.



PROGRAM

Bookbinders Associates, the new owners, wanted to convert this vacant two-story factory building into modern speculative office space. A very competitive rental market required a tight project budget. The required tenant parking had to be provided within the limited site area.

SITE

The urban site fronts Broad Street, a major commercial street in Richmond, and is adjacent to the downtown area. The site was entirely occupied by the two-story brick structure and an attached four-story concrete structure, except for a small courtyard which opened to the street in the building's center.

HISTORICAL BACKGROUND

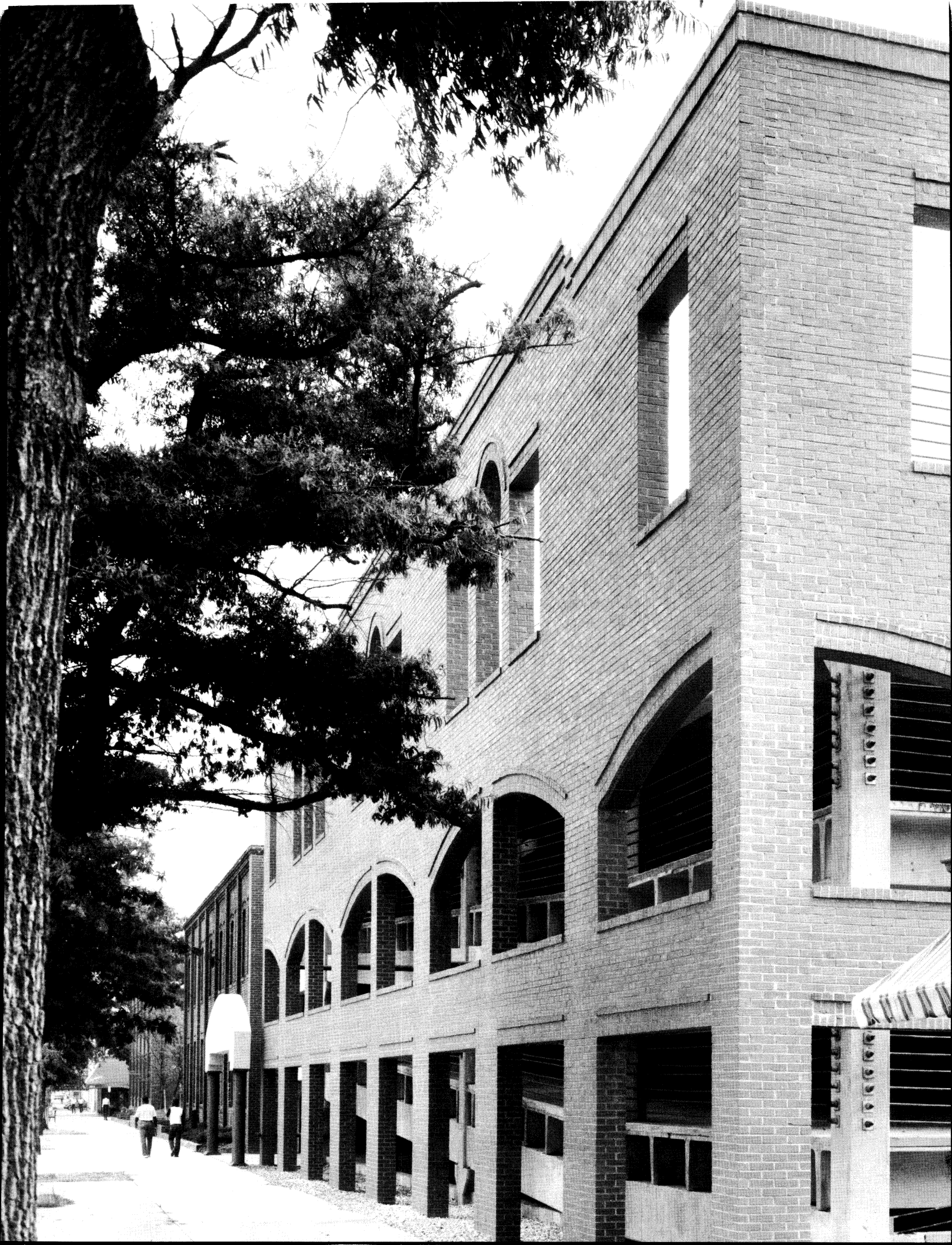
This handsome orange brick building was the headquarters of the L. H. Jenkins Book Manufacturing Company from 1901 to 1980. Among the bestsellers printed and bound there was the first publishing of the legendary *Gone With The Wind*. The first part of this complex was built in 1901 and was added to throughout the 20th century including three additions to the original brick building. In the 1930s a four-story concrete warehouse structure was added, one of the first reinforced concrete structures built in Richmond.

DESIGN SOLUTION

The design solution provides a completely modern office environment while retaining the inherent qualities of the handsome old industrial building. While entirely renovated with new finishes and systems, the original exposed brick interior walls were cleaned and retained, and new metal replacement windows match the original wood double-hung windows.

By relocating the building's entrance from the side to a new atrium off the courtyard, a new progression of spaces is developed, changing the user's perception as he approaches and enters the building. The courtyard acts as a transition from the noise of the city. One enters the building through stained glass doors into the new two-story atrium which celebrates the rebirth of this old factory into a modern office building with its patterned tile floor, wood and brass handrails, and industrial skylight. Access





to the offices is through arched openings of exposed brick in the original building's front wall.

To provide the required on-site parking, the original concrete warehouse portion of the complex was removed and replaced with a new parking deck. A free-standing brick masonry screen on the street facade integrates this straightforward functional structure with its older surroundings

by relating to the scale and language of the existing streetscape.

The project was completed on time and within budget. Completed at the end of 1983, the building is now fully leased.

ACM Construction Management of Richmond acted as construction manager for the project.



SUBCONTRACTORS & SUPPLIERS

(Richmond firms unless noted)

Kenbridge Building Systems, Inc., excavating & concrete contractor; Concrete Structures, Inc., concrete supplier; John Gist, masonry contractor; Western Waterproofing Co., Inc., masonry restoration; Hertless Brothers, Inc., built-up roof; MEM Interiors, Inc., Mechanicsville, metal doors & frames & gypsum board contractor;

Nu-Sash of Virginia, windows; HIVA of Richmond, Inc., Ashland, ceramic tile & acoustical treatment; Associated Carpets & Interiors, resilient tile & carpet; Lane Brothers, Inc., painting contractor; Consolidated Elevator Co., elevator; Eveready Oil Supply Co., plumbing contractor; Howell's Heating & Air Conditioning, Ashland, heating contractor; and Associated Electrical Service, Inc., electrical contractor.



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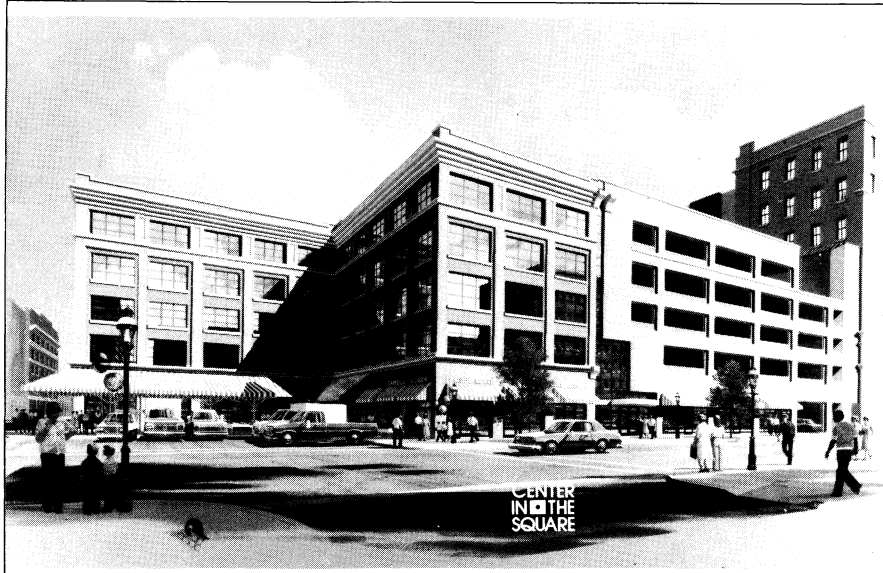
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As general contractor, J. M. Turner & Company faced unique construction challenges. Not only did an aging five story warehouse have to be renovated to house the new cultural center, it also had to be connected to the adjacent multi-level Market Square parking garage. A five story atrium provides an attractive transition between the buildings and becomes the focal point of the entire complex. The total cost of construction and renovation was more than \$8 million.

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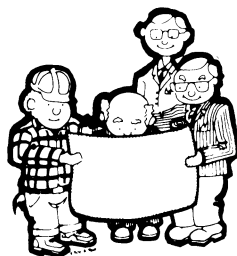
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featured in this issue.*

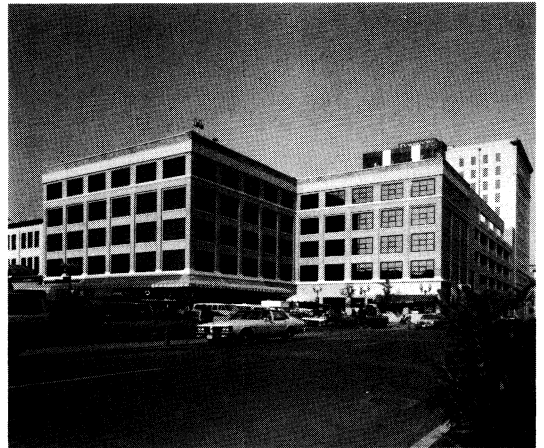
Center-in-the-Square

Hayes, Seay, Mattern and Mattern (HSMM)—Architect

Renovation of the McGuire Building • Location: Roanoke

Project Architect/Designer, Interior Designer, Structural/Mechanical/Electrical Engineer, HSMM • Acoustical Consultant, Bolt Beranek and Newman • Theatre Equipment Consultant, Systems Design Associates • Planetarium Consultant, Don Lunetta • General Contractor, J. M. Turner & Co., Inc. • Photography, Huffman Studio and Maxwell Mackenzie.

Center-in-the-Square is a multi-faceted project which houses five autonomous cultural organizations in one facility. Located in the farmer's market in Roanoke, Virginia, the project is part of the revitalization of the city's downtown. The building itself combines 80,000 square feet of





existing warehouse space in the old McGuire Building with approximately 15,000 square feet of new space including a 500-seat theater and a 150-seat planetarium, contiguous to a new 300-car parking garage.

One of the central features of the facility is a full-height atrium west of the McGuire Building, formed by a void between the old and new construction. The atrium narrows at the entry and gradually enlarges as it extends into the center of the facility. This central space forms the heart of the complex, where all public vertical circulation takes place. From the central circulation point on any floor, a visitor can reach all of the galleries, exhibits, or shows within the facility. Because the west side of the McGuire Building will be opened up by exposing the structural skeleton, there will be a visual relationship between floors from the central space.

The McGuire Building contains all of the galleries, exhibits, offices, shops, rehearsal and storage spaces of the five member organizations: the Roanoke Museum of Fine Arts, the Mill Mountain Playhouse, the Roanoke Valley Science Museum, the Roanoke Valley Historical Society, and the Roanoke Valley Arts Council.

The McGuire Building, the first reinforced-concrete structure built in Roanoke, was opened in 1914 as a farm supply company. A large elevator in the rear of the building carried farm vehicles to various floors for display or storage. This elevator will continue to be the primary means of vertical transportation for incoming exhibits. On some floors, the existing interior (characterized by round concrete columns with bell capitals supporting a two-way flat slab, board formed) will be preserved and intensified with color and form definition. On other floors, the columns will be integrated into the exhibit scheme and will tend to disappear. The intent is to provide variety without destroying the integrity of a fine example of turn-of-the-century architecture.

The exterior of the McGuire Building is to be restored. The wood top cornice, which was removed in 1968, will be put back in metal in a form that makes an up-to-date comment on the 1914 design. The cavetto mouldings will be either restored or replaced. The single-pane factory sash system will be replaced with double glazing in a similar system that recalls the pane definition typical of factory glazing. The metal portion of the glazing system is colored (baked auto lacquer) to provide a subtle hint of adaptive reuse. Otherwise, the exterior masonry has been cleaned and has been repainted where necessary. When the building is complete, market-stall awnings will be added around the ground floor.

The exterior of the new construction takes its cues from the existing building. A vertical glass element separates the old from the new and defines the atrium. The masonry openings in the parking garage are proportionally similar to those in the McGuire Building; they align horizontally and have limestone belt coursing for compatibility. This compatibility is reinforced by the masonry detailing, which reflects the

spirit of the warehouse detailing. Additional commercial space on the ground floor will extend that expression to the west, past the Campbell Avenue entrance in order to continue the urban character of the street.

The facility attempts to combine old and new architecture in a novel way without sacrificing functional requirements. The definition and ex-



pression of these requirements have formed the basis for an exciting learning experience for all the groups involved in the project.

J. M. Turner & Co., Inc. of Salem was general contractor and handled concrete work, steel erection and carpentry. The owner handled carpeting.

SUBCONTRACTORS & SUPPLIERS
(Roanoke firms unless noted)

Valley Steel Corp., Salem, reinforcing supplier; Concrete Ready Mix, concrete supplier; Masonry Contractors, Inc., Salem, masonry contractor; The Belden Brick Co., Canton, OH, masonry manufacturer; Webster Brick Co., Inc., masonry supplier; Riverton Corp., Riverton, mortar; Fab-

ricated Metals Industries, Inc., steel supplier, miscellaneous metal & handrails; and I. N. McNeil Roofing & Sheet Metal Co., Inc., roofing, roof insulation & sheet metal.

Also, Key Brothers Manufacturing Co., Salem, millwork; Stroud Weatherstripping Co., caulking; Diamond Glass Corp., Salem, glass, glazing contractor, windows, window wall & storefront; Roanoke Construction Specialties, Inc., metal doors & frames, wood doors & hardware supplier; Argabright Contractors, Inc., plaster contractor, gypsum board contractor, acoustical treatment & resilient tile; and Botetourt Tile Co., Fincastle, ceramic tile.

And, Costen Floors, Inc., Richmond, wood flooring; Contract Wall Coverings, Salem, painting contractor; Harwood Paint & Wallpaper, paint

supplier; Benjamin Moore Co., paint manufacturer; Dover Elevator Co., Greensboro, NC, elevator; Magic City Sprinkler, Inc., sprinkler contractor; Hajoca, plumbing fixture supplier; G. J. Hopkins, Inc., plumbing/heating/ventilating/air conditioning/electrical contractor; Westinghouse Electric Supply Co., lighting fixtures supplier; and Williams Supply, Inc., electrical equipment supplier.

Specialties: Overhead Door Co. of Roanoke, overhead doors; Altaman Stage Lighting Co., stage lighting; Roscoe's Laboratories, Port Chester, NY, orchestra pit platform; Theatre Equipment & Service Co., Pittsburgh, PA, theater & planetarium seating; Stage Equipment Contractor, Greensboro, NC, stage rigging equipment & drapes; and Lee Hartman & Sons Sound Equipment, Inc., stage sound system.

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Offices of SWA Architects

SWA Architects, Incorporated

Location: Richmond

Project Architect/Designer, Larry S. Shifflett
• General Contractor, SWA Architects • **Photography,** Whitney Cox.

PROGRAM

Convert the lower floor of a vacant three-story building in a deteriorated neighborhood into architectural offices for a 10-12 man firm. The ground floor location on a busy commercial street dictated a need for privacy and security while maintaining a feeling of openness and natural lighting. A mid-block location limited natural light to the front and rear facades.

SITE

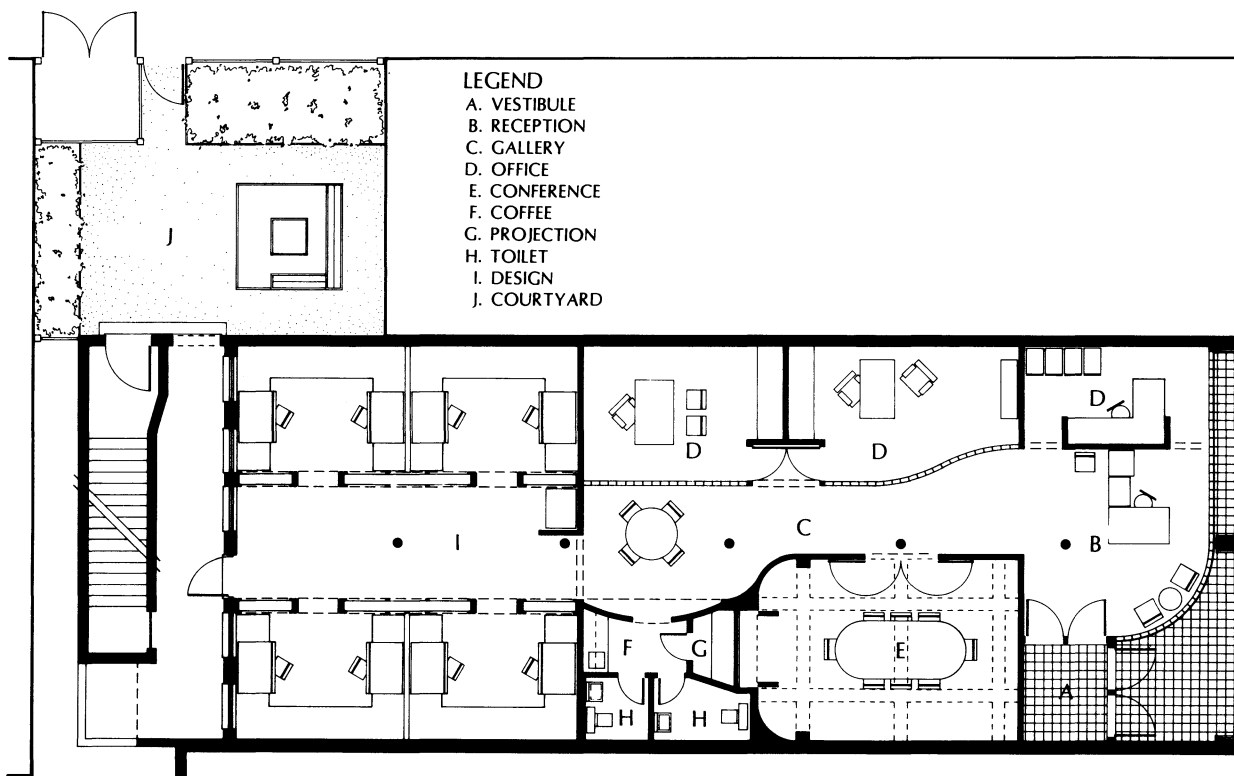
The building is in an underutilized, decaying block of turn of the century commercial structures in the historic Shockoe Bottom District in Richmond. The site is located in the middle of a commercial block immediately abutting buildings on both sides. Access to the building is available at the front and through a rear courtyard.

DESIGN SOLUTION

Overcoming the limitations of natural lighting in a mid-block building with only end exposures, the design utilizes an open office plan with func-



17th STREET



MAIN STREET





tionally defined spaces. While preserving the brick facade of the historic storefront, a new curved, glass block infill provides an inviting entrance and is topped with large clear glass transom lights which allow uninterrupted infiltration of natural light deep into the office while preserving privacy. On the interior, a second curved, glass block wall capped with an unbroken painted drywall band defines a circulation spine creating a streetlike circulation spine through the office. The original tin ceiling, wood floors and newly introduced 1930's lighting fixtures are contrasted with office, conference and core spaces that are built free from the enclosing envelope of the original building. The juxtaposition of the old and new provides a visual showcase for the firm's design work.

TECHNICAL INFORMATION

The adaptive reuse of this structure required stringent construction limitations in an effort to take advantage of its historic qualities while converting it to an efficient office space. The original masonry facade was cleaned and restored while an inappropriate 1950's storefront was removed and replaced with a new glass block infill. Original wood floors, tin ceiling and cast iron columns were meticulously salvaged and restored with the infill construction built free from the overall volume of the original space.

Glass block was chosen for its inherent qualities of spacial continuity and light infiltration while insuring visual privacy.

The forced air heat pump system is exposed and located with minimum intervention in the voluminous space fulfilling a requirement to be placed above the 100 year flood plain. The lights were positioned to create a comfortable ceiling plane for the working surfaces.

SWA Architects, Inc. of Richmond, the architect/owners, acted as their own general contractor.

SUBCONTRACTORS & SUPPLIERS (All Richmond firms)

B. J. Drummond, concrete contractor, masonry contractor & glazing contractor; Pete Highburger/David Smith, carpentry; Lee Lowenstein, cabinets; PPG Industries, Inc., glass manufacturer; Chuck Meredith, plaster contractor & gypsum board contractor; Charles E. Cheatham, Jr., painting contractor; Richmond Sprinkler Corp., sprinkler contractor; Eveready Oil Supply Co., plumbing/heating/air conditioning contractor; and Pete Capps, electrical contractor.







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St. John's Episcopal Church Renovation

The Design Collaborative—Architect

Location: Hampton

General Contractor, Hudgins Construction Co., Inc.

Today's buildings with their life expectancy of less than 50 years, can stand up and salute St. John's Episcopal Church in Hampton as one of the grand old guard which has survived 256 years, endured three wars and three razings. The British burned it during the American Revolution and again during the War of 1812. To keep it from falling into Union hands, local Confederate partisans burned it again in 1861. Its superbly crafted masonry walls have stood all tests of time and flames.

Recently, the dignified craftsmanship of the church's 18th Century master builders was embellished in a conversion/renovation project, one of many on record at old St. John's. The architect, C. Michael Henry, a native of Newport News, grew up as a confirmed member of this congregation and has witnessed its architectural evolution over the last three decades.

With respect for the history and traditions of this parish, the architect has accommodated contemporary worship services in harmony with the centuries of history it complements.

Several problems were addressed in the solution: expansion of the chancel to accommodate three clergy in full vestments during communion services, thereby increasing the length of the communion rail and allowing more communicants to kneel together. This also improved circulation to and from the chancel, which was a major consideration of the congregation.

Since the chancel is the main focal point of the sanctuary, enlarging its proportions was a sensitive issue with the congregation. They emphasized the significance of each element, focusing on the marble rail and especially the altar. The extension of the communion rail required fabricating a new section of marble in a matching shape and then structurally splicing old and new into one rail.

Where the old organ console was removed, a new set of steps to the chancel was installed. Custom designed wrought iron railings with brass finials were fabricated to exactly match the existing railing at the nave entrance to the chancel.

In 1977, when the new pipe organ and choir were located in the west balcony of the sanctuary, the small pipe chamber (13' x 16') north of the chancel was left vacant and in disrepair. Creating a





chapel from this skeletal origin was to be an intricate and painstaking affair. In keeping with the arched openings in the two-foot thick masonry walls which support the church's three-story tower, a trio of rounded arches was created in wood molding on the two walls opposite the screens. The extension of four arches forms a groin vault reminiscent of gothic ancestors, with the canopy lines converging in a central point accented by a light fixture that was relocated from the west balcony during the installation of the new organ. This is seen from two directions through antique wooden grilles incorporating the triple-arched design which has become the leitmotif of the trinity in the surrounding walls of the newly created chapel.



A complicating aspect of the conversion was the requirement to create a new intermediate level above the chapel in what was previously a 20-foot-tall pipe chamber. This floor is supported on four new columns which are integrated into the arch motif of the chapel. The floor framing was, of necessity, lower than the top of the old masonry arch. This was camouflaged with a foil wall covering behind the upper portions of the refurbished grille to conceal the structure. The foil reflects light back through the grille, creating the illusion of openness beyond, as if the new floor were invisible.

One short pew was removed to allow access from the north transept to the new chapel. This facilitates circulation away from the communion rail and visually connects the chapel to the sanctuary. This area is of most importance when it provides 26 overflow seats for special services. Its open design can accommodate a

small altar for small weddings, baptisms or other services.

Upstairs on the new second floor, a clergy vesting room was added. The clergy room has two frosted glass interior windows letting in natural daylight from the stairway, but allowing privacy for dressing and meditation.

The two existing choir vesting rooms were remodeled and enlarged into what was an old storage room on the third floor. An old wood louver was replaced with a new operable window to take advantage of the natural light, fresh air and the inspiring view of the historic churchyard, which is a part of time frozen for review.

Huddins Construction Co., Inc. of Newport News was general contractor and also handled carpentry.

SUBCONTRACTORS & SUPPLIERS

Other Newport News firms were: Moore's Building Supplies, wood doors & windows; Paul's Plaster & Acoustic Co., Inc., plaster contractor & gypsum board contractor; Pompei Tile Co., Inc., ceramic tile & specialties; and Swing Electrical Co., Inc., electrical contractor.

From Hampton were: Blue Roofing Co., roof & built-up roof; Virginia Steel, miscellaneous metal; A. C. Thomas & Co., millwork & cabinets; Southeastern Tile & Rug Co., Inc., resilient tile & carpet; and Houston Floor Service, wood floors.

Others were: E. Caligari & Son, Inc., Norfolk, painting contractor & special wall finish; and W. C. Sawyer Plumbing Co., Inc., Carrollton, equipment & plumbing contractor.

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Peking Pavilion Restaurant

Thomas W. Hamilton & Associates—Architect

Location: Shockoe Slip, Richmond

Project Architect/Designer, Bruce D. Perretz, Thomas W. Hamilton & Assoc. • **Interior Designer,** Elissa A. Shoolroy, Thomas W. Hamilton & Assoc. • **Structural Engineer,** Dunbar, Milby, Williams • **Mechanical/Electrical Engineer,** H. C. Yu & Associates • **General Contractor,** David E. Smith, General Contractors, Inc. • **Photography,** Huffman Studio.

Urban rebirth is a growing concern throughout the country and Richmond, Virginia. Urban projects have begun to keep up with the time, as our entire downtown area has become a developers dream. Shockoe Slip in Downtown Richmond was the spark of our city's urban rebirth a decade ago. Restaurants and entertainment establishments are the main attractions flanked by specialty retail shops, and now large scale office projects are underway that will help to support Richmond's continuing urban rebirth.

The Peking Pavilion Restaurant in Shockoe Slip had to make a strong statement if it was to compete with already successful mainstays such as the Tobacco Company, the Bowers Building, and the New James River Center.

The building that the Peking Pavilion Restaurant is located in is one of the most important historical sites in Shockoe Slip. The corner of 13th Street and Cary Street (formerly Gatsby's and 1302) has the only granite sidewalks left in Shockoe Slip. Great care was taken in placing the marble Foo Dogs that flank the Peking Pavilion's entrance so as not to damage the sidewalk. The building facade (intricate brick work and trim) was left intact as required by the City Architectural Review Board and the Urban Design Commission. New black awnings with gold logos were installed over each window of the restaurant to emphasize the establishment and the entrance to it.

The interior of the new restaurant has a contemporary Chinese motif highlighted with the etched glass panels, Oriental tapestries and Chinese antiques. The reflective finishes such

as the glass etchings and the mirrored chair railing and door trims in conjunction with the antiques, give the interior timeless appeal.

The furniture, tapestries and wood carvings were all purchased by the restaurant owners, who also have a Chinese import shop. They



were aware that only a quality interior would provide the fundamental attraction, along with good food and service, of which they knew they were capable.

David E. Smith the general contractor, had experience and knowledge of renovation and restoration projects in the area and played a very important part in the teamwork that was necessary to accomplish this unique job.

David E. Smith, General Contractors, Inc. of Richmond, the general contractor, also handled

foundations, steel erection, carpentry and structural wood.

SUBCONTRACTORS & SUPPLIERS (All Richmond firms)

John Smith Woodwork & Design, cabinets; Locklear Heating & Air Conditioning, sheet metal, & heating/ventilating/air conditioning contractor; Richmond Glass Shop/Arthur Miller Studios Ltd., glass; Arthur Miller Studios Ltd., glass etchings; Architectural Hardware, Inc., metal doors & frames & hardware supplier; SDG,

Inc., wood doors; and Lampley Brothers Dry-wall, gypsum board contractor.

Also, David Jones Tile Contractors, ceramic tile and quarry tile; Morris Tile Distributors, Inc., supplier of structural (glazed) tile; Ed Powers Painting Contractors, painting contractor; L. H. Gay Elevator Co., Inc., elevator; Nicholson Sprinkler Corp., sprinkler contractor; John G. Kolbe, Inc., plumbing fixture & electrical equipment supplier; I. M. Groome Plumbing & Heating, plumbing contractor; Noland Co., lighting fixtures supplier; G. D. Crosby Electric, electrical contractor; and Norvell Awning Co., exterior awnings.



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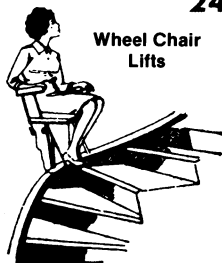
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Lynnhaven North Professional Building

The Design Collaborative—Architect

Location: Virginia Beach

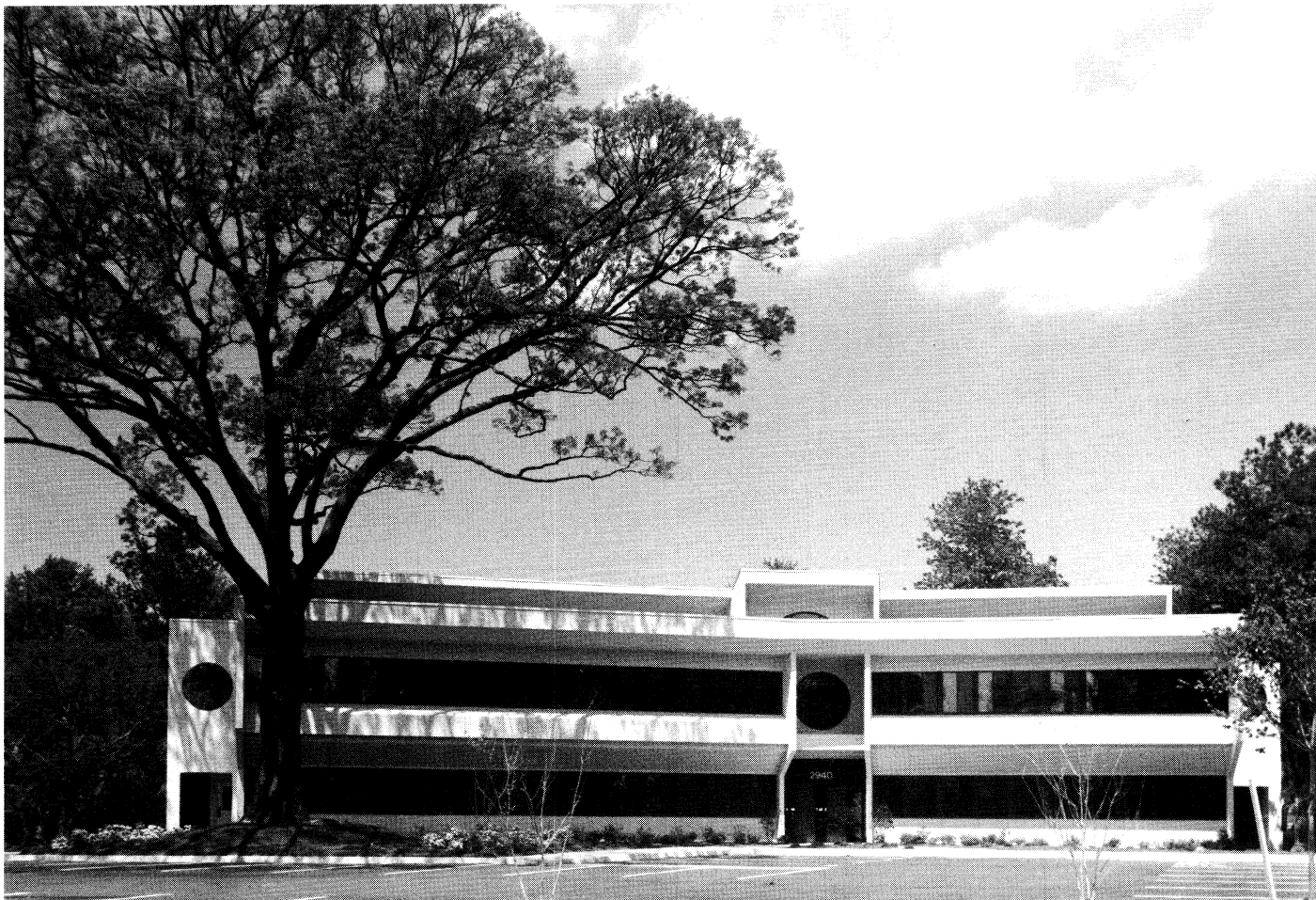
Project Architect/Designer, Laszlo Aranyi, AIA • Site Engineer/Surveyor, Engineering Services, Inc. • Structural Engineer, Stroud-Pence Associates, Ltd. • Mechanical Engineer, Old Dominion Engineering • Energy Consultant, D. W. Abrams, PE, & Associates • Construction Manager, CM Associates, Inc. • Photography, Robert Ander & Laszlo Aranyi.

The owners, an architect and a financial consultant, wanted to erect a building that would accommodate their separate, growing businesses, with extra space for leasing or expansion when the time comes. They both wanted a location that would provide pleasant surroundings—trees, water, etc.—and a building that was flexible enough to lend itself to a variety of professional tenants. Because the architect is interested in the promotion of passive solar design, he wanted the building to reflect his design abilities and be a model of energy efficiency and affordable, low-maintenance construction.

Located twelve miles from the oceanfront in a rapidly developing area of Virginia Beach, the

site is near the beach's "downtown financial district," convenient to the expressway and several major shopping centers. A winding marshland creek and woodland setting provide the backdrop for the building. Surrounded by tall pine trees, oaks and marsh grasses, the lot faces south on North Lynnhaven Road.

The building faces south, to take maximum advantage of the sun. The irregular shape of the site boundaries called for a wide "V" shape, creating a subtle impression of open arms, welcoming people inside. Special features include a landscaped atrium admitting daylight into the center of the building and a double air-lock entry. Closing off the lobby with a double set of doors cuts down on energy loss through drafts



and creates an insulating space between inside and outside. The exterior finish is a synthetic stucco, providing exterior insulation, in addition to low maintenance.

Clerestory windows atop the second story run the length of the building, bringing south light deep into the upper rooms for year-round daylighting and solar heating. Photoelectric dimmer controls on the electric lights measure the amount of natural light coming in and raise or lower the electric output to keep a balance of light. Windows on the north are minimized, as windows on the south are maximized for energy conservation. All windows are double-glazed and operable for outside air circulation during temperate months.

Interior spaces receive "borrowed light" from the perimeters through walls with cut-out spaces, sliding glass doors, and transom windows that transfer the light inward. Specially designed blinds control the reflection of light, bouncing it off white ceilings in varying degrees as desired.

Overhangs keep out high-angled summer sun, but allow in more of the low-angled winter sun. Reflective window ledges reflect natural light deep into the interior. Heating and air conditioning are provided by eight air-to-air heat pumps which serve eight different zones of the building. Energy monitors and light meters on the roof will aid in the overall assessment of energy consumption statistics. Energy cost is expected to be 50% of that of conventional buildings in the area.

CM Associates, Inc. of Virginia Beach acted as Construction Manager for the project.

SUBCONTRACTORS & SUPPLIERS

Other Virginia Beach firms were: Gunter Brothers Concrete Co., Inc., concrete contractor; Sadler Materials, concrete supplier; Kempsville Building Materials, roof deck & structural wood; Ayers Insulating & Supply Co., Inc., roof insulation & wall insulation; B. G. Martin Construction, Inc., carpentry; Carpentry by Crewdson, millwork; Carpet Interiors Unlimited, Inc., carpet; Carpet Suppliers of Virginia, Inc., special flooring; and Tony Annarino, Jr., Inc., plumbing fixture supplier.

Norfolk firms were: Winn Nursery, landscaping contractor; W & M Masonry Contractors, foundations & masonry contractor; Baker Roofing, Carlisle membrane roof; Kitchen Towne Div. of Towne Distributors, Inc., cabinets; Colonial Insulation, Inc., Acorn windows; PPG Industries, Inc., storefront; Door Engineering Corp., hardware supplier; Wenger Tile & Plastering Co., Inc., gypsum board contractor; and S. E. Parker, Inc., acoustical ceiling.

From Chesapeake were: W. L. Birsch, Inc., excavating & paving contractor; Mid-Atlantic Supply, Inc., metal doors & frames; Interior Systems, Inc., painting contractor; Aircon Ltd. plumbing/heating/ventilating contractor; and L. E. Ballance Electrical Service, Inc., electrical contractor.

Others were: Suffolk Concrete Products, Suffolk, masonry supplier; Trus Joist Corp., Valdosta, GA, wood joists; Herrin Brothers Erection Co., Portsmouth, caulking; Forms & Surfaces, Santa Barbara, CA, special wood entry doors; and Baytile Floors, Portsmouth, ceramic tile.





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Westgate Center

Dills-Ainscough & Associates—Architect

Location: Norfolk

**General Contractor, Hudson Enterprises •
Photography, Daniel C. Dills.**

Westgate Center, formerly the Landsdale Elementary School, was purchased from the City of Norfolk in March of 1983 by Hudson Enterprises. The school was originally constructed over 30 years ago and had been unoccupied for several years during which time it had deteriorated considerably. Consideration was being given by the City of Norfolk to have the school demolished.

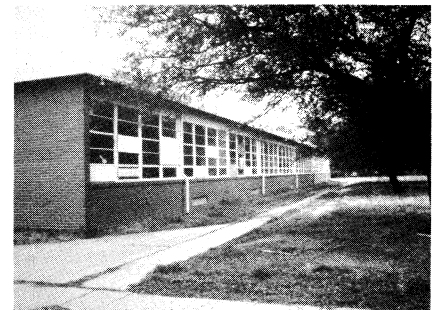
The exterior of the original structure was red brick with large expanses of glass at the classroom areas. The design task was to provide a retrofit from a red brick school to a contemporary office building, with flexibility in the space to be developed internally.

The client served as his own contractor. Exterior glass areas and certain masonry areas were removed. The new exterior wall construction consisted of masonry infill with the addition of a four-foot parapet at the roof line. This parapet served to change the character of the building as well as hide roof-mounted equipment. The exterior is faced with an insulated ST0 system. The color band on the exterior was based on the client's concern that he have flexibility in the fenestration. The exact location of the windows was also to be determined in the field, based on a tenant layout.

Mechanical and electrical systems were completely replaced using natural gas as an energy source. A majority of the windows and doors were replaced using insulated units. The insulating quality of the existing roof structure was enhanced by dropping a ceiling inside below the existing plaster ceilings.

Interior spaces have light color schemes throughout in order to enhance a more spacious feeling. Also utilized were the numerous existing skylights, which add to the openness of the overall interior. Each space has its own rear service and front entrance door. This enables tenant flexibility within each leased area for delivery and storage requirements. One of the more interesting tenants, Johnson and Wells Culinary College, from Rhode Island, is located within the space which formerly housed the school kitchen and cafeteria, this enabled them to utilize a major portion of the existing kitchen facilities.

Important to both the architect and owner were the existing trees which landscaped the five-and-one-quarter acres of land. Housing a total of 35 tenants, the building contains 60,000 square feet of space. Overall, the renovation was a successful one, providing the Norfolk

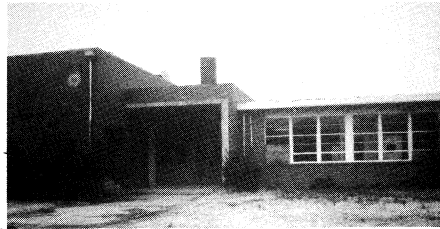


BEFORE

AFTER



AFTER



BEFORE

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The owner Hudson Enterprises of Norfolk acted as general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

(Virginia Beach firms unless noted)

McDonald Garden Centers, landscaping contractor; Asphalt Roads & Materials Co., Inc., paving contractor; Hudson Masonry Co., Inc., masonry contractor; C. E. Barker & Co., steel erection; Allen's Roofing, Norfolk, built-up roof; Walker & Laberge Co., Inc., Norfolk, glass; Lynch Incorporated, Chesapeake, gypsum board contractor; S. E. Parker, Inc., acoustical treatment; The Square Yard, Inc., special flooring; Tony Annarino Jr., Inc., plumbing contractor; R & G Electronics, Inc., Portsmouth, heating/ventilating/air conditioning contractor; Moran Electric, electrical contractor; and Shaw Paint & Wallpaper Co., Inc., Hampton, exterior coating system.

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'A Trifling Pursuance'

by Ralph Snell, AIA

The categories are as follows:

F & P Faces & Places
TE That's Entertainment
WW Written Word
TERMS Terms of Enrichment
PT Past Tense

The answers are on page 62.

- I. F & P Who's the father, Eero or Eliel?
TE Who played Stanford White in the movie "Ragtime?"
WW What is the cover price of *Architectural Record*?
TERMS What is the nominal size of a 2 x 4?
PT Who won the second prize in the Chicago Tribune Tower competition?
- II. F & P Who designed Habitat?
TE What did Gustav Mahler and Walter Gropius have in common?
WW Who wrote, "Structural honesty seems to me one of the bugaboos that we should free ourselves from very quickly?"
TERMS What's a male caryatid called?
PT What has 176 famous windows?
- III. F & P What does I.M. stand for in I.M. Pei?
TE Who lived on Valley Road?
WW How many editions of *Architectural Graphics Standards* are there?
TERMS What is translated "baked earth?"
PT What came first, the Luxo lamp or the Barcelona chair?
- IV. F & P By what name is the Kaufman House better known?
TE Who sang, "Architects may come and Architects may go and Never change your point of view."?
WW Who wrote *I Seem To Be A Verb*?
TERMS What is a brise soleil?
PT Who was the only major American architect to win the Congressional Medal of Honor?
- V. F & P Who was Hitler's architect?
TE What building did King Kong climb in the 1976 movie version?
WW What was the former name of the magazine *Architecture*?
TERMS What is the curved triangular area between a dome and a square base called?
PT Who invented the dumbwaiter?

- VI. F & P What is located at the intersection of Broadway and Fifth Avenue?
TE Who played Howard Roark in the movie "The Fountainhead?"
WW Who wrote *The Fountainhead*?
TERMS Name the three orders.
PT What was the subject of the 1961 design exam?



ARCHITECTURAL PURSUIT

- VII. F & P Who designed the Vietnam Veterans Memorial?
 TE On what tv show did Roy Thinnes play an architect?
 WW Who wrote, "To me air conditioning is a dangerous circumstance?"
 TERMS What does the C in NCARB stand for?
 PT What is Shreve, Lamb and Harmon's most famous building?
- VIII. F & P Who killed Stanford White?
 TE What is the character name of the architect played by Meredith Baxter Birney in the tv show "Family Ties?"
 WW What weighs three pounds and has 1366 pages?
 TERMS What does a glyptotheca contain?
 PT In 1910, what did LeCorbusier, Walter Gropius, and Miles van der Rohe have in common?
- IX. F & P What's the real name of Ronchamp?
 TE Who played the architect in the movie "Twelve Angry Men?"
 WW Who designed the Hearst castle?
 TERMS How many millimeters are there in a centimeter?
 PT What happened on the 78th and 79th floors of the Empire State Building on July 28, 1945?
- X. F & P What architect used to dress up as a monk?
 TE What were the symbols of the 1939-40 New York World's Fair?
 WW Who wrote *The Bridge Between Matter and Spirit Is Matter Becoming Spirit*?
 TERMS What is a canopy over an altar called?
 PT What is the best preserved Roman building, in Rome?
- XI. F & P Who designed Brasilia?
 TE From what song are the words "She said she'd married her an architect who kept her warm and safe and dry?"
- WW What two books were the basis for the movie "The Towering Inferno?"
 TERMS What's a stoa?
 PT Who designed the unornamented Steiner House?
- XII. F & P What does the H.H. stand for in H.H. Richardson?
 TE By what name do we better know the Ryman Auditorium?
 WW Who's autobiography is entitled *The Spaces In Between*?
 TERMS What's the name of a cross with one arm longer than the other three?
 PT What was Mendelsohn's Einstein Tower built of?
- XIII. F & P Who said, "I'm going to keep doing boxes until I do a good one."?
 TE For whom was John Denver's song "What One Man Can Do" written?
 WW Who was Howard Roark's girlfriend?
 TERMS What is the swelling of a column called?
 PT What's taller, Chartres' north tower or its south?
- XIV. F & P Who designed the tents for the '72 Olympics?
 TE Who played the architect on "The Brady Bunch?"
 WW Who is Vincent Scully's book *The Shingle Style Today* dedicated to?
 TERMS What's higher, the abacus or the echinus?
 PT How long did the Crystal Palace stand?
- XV. F & P In what country is Alvar Aalto's library at Viipuri now located?
 TE Who played Stanford White in the movie "The Girl in the Red Velvet Swing?"
 WW Who did Tom Wolfe call "The Silver Prince?"
 TERMS What is Jugendstil better known as?
 PT Before the Empire State Building, what was the tallest building in the world?

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Blacksburg United Methodist Church

Rogers & Reynolds Architects, Inc.

Location: Blacksburg

Project Architect/Designer, Robert L. Rogers, AIA • Site Engineer/Surveyor, Anderson & Associates • Structural Engineer, Richard L. Williams • Mechanical/Electrical Engineer, Lawrence Perry & Associates • General Contractor, Thor, Incorporated • Photography, Robert L. Rogers, AIA.

PROGRAM

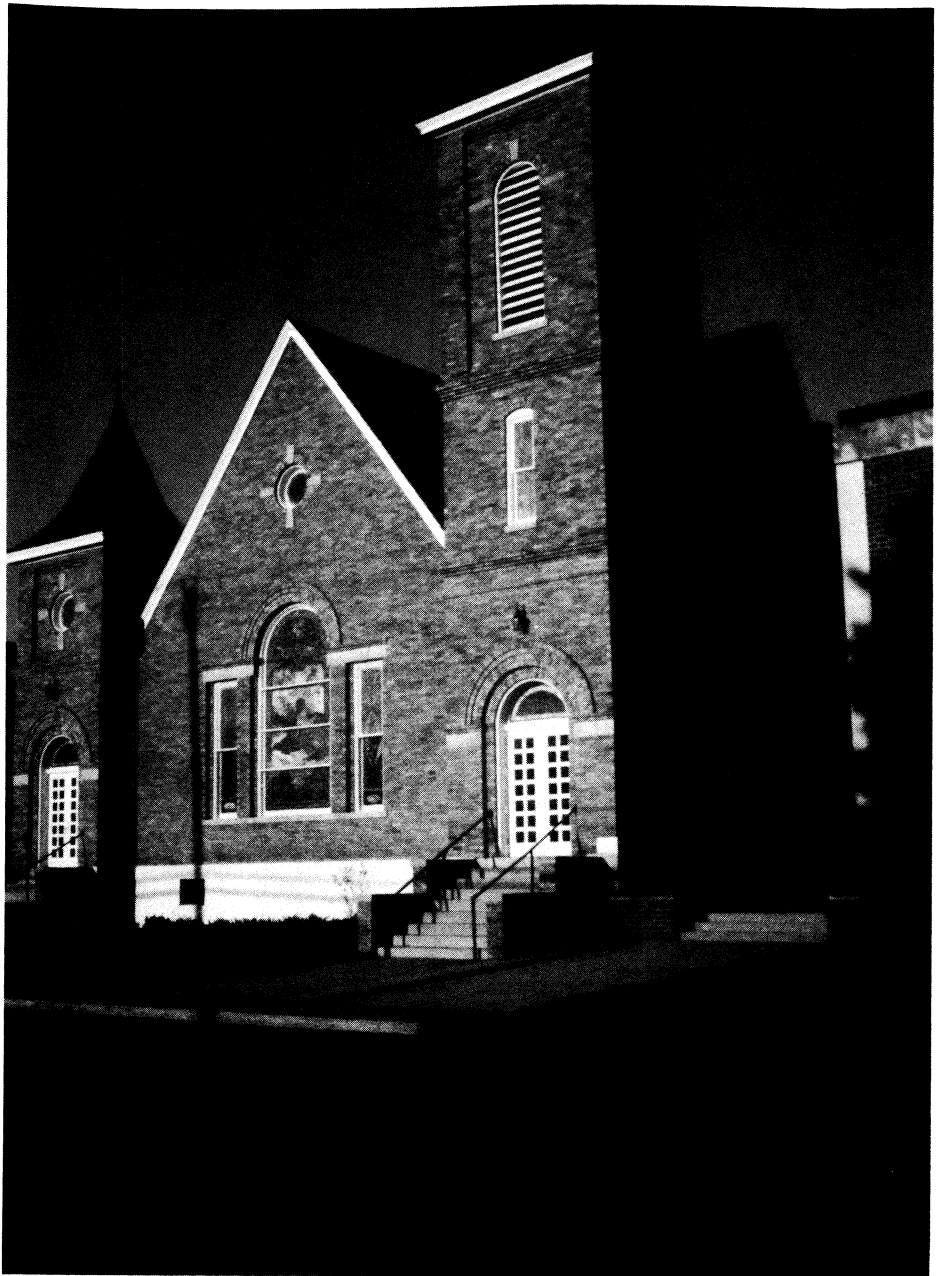
Renovation of a 78 year old church building for use as fellowship hall and classroom facility; addition of new office and circulation means to connect three different buildings on four different levels. The program included creation of a new rear entrance to the church and development of new parking and playground areas.

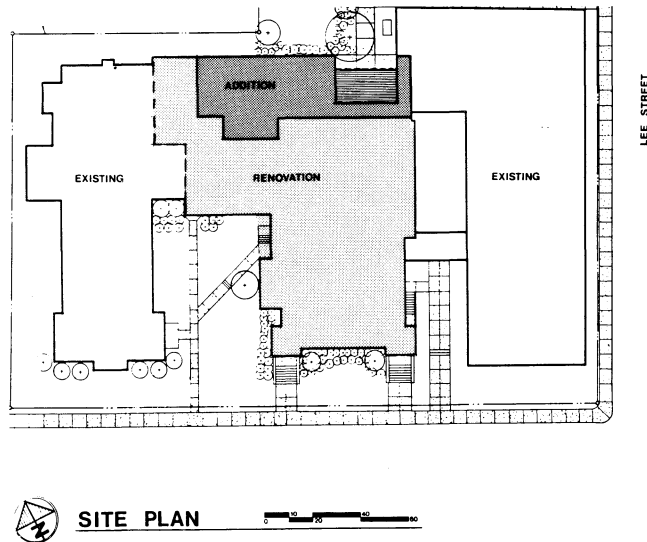
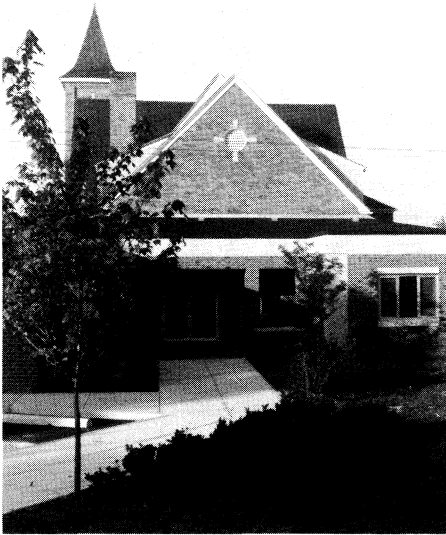
SOLUTION

At one time the oldest section of the church, known as the Whisner Building was scheduled to be demolished to provide for a new fellowship hall. Since the building had great historical significance to the church and it has some very positive design features (particularly the stained glass windows), the church decided to retain and renovate the building. A major goal of the renovation was to improve the acoustics of an octagonal-shaped room. A suspended ceiling was installed, with cross-shaped accent sections designed to feature two large stained glass windows. Special acoustical wall panels were also installed to improve the sound quality. The adjacent kitchen was substantially enlarged and new cabinet work was installed. On the exterior of the building, "Lexan" panels were installed to protect the stained glass, a new slate roof was installed, and brick and wood work was repaired. An old entrance to the basement was removed from the front of the building, and a new stairway created to provide interior access to the basement.

The building addition focused on meeting program needs for new offices and creating a new entrance and corridors to provide efficient and handicapped accessible circulation. Through means of a ramp and a wall-mounted movable platform capable of maneuvering around corners, four different levels with a vertical separation of seven feet were connected. A new lounge area was created next to an existing Sanctuary entrance, to provide for informal gathering space. Clerestory windows were added to provide indirect light to the corridor, lounge, and office area.

Materials for the addition are brick and block, with a membrane roof system over a steel bar joist/metal deck roof structure. Many of the aluminum windows incorporate stained glass panels removed as part of the Whisner Building





renovation. Other stained glass was incorporated in interior locations in new oak frames.

The basic goals in the design of the addition were to create a blend of the old and new, to respect the long traditions of this congregation, and to provide efficient and attractive spaces for their expanding programs. The project was completed in October of 1984.

Thor Incorporated of Roanoke was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

Other Roanoke firms were: Valley Steel Corp., reinforcing; Al-Steel Fabricators, steel sup-

plier/joists/roof deck & miscellaneous metal; I. N. McNeil Roofing & Sheet Metal, built-up roof, other roofing & roof insulation; Roanoke Construction Specialties, Inc., hardware supplier; HIVA of Roanoke, Inc., plaster contractor, gypsum board contractor, acoustical treatment & resilient tile; Valley Air Conditioning, plumbing/heating/ventilating/air conditioning contractor; and Newcomb Electric, electrical contractor.

Christiansburg firms were: Laurel Creek Nursery, landscaping materials & landscaping contractor; Stanley R. Cupp Paving Co., paving contractor; Home Insulation Co., wall insulation; DeHart Tile Co., ceramic tile; Service Contracting of Va., Inc., painting contractor & wall cover-

ing; and Commonwealth Equipment Co., equipment.

From Salem were: Thompson Masonry Contractor, Inc., masonry contractor; Old Virginia Brick Co., Inc., masonry manufacturer; McClung's, millwork & cabinets; Diamond Glass Corp., glass, glazing contractor, windows & storefront; and Whitt Carpet & Tile Service, Inc., carpet.

Others were: Midland Cut Stone Co., Indiana, stonework supplier; Engineering Sales Corp., Blountville, TN, metal doors & frames, & wood doors; Russell Church Studio, North Carolina, stained glass; and Garaventa, Ltd., Canada, stair lift.

'A Trifling Pursuance' The Answers

- | | | | | | | | | |
|------|----------------------------------|---|-------|----------------------------------|--|-------|----------------------------------|--|
| I. | F & P
TE
WW
TERMS
PT | Eliel
Norman Mailer
Six Dollars
2 x 4
Eliel Saarinen | VI. | F & P
TE
WW
TERMS
PT | Flatiron Building
Gary Cooper
Ayn Rand
Doric, Ionic, Corinthian
A mortuary | XI. | F & P
TE
WW
TERMS
PT | Oscar Niemeyer
"Same Old Lang Syne"
<i>The Tower and The Glass Inferno</i>
In Athens, Greece a portico; in Athens, Georgia a place to buy merchandise
Adolf Loos |
| II. | F & P
TE
WW
TERMS
PT | Moshe Safdie
A wife
Phillip Johnson
Atlantes
Chartres Cathedral | VII. | F & P
TE
WW
TERMS
PT | Maya Ying Lin
"The Invaders"
Frank Lloyd Wright
Council
The Empire State Building | XII. | F & P
TE
WW
TERMS
PT | Henry Hobson
Grand Old Opry
Nat Owings
Latin cross
Brick |
| III. | F & P
TE
WW
TERMS
PT | Ieoh Ming
Wilbur Post from "Mr. Ed"
Seven
Terracotta
Barcelona Chair | VIII. | F & P
TE
WW
TERMS
PT | Harry K. Thaw, a jealous husband
Elyse Keaton
<i>A History of Architecture on the Comparative Method</i> by Banister Fletcher
Sculpture
They all worked in the same office | XIII. | F & P
TE
WW
TERMS
PT | Gordon Bunshaft
R. Buckminster Fuller
Dominique Francon
Entasis
Its north |
| IV. | F & P
TE
WW
TERMS
PT | Fallingwater
Simon and Garfunkel
R. Buckminster Fuller
A sun screen
Frank Furness | IX. | F & P
TE
WW
TERMS
PT | Notre Dame du Haut
Henry Fonda
Julia Morgan
Ten
An airplane hit it | XIV. | F & P
TE
WW
TERMS
PT | Frei Otto
Robert Reed
Louis Kahn
Abacus
Eighty five years |
| V. | F & P
TE
WW
TERMS
PT | Albert Speer
World Trade Center
<i>AIA Journal</i>
Pendentive
Thomas Jefferson | X. | F & P
TE
WW
TERMS
PT | H. H. Richardson
Trylon and Perisphere
Paolo Soleri
Baldachino
Pantheon | XV. | F & P
TE
WW
TERMS
PT | USSR
Ray Milland
Walter Gropius
Art Nouveau
The Chrysler Building |

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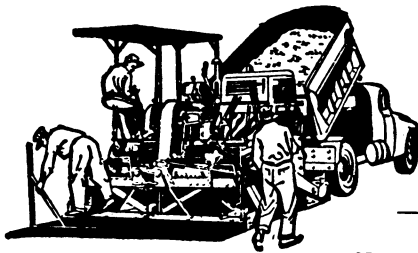
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National Bank of Blackburg—South Office

Rogers & Reynolds Architects, Inc.

Location: Blacksburg

Project Architect/Designer, Glenn P. Reynolds, AIA • Structural Engineer, Richard L. Williams • Mechanical/Electrical Engineer, Lawrence Perry & Associates • General Contractor, Graves Construction Co., Inc. • Photography, Robert L. Rogers, AIA.

PROGRAM

Creation of a bank office in an area with expanding commercial and medical-oriented facilities.

SITE

A former Exxon service station located at the southern edge of the Town of Blacksburg.

SOLUTION

The service station site proved to be an ideal location for a new branch for a four-office locally-owned bank. The size of the building coordinated with size requirements of the bank. Through results of a series of studies, the drive-up facilities were located behind the building. Controlled fill was installed to raise the grade for the drive-through lanes. Other site-related work focused on re-working paved areas to meet the bank's circulation requirements and to provide for more landscaping.

The primary challenge of the building renovation design was how to remove the service station image and create an image in keeping with the bank's progressive "hometown" character. Exterior work focused on enclosing the service station bays with brick, and a large area of wood siding for the bank's new logo. Brick planters were added to the front, to give depth, create a sense of entrance, and to provide a landscape softness to the facade. Locations were provided near the entrance for a night depository and future ATM machine.

Interior work focused on creating lobby and teller areas, an office and conference room, and employee lounge and work area. A steel prefabricated vault proved to be the best means of creating a secure area within the existing building. New mechanical and electrical systems, and all new surface finishes completed the renovation process.

The project was completed in September of 1984.

Graves Construction Company, Inc. of Blacksburg, was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

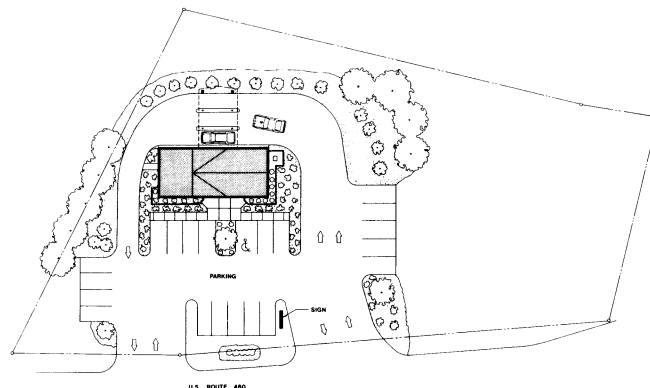
Other Blacksburg firms were: Abbey Excavating, excavating; J. M. Concrete Contractors, concrete contractor; S & M Contractor, sheet metal; Perdue Carpet & Tile, Inc., resilient tile & carpet; and Crowder Plumbing & Heating, plumbing contractor.

Christiansburg firms were: Greenspie Nursery, landscaping materials; Stanley R. Cupp Paving

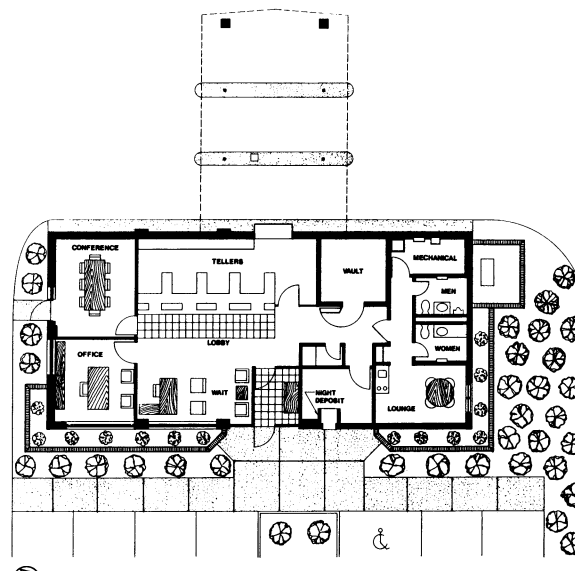
Co., paving contractor; Marshall Ready-Mix Co., concrete supplier; Precision Glass & Upholstery Service, storefront; Service Contracting of Va., Inc., plaster contractor & acoustical treatment; and DeHart Tile Co., ceramic tile.

From Roanoke were: Diebold, Inc., carpentry & equipment; Skyline Paint and Hardware, metal doors & frames & hardware supplier; Roanoke Construction Specialties, Inc., wood doors; Lee's Lines Ltd., specialties; Bud Weaver Heating & Air Conditioning, heating contractor; and Engleby Electric Co., Inc., electrical contractor.

Others were: Ben C. Johnston, New Castle, masonry contractor; Old Virginia Brick Co., Inc., Salem, masonry manufacturer; Bransoom-Dalton Roofing Co., Radford, roofing; Timber Truss Housing Systems, Inc., Salem, structural wood; and Contract Wall Coverings, Salem, painting contractor.



SITE PLAN



FLOOR PLAN

Hillsville Intermediate School

Echols-Sparger & Associates, Architects

Additions and Alterations • Location: Hillsville

Project Architect/Designer, William W. Huber
• Structural Engineer, Rayford B. Smith,
P.E. • Mechanical Engineer, Associated En-
gineering Consultants • Electrical Engineer,
Vreeland Associates Engineers • General
Contractor, J. H. Fralin & Son • Photography,
William W. Huber.

Originally built in 1936 as a high school, this facility was expanded in the early 1950s to add a cafeteria and additional classrooms. Additions were built in the 1970s to accommodate a growing enrollment and the intermediate school curriculum. This project renovated the older construction, converted the original auditorium to a combination music suite/auditorium, and expanded the kitchen facilities. Construction was completed in early 1983.

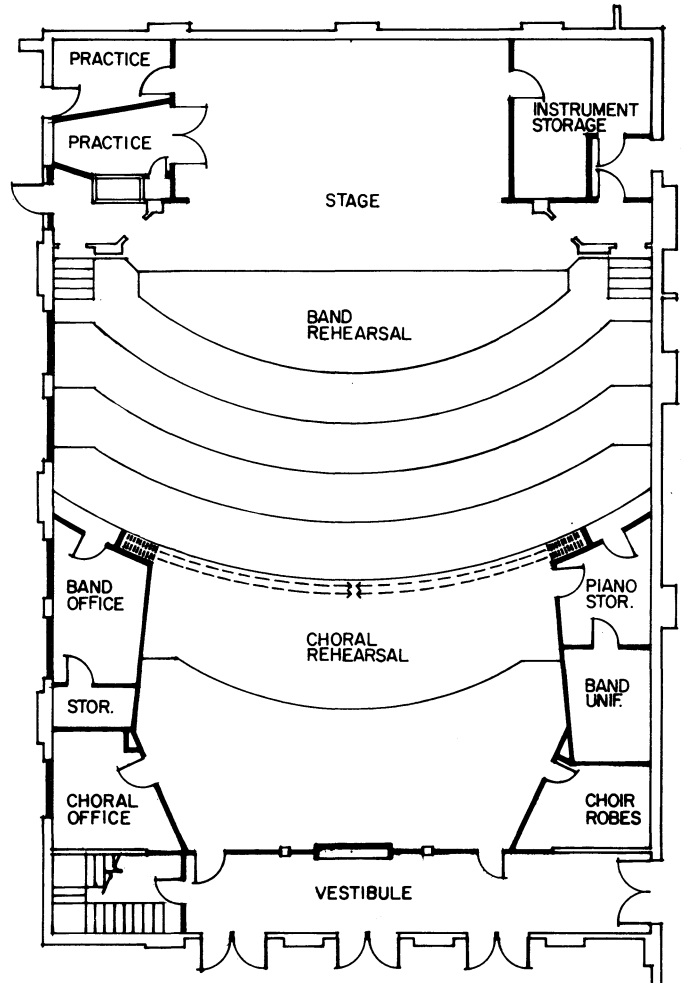
Improving the building's energy performance was a primary concern of the Carroll County School Board; to this end, steel sash were replaced with high performance single-hung windows and translucent insulated panels and wall and ceiling insulation were added. Lighting was converted from incandescent to fluorescent and the heating system was upgraded.

Previous additions had not provided space for the band and choral music programs. Since the auditorium would not seat the entire student body, assemblies were held in the gymnasium; therefore, conversion of the auditorium for the music curricula was determined to be the best use of available facilities. In order to retain a space in the school suitable for drama, the auditorium's sloping floor was stepped with concrete risers and the stage retained.

The existing kitchen had not been expanded since its construction 30 years ago. Dry food storage, dishwashing and preparation areas were extremely deficient in size; the walk-in freezer was located in a classroom in the nearby vocational building. A 1500 square foot addition corrects these space deficits and houses the walk-in freezer. A laundry, office, can wash and loading dock are also contained in the addition.

As part of the expansion of the kitchen, a passage was provided to connect the nearby vocational building to the main building. Two classrooms in the vocational building are now available for general use and the entire building is now accessible by an enclosed, barrier-free route.

The rich brick and cast stone detailing of the 1936 structure is one of the building's greatest assets; all improvements to the thermal performance



of the solid masonry walls were therefore, accomplished from the inside. The existing window openings, approximately eight feet high, were kept intact, with the top one-third of the opening being "glazed" with an insulated opaque panel.

The north elevation, built in the 1950s, is without ornament and has large window openings. These windows light the cafeteria and home economics suite. To optimize the daylighting desirable for these functions while minimizing infiltration and heat loss, a translucent fiberglass-reinforced plastic sandwich panel was used to fill these openings. Small hopper windows below the panels provide vision and warm-weather ventilation.

Interior finish work was partially determined by the scope of energy improvements. Exterior walls received extruded polystyrene insulation covered by a thin-coat plaster system. Ceilings were lowered to support new insulation on the second floor and new fluorescent lighting throughout.

Existing structural tile wainscot in the corridors was left intact. New terrazzo tile floors were installed, existing lockers painted and suspended acoustical tile ceilings installed to match those surfaces in the corridors of recent new construction.

Ornamental plasterwork in the auditorium was repaired and left exposed where possible. A smaller proscenium was framed inside the existing proscenium to permit additional use of the stage wings without destroying the detailing of the original construction. An existing colonnade which originally defined the rear of the auditorium now adds interest and texture to the new wall separating the choral music area from the lobby.

With careful scheduling, use of the school was maintained throughout the duration of the construction. Through planned expansion and adaptive re-use of old space, the Carroll County School Board now has a complete facility to accommodate the programs of a modern intermediate school.

J. H. Fralin & Son of Roanoke was general contractor and handled exca-

vating, foundations, concrete work, steel erection, carpentry and structural (glazed) tile.

SUBCONTRACTORS & SUPPLIERS

Leo's Exterminating Co., Bristol, TN, exterminating; Valley Steel Corp., Salem, reinforcing; F & M Construction Corp., Hillsville, concrete supplier; Brady Construction Co., Inc., Meadows of Dan, masonry contractor; Martinsville Concrete Products, Martinsville, Delta-Macon masonry supplier & Flamingo mortar supplier; Seager Waterproofing Co., Greensboro, NC, stonework contractor, waterproofing & caulking; H. M. White, Inc., Elizabethton, TN, steel supplier, Vulcraft steel joists, steel roof deck, miscellaneous metal & handrails; and Valley Roofing Corp., Roanoke, single ply roofing, roof insulation & sheet metal.

Also, Dow Chemical, USA, styrofoam wall & foundation insulation; South Roanoke Lumber Co., Roanoke, millwork & Algoma Hardwoods wood doors; New England Pacific Corp., Lincoln, RI, fiberglass; Trimble Co., Inc., Johnson City, TN, Metal Products, Inc., metal doors & frames; W. H. Stovall & Co., Inc., Richmond, EFCO, New England Pacific windows; Roanoke Construction Specialties, Inc., Roanoke, hardware supplier & Hough operable walls; and HIVA of Roanoke, Inc., Roanoke, USG plaster contractor, gypsum board contractor, Donn, Armstrong acoustical treatment & Armstrong resilient tile.

And, DeHart Tile Co., Inc., Christiansburg, American Olean ceramic tile & Fritz Tile terrazzo; Eastern Building Supply Co., Amelia, Stark structural (glazed) tile; ARC Tile, Inc., Johnson City, TN, Mohawk carpet; R. L. Dresser, Inc., Raleigh, NC, special flooring—stage; Service Contracting of Virginia, Inc., Christiansburg, painting contractor; Devoe Paints, Roanoke, paint manufacturer; Lee's Lines, Ltd., Roanoke, specialties; John G. Kolbe, Inc., Roanoke, kitchen equipment; Jack Owens Plumbing & Heating Co., Marion, plumbing/heating/ventilating contractor; Noland Co., Roanoke, Miller lighting fixtures supplier & G. E. electrical equipment supplier; R & M Electrical Co., Christiansburg, electrical contractor; and John N. Yauger & Co., Carolina Chalkboard chalk/tackboards.

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*Electrical Contractor for the
Pirate's Quay Shopping Center
Featured in this issue.*

Pirate's Quay Shopping Center

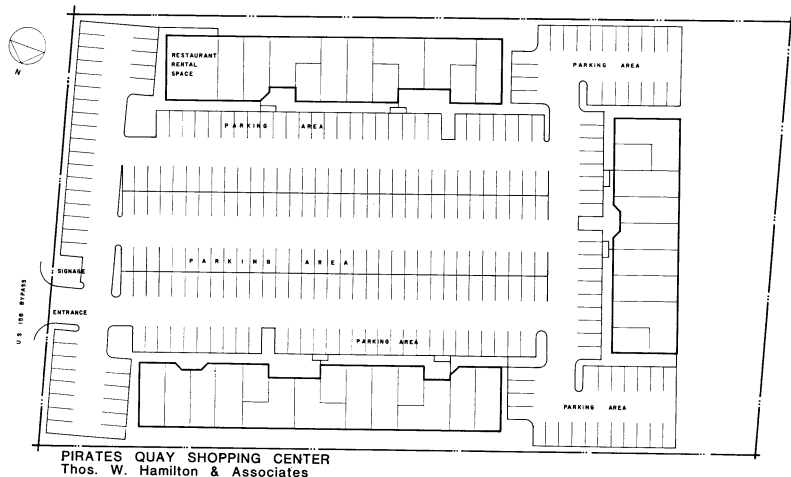
Thomas W. Hamilton & Associates—Architect

Location: Nags Head, NC

Project Architect/Designer, Michael A. Young
• Site Engineer/Surveyor, Langley-McDonald
• Structural Engineer, Dunbar, Milby, Williams
• General Contractor, Dare Associates/
Bo Taylor, Superintendent • Photography,
Huffman Studio.

Over the past decade, the Outer Banks of North Carolina have become a popular area for vacationing beachcombers. To accommodate the ever increasing number of tourists, there is unending construction on new cottages, time share condominiums, and hotels. There is also constant construction of recreation and entertainment facilities. Among the big attractions are the shopping centers.

The Pirates Quay Shopping Center is located in Nags Head, North Carolina. The shopping center provided 36,444 square feet of retail and restaurant rental space. Three separate buildings are





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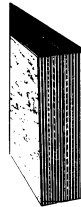
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each positioned so that the passer-by has a view of each front facade. The "Old Fishing Village" theme was used for the exterior facades.

The buildings are structured with wood stud bearing walls at the front and rear. The space is spanned with wood trusses. This type of construction allowed for unobstructed tenant spaces. It also made it possible to vary the sizes and configurations of the spaces as required by the tenant. The facades were made possible by use of wood trusses and conventional framing. This also provided a covered walk in front of each building.

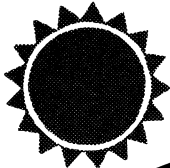
The Pirates Quay Shopping Center has been a success for the owners, Dare Associates. The restaurant has proven to be a good crowd draw both during the tourist season and in the off-season. The shopping center opened for its first season in the Spring of '84 with all but a few tenant spaces leased.

Owner, Dare Associates of Virginia Beach, acted as general contractor.

SUBCONTRACTORS & SUPPLIERS


North Carolina firms were: Central Garden Center & Nursery, Elizabeth City, landscaping contractor; Outer Banks Contracting, Kitty Hawk, paving contractor; H & H Concrete, Kill Devil Hills, concrete contractor; Sea Shores Insulation Co., Inc., Point Harbor, wall insulation; Sunport Builders, Kill Devil Hills, carpentry & windows; Truswood, Inc., Raleigh, structural wood; D. C. Hill Painting Contractor, Kitty Hawk, painting contractor (Benjamin Moore, Olympic); J. Edward Burch Sr. & Sons, Kill Devil Hills, plumbing/heating contractor; M.O.S. Electric, Kill Devil Hills, electrical contractor; and Makinson Construction Co., Inc., Kill Devil Hills, septic system & water supply.

And, from Virginia were: Richman Steel, Newport News, steel supplier; Sun Roofing Co., Inc., Portsmouth, roofing; and Norfolk Sash & Door Co., Norfolk, wood doors & hardware supplier.



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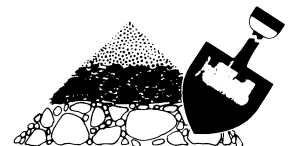


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Shell Building 'F'

Rancorn, Wildman and Krause—Architect

Location: Hampton

Project Architect/Designer, M. Stanley Krause, Jr. • Landscape Architect, H. Eugene Roberts • Interior Designer, Carole Wydur • Structural Engineer, DeYoung-Johnson Group, Inc. • Mechanical/Electrical Engineer, Mathew J. Thompson, III • General Contractor, Cochran Construction Co. • Photography, Rancorn, Wildman and Krause.

This is a 30,000 square feet speculative building developed to be available in the inventory of the Regional Redevelopment and Housing Authority of Hampton and Newport News, Virginia. The intent is to have a facility immediately available for industrial prospects interested in locating on the Lower Virginia Peninsula.

It was essential for this "shell" building to be flexible enough that it might adapt to the particular requirements of an unknown industrial operation or manufacturing process. Also, it was desired that it be perceived as being nearly "ready for occupancy."

The facility was planned with elevated floors to allow for truck-dock access on one side of the building, and a rail-siding on the other. The

sitework was completed with only as much parking as required by the zoning ordinance, with allowance for future expansion. Likewise, the building elements are situated to allow for doubling the size of the facility by lateral (or vertical) office expansion, and adding at the rear for additional manufacturing space. The site is wooded, and as many trees as possible were preserved.

Centrally located, minimum toilet facilities were provided for both the office and manufacturing spaces, and a wet-pipe sprinkler system throughout. To be an effective sales tool, all exposed surfaces, except the floors, were painted and a lay-in acoustical tile ceiling was installed in the office area. In addition, a central heating and ventilating system was provided to serve the manufacturing area, with a separate HVAC package for the offices. An appropriate amount of general area illumination was provided, as were skylights in each of the 40' x 40' high-bay areas.

There was a deliberate attempt to establish a contrast between the metal panels of the office (higher quality and finer finish) and those of the manufacturing area (standard industrial quality, paint finish). Reflective-type insulating glass in the offices contributed to both energy efficiency, and the desired aesthetic effects of

that area from which the public would receive their impression of the occupant.

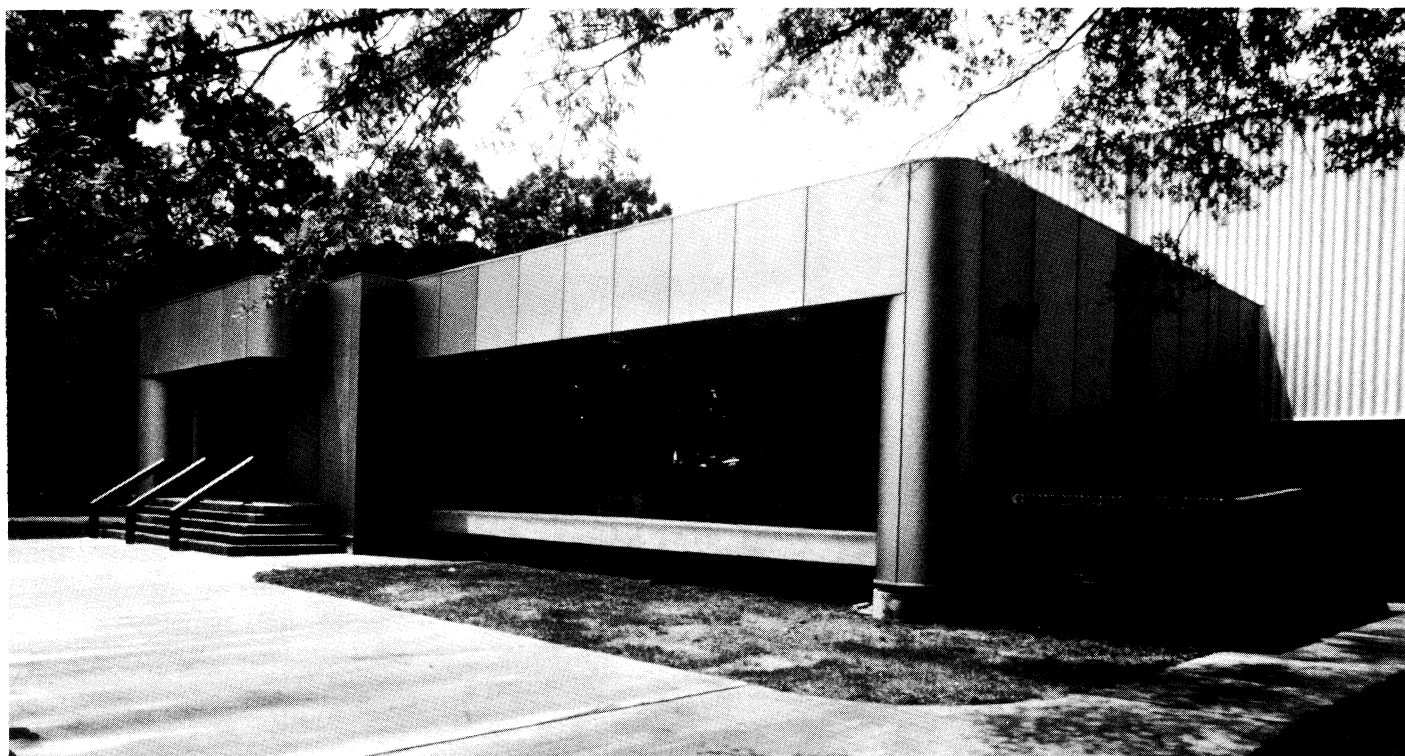
Cochran Construction Co. of Hampton was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

(Hampton firms unless noted)

Williams Paving Co., Inc., site work; Terminix Co., Newport News, termite control; Hudson Masonry Co., Inc., Virginia Beach, masonry; Virginia Steel, Inc., structural steel, miscellaneous metal & erection of joist & deck; Heath Roofing Co., roof, insulation & sheet metal, flashing, scuppers, downspouts & skylights; Herrin Bros. Erection Co., Portsmouth, caulking; Door Engineering Corp., Norfolk, toilet partitions & accessories, metal doors & frames & hardware; and Walker & Laberge Co., Inc., aluminum doors, frames & window wall system, glass & glazing.

Also, Virginia Door, Inc., Chesapeake, overhead doors; Able Systems, Inc., lath, stucco, metal studding, gypsum drywall & acoustical; The Tile Shop, Inc., ceramic tile & marble thresholds; Warwick Air Conditioning, Inc., mechanical, plumbing, sprinkler system, heating/ventilating/air conditioning; Swing Electrical Co., Inc., Newport News, electrical; Hall-Hodges Co., Inc., Norfolk, reinforcing steel; Virginia Engineering Sales Co., Richmond, joist & roof deck; and The Binkley Co., Ardmore, PA, metal siding panels.



FOR THE RECORD

Competition Announced for Architectural Students

Henry Hope Reed, President of Classical America, has announced the "First Classical America Competition" for a Classical Building. The competition, with \$5,000 in prizes, is open only to students of architecture.

Submission date is September 1, 1985. For information, write to Classical America, P. O. Box 821, Times Square Station, New York, NY 10108.

Johnson Succeeds Maize at Va. Roofing Corp.

Effective January 1, Robert W. Johnson has succeeded Samuel B. Maize, Jr. as president of Virginia Roofing Corporation, Alexandria.

In making the announcement, Mr. Maize said that Johnson's 17 years in the roofing industry have uniquely qualified him for his new position.

Johnson started with Virginia Roofing Corporation as an Estimator/Salesman and has progressively risen through the ranks. His accumulation of knowledge and experience, combined with his positive attitude, resulted in his having filled almost all of the management positions in the firm.

Hankins and Anderson Announces New V.P.

Hankins and Anderson, Inc., a Richmond based consulting engineering firm, is pleased to announce that Robert M. Lumpkin, P.E., has joined the firm as vice president in charge of the heating, ventilating, and air conditioning department.

Mr. Lumpkin was a former associate with Hankins and Anderson, Inc. in 1968. Prior to his recent return, Mr. Lumpkin served as principal engineer with Automatic Equipment Sales of Virginia, Baskerville & Son, and Wilkins, Watson & Fortner, Inc.

Bob Lumpkin is a member and past president of the Richmond Chapter of ASHRAE. He is a registered engineer and a graduate of the University of Miami. His design experience includes mechanical systems for industrial, institutional, commercial and government facilities.

Center for Development Studies Established at Virginia Tech

Virginia Tech's College of Architecture and Urban Studies (CAUS) has formed a Center for Development Studies to provide a focal point for university development-oriented activities.

The center will coordinate the organization of multidisciplinary research efforts and the integration of that research into graduate education.

It will focus on research aimed at developing countries and on such issues as economic development in rural areas of Virginia. Under its auspices, the college has already received a \$138,000 grant from the Agency for International Development to conduct an international conference on disaster mitigation planning for developing countries.

Good News . . . Federal Dollars Return Home

The next time you find yourself engaged in discussing the belabored subject of how much tax you are paying, consider the following good news: Last year the Federal Government distributed 55.5 million pounds of USDA donated foods in Virginia. The value of that donation exceeded \$46.5 million dollars. Those are Federal tax dollars that have returned to Virginia to supply quality foods to schools, institutions, elderly feeding programs, day care centers, summer camps and social service agencies. This represented a daily assisted feeding of 570,000 Virginians.

Here's more good news: In supplying USDA donated foods to needy Virginians, the Federal Government purchased \$22.4 million dollars worth of food products from Virginia firms. In

The center will be the secretariat for the American section of the International Panel for Risk Reduction in Hazardous Areas, an organization of architects, planners and engineers involved in research and implementation of natural hazard mitigation projects.

Intended to facilitate cross-discipline, problem-focused research, the center will provide the point of contact for establishing institutional relations with technical universities in developing countries. It will draw upon faculty and graduate students at Virginia Tech for expertise.

Frederick Krimgold, CAUS associate dean for research and extension, will serve as the center's director.

other words, almost half of the tax dollars used to feed Virginia's school children and needy were spent buying Virginia products. Even more encouraging is the amount of Virginia commodities being purchased for distribution in 1984-85. Almost \$3.5 million dollars in turkey products has already been purchased during the first three months of the new fiscal year. Other popular Virginia food commodities being purchased by the Federal Government are: apple products, canned tomatoes, flour and peanut butter.

So, feel good Virginians; not only are your tax dollars providing a much needed service supplying needy individuals with nutritious meals, those same Federal tax dollars are indirectly generating jobs and boosting the economy of Virginia.

Ajax Company, Incorporated Joins International Association

The Marble Institute of America, an international trade promotional association, has accepted the Ajax Company, Incorporated, of Norfolk, a fabricator and installer of dimensional stone, into membership. Doyl M. Cowger will be the MIA Representative.

The Marble Institute of America was formed in 1944 to encourage the installation of dimensional stone marble, granite, onyx, travertine

and slate. Although the greatest number of its 375 members are located in North America, the MIA is also represented in Europe, Asia, Australia, South America, Africa and the Philippines.

The Institute maintains an office at 33505 State St., Farmington, Michigan, 48024, to answer inquiries from architects, designers and the general public.

Hudgins is New President of AGC/Va.

Lester L. Hudgins, Jr., President of Hudgins Construction Co., Inc., Newport News, was elected 1985 President of the Associated General Contractors of Virginia. The elections were announced January 26, during the group's annual convention at The Homestead, Hot Springs, Va., (Jan. 24-27).

OTHER ELECTED OFFICERS

- 1st Vice President—Robert E. Kersey, President, Commercial Builders, Inc., Norfolk.
- 2nd Vice President—Henry Taylor, Jr., President, Taylor & Parrish, Inc., Richmond.
- Secretary—Roy E. Spears, Jr., President, Shirley Construction Co., Portsmouth.
- Treasurer—N. David Kjellstrom, President, Kjellstrom and Lee, Inc., Richmond.

DIRECTORS

Elected for a first three-year term: Jerry P. Leonard, Executive Vice President, Armstrong Construction Co., Inc., Kingsport, TN; James J. Roberts, President, Kenbridge Construction Co., Inc., Kenbridge; and Barry W. Baird, Executive Vice President, Avis Construction Co., Inc., Roanoke.

Elected for a second three-year term: John B. Wimer, President, Smith Wimer, Inc., Lynchburg.

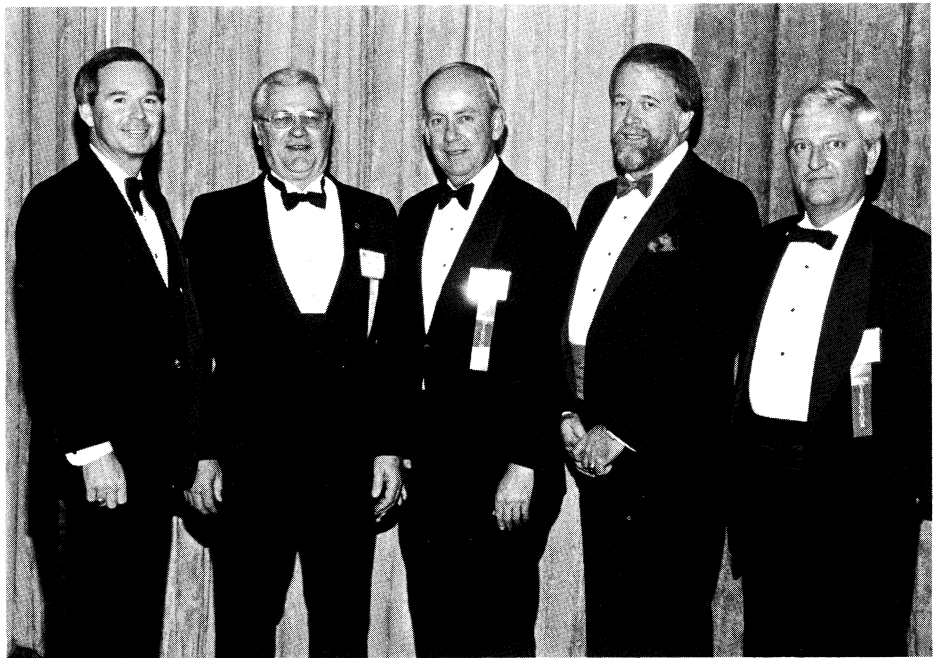
Elected for a one-year term: Peter V. Henderson, President, Henderson, Inc., Williamsburg.

ASSOCIATE DIVISION

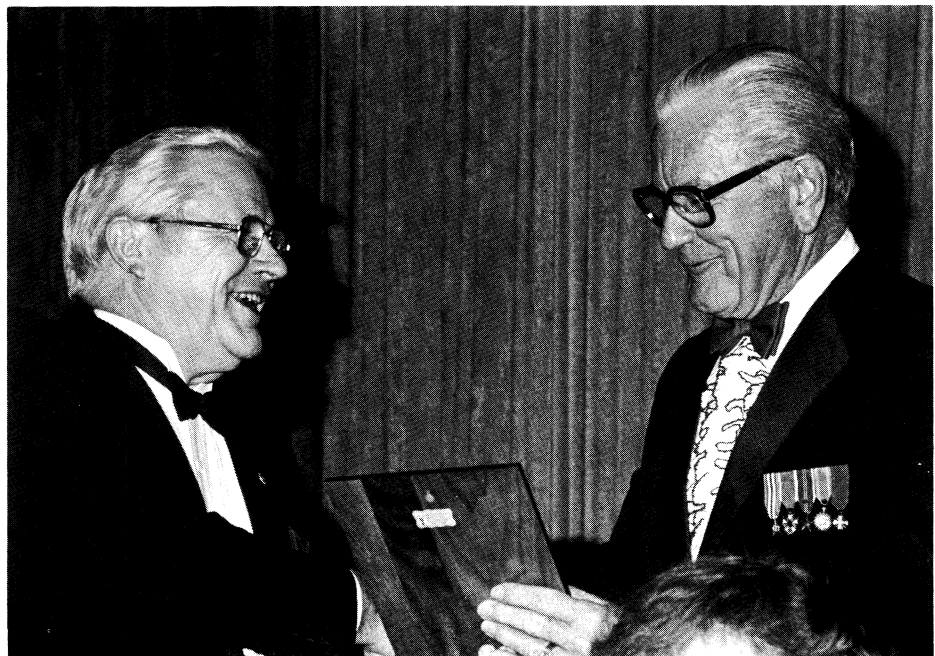
Elected for the Associate Division of the Associated General Contractors of Virginia are: Chairman—Howard E. Gill, Jr., President, Hampton Roads Insurance, Virginia Beach; and Vice Chairman—Murrell Nuckols, Manager/Estimating, The Howard P. Foley Co., Richmond.

Elected as Associate Directors: For a 2nd term—E. M. Martin, Jr., President, E. M. Martin, Inc., Charlottesville; and for a 1st term—William H. Forrest, Jr., President, Pompei Tile, Inc., Newport News; Daniel W. Marshall, III, Vice President, Danville Concrete Products Co., Inc., Danville; and Robert T. DuPuis, Owner, P & T Products, Inc., Wytheville.

The Associated General Contractors of Virginia, founded in 1924, is a trade association of nearly 200 General Contractor firms and approximately 500 Associate Member firms, which are subcontractors, law firms, insurance companies and others which serve the contracting industry. AGC of Virginia is an autonomous branch of the Associated General Contractors of America, composed of branches in all 50 states and Puerto Rico.



ASSOCIATED GENERAL CONTRACTORS OF VIRGINIA 1985 OFFICERS—Shown here following their installation as officers at a banquet on January 26, are: (left to right) 1985 President, Lester L. Hudgins, Jr.; 1st Vice President, Robert E. Kersey; 2nd Vice President, Henry Taylor, Jr.; Secretary, Roy E. Spears, Jr.; and Associate Division Chairman Howard E. Gill, Jr. (N. David Kjellstrom, AGC/Va. 1985 Treasurer, was not present for the photograph.)



AGC/VA SPECIAL RECOGNITION AWARD PRESENTED AT CONVENTION—Robert E. Kersey, 1st Vice President of the AGC/Va., presents their Special Recognition Award to Harry L. Yerby in recognition of his substantial contributions to the construction industry. Yerby is retiring from his position as Executive Director of the Builders and Contractors Exchange of Norfolk.

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Search Ends, New Executive Vice President Found

Bruce Scott, President, Scott-Long Construction, Inc. announced, February 10, that the company's search for its first Executive Vice President has ended successfully in the person of W. Robert Little.

Before joining Scott-Long, Little was Vice President of The Landmarks Group, an Atlanta based developer of urban and suburban office buildings with projects throughout the southeastern states.

Little is well known to his peers. He publishes extensively and is frequently called upon as a public speaker both to and for the construction industry. He has written and/or spoken before the Construction Specification Institute, American Society For Testing and Materials, American Society for Concrete Construction, as well as the Associated Building Contractors and Associated General Contractors.

He is a member and an arbitrator in construction disputes for the American Arbitration Association and has been a member of American Concrete Institute for the past 25 years. In addition, he has membership in the American Institute of Constructors, American National Standards Institute and the American Society For Testing and Materials.

From 1976 to 1980, Little was Director of Research and Development for J. W. Bateson Com-



W. Robert Little

pany of Dallas. For eight years before that, he was president of his own construction company, Major Construction Corporation in Gainesville, Florida.

Little is a graduate of Columbia University with a B.S. in Civil Engineering.



H. Kelleher Wood

H. K. Wood Joins E. T. Gresham Co., Inc.

H. Kelleher Wood, 41, has recently joined E. T. Gresham Company, Inc., as Assistant Manager of the Construction Division.

A 1968 graduate of the University of Virginia and a holder of an MBA degree from the Wharton School of Finance and Management, Wood was formerly associated with MMM Design Group in Norfolk. He is a registered professional engineer with extensive experience in heavy construction.

Wood is President-elect of the Norfolk branch, American Society of Civil Engineers and also serves as a Director of the Engineers Club of Hampton Roads.

E. T. Gresham Company, Inc. specializes in commercial and industrial construction, rigging and mobile crane service, principally in the Tidewater areas of Virginia and North Carolina.

Builders' Exchange of Richmond Names 1985 Officers

At the Annual Meeting of the Builder's Exchange of Richmond, Va., Inc., on February 12, 1985, the following were elected to serve a one year term of office:

- R. W. Nash, W. W. Nash & Sons, Inc.—President
- William A. Manson, Manson & Utley, Inc.—1st Vice President
- John K. Perrin, J. Kennon Perrin Construction Co., Inc.—2nd Vice President
- George F. Albright—Executive Secretary/Treasurer
- Judith A. Grigg—Assistant Secretary

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H. G. Beckstoffer, Jr.

Saunders Oil Co. Names New President

Henry G. Beckstoffer, Jr. has recently been elected President of Saunders Oil Company, Inc.

Mr. Beckstoffer joined Saunders Oil Company in 1963, and has for the past three years been serving as Executive Vice President.



Landmark Rail Station Renovation Utilizes Owens/Corning Energy Miser® System

Main Street Associates, developers of the new Marketplace at Main Street Station decided to preserve the original metal-work train-shed at the old Richmond, Va., train station as part of its project to convert the facility to an elegant shopping and restaurant complex.

Since the building's trusses are a major element of the old-fashioned railroad-station look, they are being left exposed; the Energy Miser® system is being used to insulate the shed since it can be installed below the roof's new purlins and above the trusses.

DOUBLE DUTY

Appearance and thermal performance were prime considerations in selection of insulation for the Marketplace project. Workmen can pull the laminated Energy Miser® system evenly over rollers, creating a taut, light-reflective ceiling surface that contrasts dramatically with the historic trusses.

The system also preserves thermal effectiveness frequently lost when other insulations are compressed between purlins, creating unattractive bulges that can cause splits in the seams of metal panels.

Advisory Board Members And Staff Changes at Hudgins Construction

Two members have been added to the advisory board of Hudgins Construction Co., Inc., two executive staff members have been promoted, and Lester L. Hudgins, Jr., president of the Newport News firm, has appointed a Controller and an Assistant to the President.

Spurgeon P. Toney, recently retired President of Warwick Plumbing and Heating of Newport News and A. E. "Lanny" Harer, CMC, a Senior Consultant with Fails Management Institute, Raleigh, North Carolina, are the two new advisory board members.

Toney is a past President of both the Virginia Association of Contractors and the Sub-Contractors Association of Virginia and a past Chairman of the Joint Apprenticeship School of Plumber and Pipefitters. Harer is a regional innovator in adapting professional management techniques to the construction industry and receives over 40 international speaking invitations annually. He has also published a series of articles on the subject in *The Contractor's Digest*.

Hugh H. Riley, formerly Vice President of Hudgins Construction Co., Inc., has been appointed Executive Vice President. Ralph E. "Skip" Hughes has been appointed Vice President from Assistant Vice President.

Riley joined the firm in 1976 and was placed in the management training program. He is an

engineering graduate of the University of Virginia.

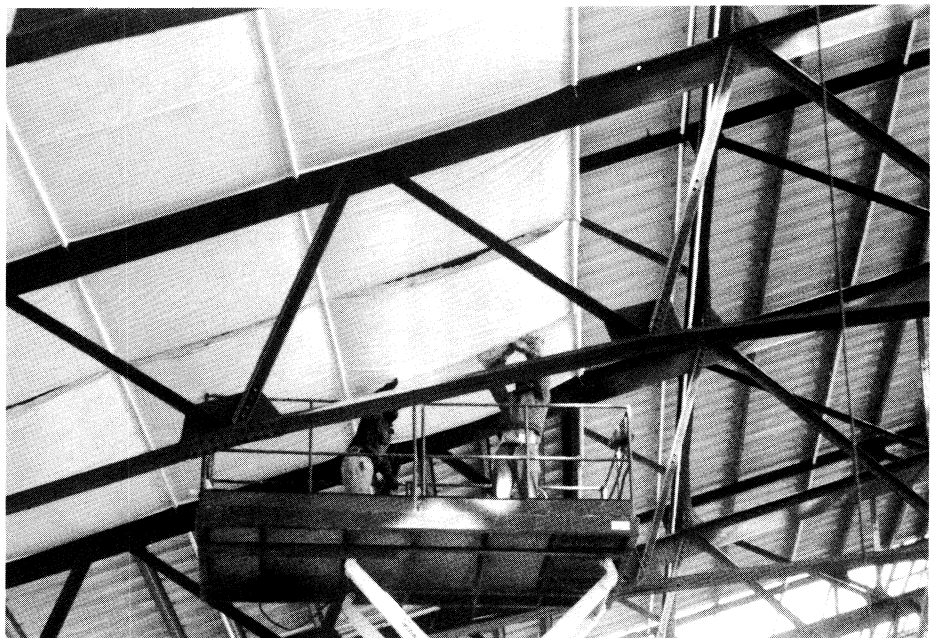
Hughes began working for Hudgins Construction Co., Inc. in 1973 as an assistant superintendent.

Teresa D. Downing has been appointed Controller of the 14 year old firm, and Ethelanna S. Hogge has been named Assistant to the President.

Downing, a certified public accountant, was previously employed at Hall, Cotman, Garrison, and Roseberry. She is also a former treasurer of Peninsula Women's Network, former adjunct faculty member of Thomas Nelson Community College, and is presently a member of United Way Budget Committee, the American Institute of CPAs, and Virginia Institute of CPAs. Downing is a graduate of the University of Maryland and a native of Aberdeen, Maryland.

Hogge has been with Hudgins Construction Co., Inc., since November, 1974. In October of 1980, she was appointed Corporate Secretary. Mrs. Hogge handles special projects and/or assignments delegated by President Lester L. Hudgins, Jr., including day to day management of the Corporation's land developments.

Hogge, a native of Ashland, Maine, is also a past president of the Greater Hampton-Newport News Chapter 204 of the National Association of Women in Construction.



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