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ON OUR COVER is an interior view of Lakewood Manor. The Rich­
mond facility was designed by Sherertz, Franklin, Crawford,
Shaffner of Roanoke and is featured on page 13 of this issue.
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Your Historic Landmark

With the cost of building being what it is these days, it is no wonder that more and more people are considering adaptive re-use, renovation or conservation of an existing structure. This column has dealt with the many patriotic and economic reasons for such undertakings. An area not mentioned in that earlier discussion is preservation of an "historic landmark."

Let us assume you own a very old building. It's about time to fix up the old wreck you treasure so much, but heaven knows it is going to be an ambitious undertaking. The building is a hundred years old, all the windows leak air and the old floorboards are becoming dangerous. Suddenly, that better idea light comes on: what if your antique is actually a valued "historic landmark"? What if you can get it certified and get the preservationists and conservationists to stand guard over your property? It is certainly worth looking into.

You will be making a great contribution to the historical and social welfare value of the area. You will be protecting and enhancing part of our history, our heritage. And you will be highlighting an aspect of our culture while enriching the environment. Aside from these noble reasons to consider that preservation project, you may stand to gain considerable tax benefits.

The 1976 Tax Reform Act provides both incentives, such as accelerated depreciation for the cost of preservation work, and deterrents to prevent the demolition of historic structures. There are also many local, state, and other special tax deductions which may apply. In addition, buildings which make the National Register of Historic Places may also qualify for grants-in-aid assistance for the preservation work.

So, why not rush right out and get your architect to get the building certified and start your preservation project? Because there are many factors to be considered first, none of which should be considered a deterrent, for the value of preserved structures and sites increases as the numbers shrink. The fact remains, however, that there are many decisions to be made before the scaffolding is erected.

First of all, "preservation" is a catch-all word which describes a variety of specialized tasks. What you must really determine is whether you want your structure preserved, restored, reconstructed, adapted, rehabilitated or recycled. While these terms are often used interchangeably, their definitions have subtle differences which can have serious consequences for your project. Therefore, step one is to decide which service or combination of services you want performed on your building. Having made that decision, you have begun to define the team of professionals who will be needed for your preservation project. Obviously, the different functions performed during a preservation project require different types of specialized knowledge. Since you are presumably dealing with valuable old materials and techniques, just any modern builder would not necessarily be familiar with the required procedures.

You will probably want to start with an architect, either your own favorite or one you know has dealt in preservation activities. Beyond that, you may require the services of an historical or preservation architect, a restoration contractor for advice and cost estimates, an architectural conservator, an historian, an archaeologist, any one of several engineers or a landscape architect. There may also be other consultants from several fields whose services are required, and your architect can suggest which are needed and help coordinate the team.

Before any of these people can begin to work, however, there are certain other tasks you will have to complete with your architect. You will have to perform a preliminary analysis and evaluation to determine exactly what you have and what condition it is in. You will also have to decide which preservation function best suits your needs and what you want the structure for when it is finished. This decision can have serious ramifications for your tax considerations. Then there will be numerous requirements and regulations to be met before your plans can even be considered. These can vary from merely registering your plans to having local boards approve every facet of a proposed preservation project. Again, your architect will know what is required.

Other tasks of crucial importance (and this is where your chosen team of professionals can be very useful) cover such areas as: graphic and photographic documentation; historic and archaeological research; architectural and engineering investigation of original materials; application for inclusion in inventories of historic places; and the standard services performed for many architectur-
al projects, such as design drawing, engineering documents, specification outline, cost estimate, construction documents, approval forms, and contract administration. While very little of this comes for nothing, it is not all astronomically expensive, either. The costs vary with the nature, quality, location, and scope of the project. Specialists and consultants obviously cost more than average builders, but their services are essential for most preservation projects. On most historic preservation work, fees are computed on an hourly or per diem basis, but they may be negotiated as a fixed fee or as a percentage of the construction costs. This is another point for discussion with your coordinating architect.

Having considered the foregoing brief outline of what is involved in a preservation project, do you still want to live in a landmark? Of course you do. In this case it just requires a little more planning and coordination than an ordinary remodeling, but the aesthetic, economic, and cultural rewards can be greater, too.

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The 1980 William C. Noland Award was conferred on William Marshall, Jr. FAIA, in ceremonies at the Virginia Society, AIA annual meeting in Blacksburg on October 3, 1980.

The William C. Noland Award is the highest honor the Virginia Society of the American Institute of Architects can bestow.

The Award was established in 1967 by the Executive Committee of the Virginia Chapter to honor the memory of William C. Noland, FAIA, of Richmond, who was one of the founders of the Chapter, served as the second Chapter President, and was its first member to be elevated to the College of Fellows.

The Award is in the form of a bronze medal and a certificate, and is given:
1. In recognition of the achievement of architectural excellence of a specific building or group of buildings, or
2. For excellence in architectural literature or educational service, or
3. For significant contribution to the advancement of the architectural profession, or
4. For outstanding public service.

Not more than one award is given in any one year, and it is presented at an appropriate ceremony during an annual meeting of the Virginia Society. Only Corporate Members of the Society, past or present, may receive the award.

William "Chick" Marshall has provided leadership and served with distinction at every level of the architectural profession. He was President of the AIA Student Chapter at the University of Virginia in 1948-49, the year in which he graduated with a B.S. in Architecture. Since that time he has served as President of the Tidewater Section (1964-65), President of the Virginia Chapter (1969), and President of the National American Institute of Architects (1975). He was elected a Fellow of the AIA in 1972.

Nobody rises to those levels of distinction without extensive service along the way. Among the capacities in which he has served the profession, too numerous to catalog here, he has served as chairman or member of various government affairs committees and urban design committees, as a Trustee of the AIA Research Corporation, and as a member of the AIA...
committees to Norfolk State College. Since 1974 the national AIA Art Collection Committee, and McMillan - Architects. Consulting Engineers, and Planners. Chick Marshall holds NCARB registration in addition to Virginia and seven other states. The firm has its Home Office in Norfolk with additional offices in Washington, D.C., Athens, Greece, Frankfurt, Germany; Houston, Texas; and Dammam, Saudi Arabia. Current projects of the firm include Design of the Saudi Arabian Military Academy, Design Development of a New City for 100,000 people in Libya, five New Communities for government and private clients in the Middle East, "Old Post Office" Renovation in Washington, D.C., Smithsonian Institution Rehabilitation Program in Washington, a Senior High School in Virginia Beach, and apartment, office, hotel and shopping complexes in Egypt.

The Virginia Society of the American Institute of Architects takes great pleasure in presenting the William C. Noland Award to such a distinguished member, William Marshall, Jr., FAIA.

The new hardbound American Architecture 1980, available since mid-August, includes editorial content and photographs—90 percent in color—from the mid-May issue of the award-winning AIA Journal. The Institute's monthly magazine, circulated to more than 40,000 architectural offices and other subscribers, has won top awards for "excellence in association communications and publications" from the American Society of Association Executives for the past two years.

The Journal's review brings together—for the first time—a representative sampling of recent buildings of all types between a single set of covers; together with observations of prominent architects, critics and historians in architectural design.

The American architecture annual spotlights nine innovative designs—some large projects and some small ones, by both large and small architectural firms across the nation. Featured are Richard Meier's Athenaeum, New Harmony, Ind.; the Loachapoka (Ala.) United Methodist Church by Nicholas D. Davis, AIA, Auburn, Ala.; Roche/Dinkeloo Associates' Helen Bonfils Theater complex, Denver; the 1980 Honor Award-winning Indiana Bell Telephone Switching Center, Columbus, Ind., by Caudill Rowlett Scott; Houston; Fort Lauderdale's U.S. Courthouse and Office Building by William Morgan, FAIA, Jacksonville; Western Life Insurance Headquarters, Woodbury, Minn., by Ellerbe Associates; the residence of (and by) Frank O. Gehry, FAIA, in Santa Monica, Calif., another 1980 Honor Award winner; architect Charles Sieger's modular house in Miami, and Pei's Kennedy Library.

In addition, the review highlights the rich and varied responses of a dozen leading U.S. architects to the question: "Where is architecture heading as the new decade begins?" It also includes an article by Journal Editor Donald Canty on regionalism, replicas and multi-chrome. Rounding out the comprehensive review is a colorful photo report of the 1980 AIA Honor Awards.

Copies are available from AIA publications marketing, 1735 New York Ave., N.W., Washing­ton, D.C. 20006 ($19.95 nonmembers; $16 members). Checks, payable to AIA, must accompany each order (#2M725).
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Lakewood Manor
Phases I and II, Richmond
Sherertz, Franklin, Crawford, Shaffner—Architect

Lakewood Manor, recipient of an AIA Honor Award, was developed as a retirement community for those in pursuit of a peaceful environment during the latter years of their life. Utilizing a campus-style plan, Lakewood Manor encourages social interaction among the residents and provides a setting for a physically active life style. The building layout is a non-institutional setting which permits the amenities of the naturally beautiful site to be retained. The campus plan was achieved by incorporating five, three-story residential buildings, each containing 59 apartments, lounges, and other support facilities. An Activity Center, consisting of a multi-purpose room, lounges, dining facilities, offices and other support areas, provides a maximum of opportunities for recreational and social activities.

The master plan provides for complete and orderly site development to include any desired expansion. Pedestrian and vehicular separation is achieved by use of a circumferential drive with buildings located inside the loop drive and interconnected with covered walkways. These walkways are enclosed on one side with glass and provide adequate weather protection for the residents. A network of varying paths provides the residents with walking routes that encourage exercise through mobility.

Interior spaces were created with great sensitivity for the residents through the use of smooth flowing spaces to allow easy access to all...
areas. These flowing spaces are enhanced with features such as a solarium and built-in planters and seating. The use of natural materials, such as wood and brick, further aids in providing an atmosphere of comfort for the residents. Nursing supervision for those who require continuous care and assistance is provided in the Health Care Center. The nursing care unit includes a Clinic, Physical Therapy Department and Pharmacy conveniently located for use by residents and patients in the Health Care Center.

Several different structural systems were employed at this project. The structural system for the Residential Units consist of lightweight structural concrete on permanent metal forms supported by open-web steel joists bearing on masonry walls. The roofs are framed with timber trusses. The Activities Center and Maintenance Center both consist of slabs-on-grade with a timber truss roof system. Portions of the Activity Center roof are framed with exposed glue-laminated beams and trusses. The Health Care Center consists of slabs-on-grade with a structural steel roof system. The foundation system for all areas is composed of reinforced concrete spread footings.

R. E. Lee & Son, Inc. of Charlottesville was general contractor for both phases and handled concrete work, steel erection, carpentry, damp proofing and drywall installation.

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Subcontractors & Suppliers
Phase II
Activity, Maintenance & Health Care Facilities
(Richmond firms unless noted)


Also, American Steel Products Corp., Woodbridge, hollow metal doors & frames; TMS Builders Supply, prefabricated wood windows; Plesants Hardware, finish hardware; O'Ferrall, Inc., resilient flooring & acoustical treatment; Gates Building Specialties, Roanoke, kitchen unit; Key Fixture & Equipment, Inc., Lynchburg, food service equipment; Paris Shade Shoppe, Inc., curtain tracks; Worsham Sprinkler Co., Inc., sprinkler system; Catlett-Johnson Corp., mechanical contractor; Jim Staley, corner guards; Powers & Anderson, Inc., Richmond, patient charting system; Mahone, Inc., Reanoke, curtain cubicle, metal flagpole & dock bumpers; Kaiozle Corp., Manchester, NH, translucent roof roof; Dynaflair Corp., Melville, NY, sliding grilles; John J. Bagley, Richmond, letter boxes; and Louver Drape, Inc., Baltimore, MD, vertical blinds.
Fire Station No. 10
Newport News
Forrest Coile and Associates—Architect/Engineer

Fire Station No. 10, designed and constructed in Newport News, is located nearly in the center of this long, narrow peninsula city. The site is highly visible along one of the principal north-south thoroughfares, Warwick Boulevard. Consequently, the building had to present an attractive appearance while it met all of the functional needs of a working fire station.

The facility is a single-story structure which includes the Newport News Fire Chief's offices as well as a four-vehicle apparatus room, dormitories and day room, a hose tower, and the Battalion Chief's dispatch center. It was designed to provide future accommodations for women firefighters. In addition, this station includes spaces to house the Newport News Fire Prevention Bureau.

The exterior of Fire Station No. 10 was designed for a maximum interplay of light and shadow within the context of a relatively simple structure. This effect was achieved by using offsetting walls on a mass scale and in architectural detailing, allowing shadows to form and shift with the sun's movement.

Grey brick was used in order to complement the design and color of the adjacent Newport New School Administration Building. Fire engine red exterior doors contrast with the masonry. Bronzed aluminum door and window frames and stark white trim complete the color accents.

Various methods of hose-drying were considered for this station. Incorporation of a hose tower was determined to be the most effective method, particularly since this system adds to the life of the hoses and is usable throughout the year. Further, with the roof characterized by three horizontal levels, the hose tower acts as a design element projecting upward and providing vertical relief.

Energy conservation was a principal consideration of the design. Insulated cavity wall construction was used as were double-glazed windows. Windows include operable sash to permit outside air to be used as an air conditioning medium as far into the summer as possible.

Hudgins Construction Co., Inc. of Newport News was general contractor and handled excavating, sodding, seeding, etc., foundations, concrete work, carpentry and wood doors. The owner handled landscaping.

Subcontractors & Suppliers
From Newport News were: Benson-Phillips Co., Inc., mortar; Kitchen Center, millwork; Heath Roofing Co., Inc., built-up roof & roof insulation; E. J. Puma & Associates, ceramic tile; Noland

(Continued on page 52)
Kilmer MH/MR Center
Vienna
Lynwood E. Brown, AIA & Associates, Inc.—Architect

Associated Architect, Donald R. Greenwood, Bushey-Burrey, Architects/Engineers • Landscape Architect, Lynwood E. Brown, AIA & Assoc., Inc. • Mechanical Engineer, Goodwin H. Taylor, Ltd. • Structural Engineer, Bushey-Burrey, Architects/Engineers • General Contractor, Glen Construction Co., Inc. • Photography, Lynwood E. Brown, AIA & Assoc., Inc.

Until 1974 Fairfax County did not admit mentally or physically handicapped children into its school system. For over twenty years resourceful parents ran a cooperative school for their handicapped children.

Kilmer Center is a front runner for the new type of education the county is providing for its handicapped young people. The Center was opened in September of 1978.

The goal of the staff is to increase each student's ability to function independently through individualized instruction in self-care, motor development, functional academics, communication, recreation, pre-vocational and home living activities.

Designed by the office of Lynwood Brown Associates, formerly of Bushey-Burrey, the architectural firms in Falls Church, the building is nestled in the rear of the Joyce Kilmer Intermediate School near the Dunn Loring Fire Department.

Tom Hanton of the Fairfax County School Construction Department was the project manager. He noted that the selection process for the architect was unique in that it was a "design/build" competition. A number of teams of architects and builders submitted proposals to the school board for a facility which would fit within the financial guidelines.

The 48,000 square foot building was completed at a cost of $1.6 million. The administration department is centrally located with dual access corridors on either side of the suite. Staff members may be in any part of the building in short order.

"This is like heaven to us," says Mrs. Joan Gendreau, Principal of the school. "We used to
hold classes in church basements or wherever space might be available to us."

The students who are ages 5 to 21 generally enter the school through its electronically operated double doors. Most are bused. Besides the driver, there is an aide and usually a hydraulic lift for those in wheelchairs.

Since the transportation of those students requires a "staging area" the architect intentionally placed the cafeteria near the entrance to serve as a multiple commons area. This provides room for various activities including music. Some of the students perform cafeteria duties.

The stereotyped clinical look so typical of such facilities is minimized by the architect's use of warm-toned color hues. Architect Brown points out, "We made every effort to diminish the institutional look and to accent the residential environment as much as possible. Toward that end, the ceilings are intentionally low within the guidelines of proper air circulation, and lighting and equipment heights are scaled to suit various age groups."

The walls are carpeted to cut down on injuries to the children and are zig-zagged to accommodate wheelchairs. One way glass windows were installed so that the students may be observed without interruption.

Flexibility was designed into the building through the use of folding classroom partitions which allow fewer staff members to supervise larger groups of children in the same space that can be ultimately divided into more intimate study sessions," explained the architect. One teacher and an aide work with groups of six to fifteen students.

In an apartment built inside the school, students learn grooming, how to make beds, sewing and cooking as well. They do all the school laundry.

An interior court is surrounded by the continuous-circle hallway. The court provides a secluded play area easily supervised.

Kilmer Center has a gym and a hydrotherapy pool. The work area is close by where it is hoped that eventually some of the students may earn a small amount of money.

The staff hopes to obtain equipment to make logs out of newspapers. Mrs. Gendreaux points out that it has never been considered to "pay" the students in play money. "Even just one real penny is better," she said.

Visits by interested persons are welcomed at Kilmer Center. Tours are scheduled most Wed-

(Continued on page 52)
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Richmond
Williams and Tazewell & Associates, Inc.—Architect

General Contractors, George Hyman Construction Co.
and Blake Construction Co., Inc.

to tell the Virginia Story

OCTOBER 1980
Williams and Tazewell, Norfolk Architects for the $120 million Veterans Administration Hospital announced recently that Phase II is now under construction. The $94,039,000 Finish Construction contract was awarded to Blake Construction of Washington, D.C. The construction is scheduled to be completed by June 1983. The project is a joint venture with Williams and Tazewell and Perkins & Will.

The $17,750,000 Phase I contract was simultaneously completed by George Hyman Construction Company of Bethesda, Maryland. It consisted of sitework, foundation and superstructure.

Tamas F. Pucher, a principal of W&T and Project Director of the ultra modern complex, said, "The new VA Hospital in Richmond, Virginia is one of the largest in the nation, replacing an existing hospital created in 1946. The hospital will take 3 million man hours to complete, the equivalent of approximately 4 years work for 400 persons. It will require 550,000 tons of steel, 2 million pounds of galvanized sheet metal, 1 million bricks, and 16,000 tons of asphalt for the road and parking areas. In addition, there is 1.2 million sq. ft. of gypsum wallboard and 75,000 cu. yds. of poured-in-place concrete which will require approximately 132,000 tons of regionally quarried sand and gravel. It is a great boon to Virginia and to the Veterans."

A two-story interior mall under continuous skylights will be the focus of community life, and will be a relaxing indoor/outdoor area designed to support the well being of the patients. It runs east and west for the length of the building and serves as a transition area from the exterior to the interior. It features spaciousness, great height, large trees and plantings within the mall.

The environment is barrier free which is particularly necessary, because the hospital contains large spinal cord and home care nursing units. These are located next to the mall on the same level assuring that these patients will be close to the main stream of hospital life.

The hospital serves as a rehabilitation center and is programmed and designed to be responsive to the need of the many veterans to reacquire the ability to comfortably function in ordinary life. The Veterans Administration's motto is "To care for him who shall have borne the battle."

George Hyman Construction Co. of Bethesda and Blake Construction Co. Inc. of Washington, D.C. are general contractors. George Hyman Construction Co. is also handling excavating, foundations, concrete work and steel erection.

Subcontractors and Suppliers to date:

Montague-Betts Co., Inc., Lynchburg, reinforcing & steel supplier; Lone Star Industries, Inc., Richmond, concrete supplier; Baltimore Clay Products/Anning-Johnson Co., Springfield, interstitial deck; the Waldinger Corp., Des Moines, IA, sheet metal; Fire Door Corp. of America, New York City, NY, metal doors & frames; Worsham Sprinkler Co., Inc., Mechanicsville, sprinkler contractor; Wm. H. White Jr., Inc., Richmond, plumbing/heating/ventilating/air conditioning contractor; and Ernst/Meyers, a joint venture, electrical contractors.
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Correction
Wes-Way Sprinkler Company, Inc. of Mechanicsville, subcontractor for Sprinkler Systems for the Valley Nursing Home, Chilhowie, was inadvertently omitted from the list of credits in our July 1980 issue. Our Apologies.

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Seneca State Park
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VVKR Incorporated—Architect/Engineer

Landscape Architect, VVKR Incorporated • Interior Design, VVKR Incorporated • General Contractor, Linton Construction, Inc. • Photography, VVKR Incorporated.
The architectural theme of the buildings, and site furnishings reflects the natural setting of the large regional park, providing a rustic appearance with low maintenance materials.

Engineering Systems—a large portion of the first phase work included the design and specifications for water, sanitary sewer, and storm water systems.

The construction costs for the first phase of Seneca Park include approximately $915,000 for buildings and approximately $1,700,000 for road and utility construction, for a total project cost of approximately $2,600,000.

The first construction phase covers approximately 300 acres.

VVKR was commissioned to review a master plan prepared by the Maryland Department of Natural Resources, make recommendations for development, and provide the necessary design services for implementation of the 815-acre Master Plan for the Park. The Park is at the confluence of Great Seneca Creek and Long Draught Branch, and is designed to accommodate as many as 3,000 visitors per day. The project involves $3.2 million in construction costs in two phases. The plan includes:

- Visitors Center—provides an auditorium and exhibit area for community use, and park offices.
- Boating Center—designed to accommodate a boating concession on the 83-acre man-made lake. Includes boat storage for 45 boats, a floating dock, and offices for the concessionaire.
- The Service Complex—utilizes pre-engineered buildings for equipment maintenance and storage, and provides offices for Park administrative personnel.
- Contact Station—provides visitor with first contact with Park personnel and becomes a graphic introduction to the Park.
- Comfort Stations—seven stations were designed as unobtrusive, low maintenance, and vandalproof structures.

Linton Construction, Inc. of Rockville, Maryland was general contractor and handled sodding, seeding, etc., landscaping, landscaping work, foundations, concrete work, carpentry, roof/wall/foundation insulation and sheet metal.

Subcontractors & Suppliers

Walk Company, Howard County, excavating; Flintkote, Inc., Frederick, MD, paving contractor; Trowbridge Steel Co., Inc., Sterling, reinforcing; Karon Masonry, Inc., Beltsville, MD, masonry contractor; Alumitron Corp., Hyde Park, MD, handrails; Seyer Lumber & Millwork, Chambersburg, PA, millwork, paneling, cabinets & wood doors; Jack's Roofing Co., Inc., Bethesda, MD, built-up roof; and Virginia Roofing Corp., Alexandria, other roofing.

Also, American Plate Glass Co., Kensington, MD, glass, glazing contractor; windows & storefront; Walsh & Koehler, Erie, PA, metal doors & frames; Construction Hardware, Inc., Willow Grove, PA, finish hardware; Contractors' Supply Corp., Englewood, NJ, hardware supplier; Warthen, Inc., Frederick, MD, gypsum board contractor; Southern Maryland Contractors, La Plata, MD, resilient tile; Ronald Mayhew, Inc., Arlington, painting contractor (Glidden Paints); Noland Co., Falls Church, plumbing fixture supplier; Ka-Lo Plumbing, plumbing contractor; Asmar Co., Inc., Vienna, heating/ventilating/air conditioning contractor; and Pel Bern Electric, Inc., Washington, DC, electrical contractor.
Colby Residence
Great Falls
Richard A. Compton, AIA and John G. Colby, AIA—Architects

As a natural development of an existing friendship and business relationship, John Colby, Architect, approached Mr. Compton with the opportunity of co-designing a home for himself. Working together, they were able to achieve exemplary results in a custom neighborhood where Mr. Compton has designed and built four other homes for the speculative market ranging from $300,000 to over $400,000.

The Colby residence was specifically designed to integrate a tennis court with the exterior configuration of the home. Therefore, the angled kitchen and garage walls became the end wall of the court. Large laminated glass windows afford courtside views from the kitchen eating space and second floor master bath while an exterior deck also overlooks the tennis court. All exterior wall surfaces are crafted of cedar.

Inside, the major designed space is a gracious two-story living room which opens to views from an adjacent library and two bedrooms at
the upper level. The living room ceiling matches
the finish of the exterior cedar siding and opens
through the rafters to a large clerestory window
above.

Interior finishes have been limited to a few
high quality materials such as natural oak, Eng­
lish quarry tiles, and berber carpet.

Of greatest significance is the fact that Messrs
Colby and Compton are still good friends and
planning other projects!

Compton Associates, Ltd. of Reston was gen­
eral contractor for the project.

Subcontractors & Suppliers
Russell Jenkins Excavation, Luray, excavat­
ing; Ralph Parker Landscaping, Culpeper, sod­
ding, seeding, etc., landscaping & landscaping
contractor; H & M Paving Co., Inc., Alexandria,
paving contractor; Bill Holloway Concrete, Falls
Church, concrete contractor; Falcon Materials,
Sterling, concrete supplier; Wayne S. Burleson,
Sterling, masonry contractor; Cherrydale Cen­
tment Block Co., Inc., Herndon, masonry supplier
& mortars: Arlington Iron Works, Inc., Manassas,
steel supplier & miscellaneous metal; W. C. Jen­
kins, Gaithersburg, MD, carpentry; Devlin Lumber & Supply, Rockville, MD, structural wood &
millwork; S & S Products, Manassas, cabinets;
Every Water Guard Co., Rockville, MD, water­
proofing; United Materials, Springfield, roofing;
A & R Insulation Co., Beltsville, MD, roof/ wall/
foundation insulation; and Airway Sheet Metal
Co., Inc., Great Falls, sheet metal.

Also, Herndon Glass & Screen Service, Hernd­
on, glass & glazing contractor; Binning’s, Inc.,
Lexington, NC windows; Sheets Wholesale, Inc.,
Vienna, hardware supplier; M & B Ceramic Tile
Co., Fairfax, ceramic tile; Miles Carpet Service,
Inc., Merrifield, carpet; C. F. McCloskey, Alex­
andria, painting contractor; Duron Paint Mfg.
Co., Inc., Herndon, paint supplier/manufacturer;
Ferguson Plumbing Supply, Chantilly, plumbing
fixture supplier; O. W. “Bill” Smith Plumbing &
Heating, Sterling, plumbing contractor; J. G.
Bennett & Sons, Merrifield, heating/ventilating
air conditioning contractor; Dominion Electric
Supply Co., Inc., Arlington, lighting fixtures/elec­
trical /equipment supplier; and Paul A. Hal­
bach, Inc., Arlington, electrical contractor.

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The Newport News Department of Public Utilities programmed an expansion to its Engineering Building to accommodate additional drafting space, records rooms and other auxiliary spaces.

Other program requirements were to make the building accessible to the physically handicapped, provide a new employee entrance, analyze the existing HVAC system, and adhere to the budget. Sitework outside of the building limits was not included in the project.

The major design objective was to create compatible massing with the new building and minimize the interface between the existing building and the addition. This allowed greater flexibility with the window proportions and masonry details.

The 45 degree splayed wall forms the major portal for the employee entrance and separates pedestrian from vehicular traffic. The exposed steel joist and metal deck canopy serves two-fold to shade the south facing windows of the drafting room and protect the entrance ramp during inclement weather. The drafting room was oriented south to take advantage of the best view on the site.

Exposed exterior metal fabrications are painted red, creating a striking contrast against the gray-tinted white building. Aluminum fascia system is gray to terminate the masonry parapet. Entrance doors are blue and windows are mill-finished aluminum with gray-tinted glazing.

The structure is masonry bearing walls, concrete slab and steel joists. Exterior walls are painted brick. Interior walls are painted gypsum board on metal studs. Floors are vinyl asbestos tile and ceilings are acoustical panel.
A square foot expansion was completed and occupied in January 1980. Cochran Construction Co. of Hampton was general contractor for the project.

Subcontractors & Suppliers

Norfolk firms were: Hall-Hodges Co., Inc., reinforcing; Eastern Roofing Corp., built-up roof, roof insulation and sheet metal; PPG Industries, Inc., glass, glazing contractor & windows; and Door Engineering Corp., specialties.

From Newport News were: Benson-Phillips Co., Inc., concrete supplier & masonry supplier; J. D. Hammond, Inc., masonry contractor; Paul Plaster and Acoustic Co., wall insulation, gypsum board contractor & acoustical treatment; and Deuell Decorating Co., Inc., painting contractor.

Others were: Compton Iron Works, Inc., Virginia Beach, steel supplier/erection/Joists/roof deck & miscellaneous metal; Seaboard Building Supply Co., Virginia Beach, metal doors & frames, wood doors & hardware supplier; Southeastern Tile and Rug Co., Inc., Hampton, resilient tile; and R. F. Scott, Smithfield, sprinkler/plumbing/heating/ventilating/air conditioning/electrical contractor.
Ambulatory Care Facility
Prince George's Hospital, Cheverly, Maryland
VVKR Incorporated—Architect/Engineer

SITE PLAN

Landscape Architect, VVKR Incorporated • Interior Design, VVKR Incorporated • General Contractor, General Federal Construction, Inc. • Photography, VVKR Incorporated.
The Prince George's Hospital project included the development and definition of community service loads related to ambulatory and emergency care. Consistent with this task, it also included the evaluation of existing resources of the 650-bed acute general hospital, programming, development of a master plan, and the design of new ambulatory care facilities for approximately 200,000 visits per year and structured parking facilities.

In this three-level, triangular-shaped structure individual clinics are located along a mall with waiting areas along the exterior, and diagnostic and treatment areas toward the interior of the building. The design of the facility allows a more efficient traffic flow to the clinics, which patients reach more easily through the coordinated use of brightly colored graphics and signage. A walk-in emergency clinic, located at one end of the mall, adjoins both the clinics and the emergency rooms. This is the major specialty referral center and is designed to accommodate a quarter of a million patient visits per year.

Significant features of this project include:

- The standardization of ambulatory clinic modules to accommodate a wide assortment of specialty ambulatory care clinics ranging from learning disabilities, family practice and psychiatric, through all the specialized medical/surgical clinics including endocrinology, cardio-
vascular and oncology. Expansion of centralized medical center diagnostic and treatment facilities including specialized radiology, nuclear medicine, electromyography, inhalation therapy, pharmacy, and clinical pathology.

- The use of "schedule simulation" and "gamifying" in clinic space program and module determination.
- The functional relationship of acute emergency access, "walk-in-patient" access and emergency psychiatric patient access.
- The use of performance type documents for the procurement of structured parking facilities, and the integration of the type of procurement with custom designed clinical facilities.
- The use of Construction Management systems for project implementation.
- The project includes regional linen processing facilities to serve four institutions.
- The separation of staff work from patient circulation in each clinic module.
- Reorganization of circulation patterns, and point of entry patients and visitors to the medical center.
- The resources for the handling of rape crisis victims.

General Federal Construction, Inc. of Silver Spring, Maryland was general contractor and handled excavating, sodding, seeding, etc., and foundations.

Subcontractors & Suppliers


Others were: Kidwell & Kidwell, Inc., College Park, MD, masonry contractor/manufacturer/supplier & mortar; Janco Enterprises, Inc., Landover Hills, MD, steel supplier/erection/joists/roof deck & handrails; American Iron Works, Inc., Bladensburg, MD, miscellaneous metal; Carl Toma, New Jersey, cabinets; J. W. Conway, Inc., Hyattsville, MD, caulking, built up roof, other roofing, roof insulation, foundation insulation & sheet metal; Firedoor Corp., New York City, NY, metal doors & frames; Fries, Beall & Sharp Co., Alexandria, hardware supplier; D. R. Thomas, Inc., Hanover, MD, gypsum board contractor & acoustical treatment; Madison Decrating Co., Crofton, MD, painting contractor/supplier, special wall finish & wall covering; and Dynalectric Co., Vienna, electrical equipment supplier & electrical contractor.

Also utilized were: Armstrong resilient tile; Lees carpeting; Metpar specialties & Watrous, Inc., equipment.
The 'Meagher House'
Restoration/Renovation, Richmond
Wallace F. Mills, AIA—Architect/Owner

Church Hill in the past, was a forerunner of styles, prominent families and historic events; and to many of the families who lived there it was with sad goodbyes they left their often one-of-a-kind homes.

In recent years Church Hill has seen many people return; look past the dust and trash to the beauty of the buildings which have withstood both the continuous architectural style changes and the growth changes of a nation's people. The fact these buildings still hold the charm, space and can be adapted to an energy crunch, says it all for the close knit neighborhood of people which now occupy these homes and are striving to make Church Hill the focal point it once was.

It was these ideas, people, and a strong desire to save another well constructed building which led the Owner/Architect to restore the residence known as "The Meagher House," 2715 East Grace to its former elegance.

The Residence
The large residence was restored and renovated; protecting the objects of the period in which the house was built, such as the floors, wood trim, plaster moldings, etc. The first floor starts with an entrance hall with a side alcove to the left and a formal living room to the right. From the formal living room with its hand made fans, large oak mantels, built-in
storage/entertainment wall, and floor to ceiling windows; you enter the
dormal dining room. This room has matching fixtures, mantel, etc. to the
living room so that when entertaining these rooms can act either separ­
ately or together, by opening or closing the large sliding doors.
The dining room is served from a "Pullman" type kitchen, designed with
minimum movement in mind. The kitchen has a trash compactor, range
and range hood, exhausting to the outside, dishwasher, double stainless
steel sink with a large disposal unit, refrigerator, large drawer storage
cabinet, and master control center for the intercom system. There are
sufficient base cabinets and wall cabinets around this room in oak finish,
and overhead is a light fixture/glass rack designed for stemware and
custom built for the house. The floor is of no-wax resilient sheet goods, in
a glazed tile design.

Off the kitchen is a larger than average powder room with a reporcelained
corner sink. Beyond this room is a laundry center designed for a
stack unit washer/dryer, with cabinets to store detergents or other items
from the kitchen.
The kitchen, dining room, and entry hall open onto a large multi-level
treated wood deck and gazebo. The deck opens onto a brick patio and
large enclosed back yard. Beyond the back yard is offstreet parking for
four cars.
The stair from the entry hall is original wood, restored with walnut
handrail Newel Post and also restored metal "dust catchers" in the
corners. This stair design is a "scissor" design with an intermediate
landing. Off the landing is a working sun room/green house.
The green house has its own heat, 8'-0" Grow-Lite, sink and Formica
work table. The floor is of resilient sheet goods for fast mop cleaning. In
the corner is a storage cabinet of a curved design which is original with the
house. The skylight is ½" plexiglas.
The second floor has two (2) large bedrooms with rebuilt fireplaces in
each; ceiling fans or reostats; recessed lights in each room; and each room
has a "wall" of closets.
This floor also has the master bath, a true bathers paradise. The tub is
by Jacuzzi—"The Athena"—the largest bathing/whirlpool tub made by
Jacuzzi, large enough for four (4) bathers. It is surrounded by ceramic tile
with the ceiling over it at approximately 14 feet high and covered entirely
with a ½" plexiglas skylight. On each side of the tub are mixing valves
controlling "his" and "her" massage shower heads. The linen closet in this
room is composed of low oak cabinets mounted over the heat system to
provide heated towels in the winter. This room is the only room in the
residence with carpet. Carpet was chosen for warmth and easy main-
tenance.

The heating system was designed for both economy for the owner each
month and a consistent warmth, with controls sufficient to maintain the
heat desired. The system consists of two (2) zones of hot water baseboard
heat, and is fired by a gas boiler in the basement. One (1) zone supplies the
second floor (sleeping area), and one (1) zone supplies the first floor
(living area). This heat is also backed by a passive solar heating system.
On sunny winter days, heat is gained by opening the transom of the door to
the green house and allowing this green house trapped solar heat to come
into the living area of the house.

Air conditioning or summer heat was studied for energy conservation.
Each room has a ceiling fan which runs at full power with the energy
consumption of one (1) 100 watt light bulb. The roof is insulated with 8" of
cellulose insulation. The roof surface is coated with heat reflective alumi-
num coating and there are two (2) exhaust vents (wind and heat powered)
to remove heat from the attic space. If all of the above fail to make the
occupants comfortable, each room has a window or place, located not to
be physically unattractive from the street, in which a window unit of small
size can be located and the electrical service of these receptacles is a
straight line to the breaker panel. Therefore, any use of a window unit for
dehumidifying will not dim or fluctuate the power going to any other
appliance. A duct system would have ruined the space of the rooms as
they were designed. One (1) window unit per floor, running only at extreme
weather days, and then only part of the day, should more than meet any
demands at less cost than built-in air conditioning.

The hot water heaters for the residence are two (2) large gas hot water
heaters, hooked in tandem to provide continuous hot water at any one
time or any probable use demand. A total of 130 gallons are always hot
and ready. The four (4) fireplaces in the residence were rebuilt from the
grade through the roof. The first floor level has enlarged burning capacity,
30 inches wide, and the second floor has the original opening of 24 inches.
All are lined with new fire brick, terra cotta flue liners and metal dampers.
The floors of the residence are Georgia Pine and were seasoned approxi-
mately five (5) years before being installed in the house. The house was
built approximately 1870.

The wood trim is all multimembered trim of original design and of width
and thickness as to be a prohibitive in the construction of a house on
today's market, for cost alone.
The front porch wrought iron is original and took two (2) months in 1979 to restore so that the intricate forging designs were once again visible. The entrance door etched glass design was restored by Art Miller, "Artist-in-residence" at the Virginia Museum of Fine Arts. The design was made from a single remaining piece of glass left in a side light.

The house is wired to each room for stereo speakers from a master in the living room. Each room is wired for intercom with the master in the kitchen. Each room is wired with a phone jack, including the bathroom. The phone system is designed to take eight (8) separate numbers.

The residence was truly designed with the arts in mind, music, dining, entertaining, and plants.

The Apartment

Tucked behind and totally in harmony with the Residence is a two-story "townhouse" apartment. It is completely sealed from the residence by either masonry walls or sound deadening double stud walls.

The apartment has its own entrances, exits, heat, utilities, etc., which make it a living unit within itself. The entrance is off the large deck into a "great room"; this room is comprised of three (3) sections, kitchen, dining, living areas. The kitchen is an efficiency kitchen with refrigerator, double sink with disposal, and range with exhaust hood. After preparing a meal this complete kitchen can be closed off from the rest of the room by folding paneled wood doors.

Several points of focal interest in this room capture the eye immediately upon entering. The iron spiral stair to the second floor, the small Petite Godin parlor stove imported from France, and the exposed brick accent wall which carries upward through the stair well to the second floor. The great room also has windows on all three sides with views of the deck and gazebo, the patio, and back yard. This room is presently painted in oyster shell white with wall to wall carpet in honey beige.

Upon ascending the spiral stair you enter the second floor study, a small area separated from the bedroom by a low wall divider. The divider is approximately four (4) feet high; this allows the bedroom area to take on greater dimensions of space, by flowing from space to space.

Off of the bedroom is a complete sunroom/greenhouse, similar in construction and design to the residence however, there is a door leading to a second floor balcony which overlooks the yards and has a straight stair leading to the deck.

Behind the bedroom there is a dressing room area with a wall of closets and a laundry room plus a full bathroom. The second floor is painted in oyster shell white with honey-beige wall to wall carpet. The bathroom and greenhouse floors are done in resilient sheet goods.

The architect extends special thanks to the many friends who helped through their labor and sincere belief in dreams.

Architect/Owner, Wallace F. Mills, AIA handled the general contract and painting.

Subcontractors & Suppliers

(Richmond firms unless noted)

W. F. Bailey, carpentry & masonry; J. A. Monroe, restored iron work; H. T. Loving, Inc., Ashland, electrical contractor; A. H. Street, plumbing contractor; Casey Nickolous, heating contractor; Colonial Iron Works, Inc., Colonial Heights, wrought iron (new work & fence); Royal Windyne Ltd., ceiling fans; J. W. Donahue, sheetrock hanging; Ne-Di Construction Co., Inc., Manakin-Sabot, insulation; and Atlantic Electrical Supply Corp., light fixtures and intercom.

Also, Arthur Miller Studios Ltd., etched glass; Richmond Glass Co., miscellaneous glass; Virginia Paint Co., Inc., paint; Lowe's, cabinets and appliances; Massey Builders' Supply Corp., Lowe's and R. A. Siewers, Inc., materials; New Kent Wood Preservatives, Inc., Providence Forge, treated wood; Lou Bland, plaster work; S. W. Jackson, wood floors; American Carpets, Inc., carpet & resilient tile; Plywood & Plastics, Inc., skylights; and E. T. Long, Inc., cast iron stove.

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to tell the Virginia Story

OCTOBER 1980
Duffy Residence
Great Falls
Richard A. Compton, AIA

General Contractor, Compton Associates, Ltd. • Photography, Adam Landis.
The Duffey Residence is one of three speculative homes which Architect Richard Compton and partners John Colby and Ned Ahmed have developed in an exclusive Great Falls, Virginia, neighborhood. The two-acre wooded site slopes gently up to the front entrance where the home is positioned to take advantage of prevailing breezes, passive solar opportunities and views of an adjacent 50-acre horse farm.

The exterior is clad in vertical cedar siding with minimal trim detailing to allow the form of solids and voids to be clearly seen. Numerous exterior patios and decks serve each side of the home.

Designed around a large interior atrium dining room, all rooms of the home are open to the major two-story, skylighted space, affording open views and much circulation space for gracious entertaining. The kitchen, library, and bath cabinetry are custom crafted of flush overlay, natural finish oak. English quarry tile and natural oak floors on the main level complement the natural berber carpet selected for the upper level bedrooms and stairs. The skylighted master bath suite is enhanced by exquisite fixtures.
and a custom-designed botanical shower of ceramic tile.

To date, Mr. Compton has designed and built eight homes of this size and character for the speculative market in suburban Washington, D.C. The market response has been outstanding. Compton Associates, Ltd. of Reston, was general contractor for the project.

Subcontractors & Suppliers
Russell Jenkins Excavation, Luray, excavating; Ralph Parker Landscape, Culpeper, seeding, sodding, etc., landscaping & landscaping contractor; H&M Paving Co., Inc., Alexandria, paving contractor; Bill Holloway Concrete, Falls Church, concrete contractor; Falcon Materials, Sterling, concrete supplier; Wayne S. Burleson, Sterling, masonry contractor; Cherrylade Cement Block Co., Inc., Herndon, masonry supplier & mortar; Arlington Iron Works, Inc., Manassas, steel supplier & miscellaneous metal; W. C. Jenkins, Gaithersburg, MD, carpentry; Herndon Lumber & Millwork, Inc., Herndon, structural wood & millwork; S&S Products, Inc., Manassas, cabinets; and Every Water Guard Co., Rockville, MD, waterproofing.


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Richmond, Va.
Residence for Mr. & Mrs. Karl Johnson
Fairfax
Lynwood E. Brown, AIA & Associates, Inc.—Architect

The limited size of a home and growing family needs demanded an addition to the Johnson house in Annandale. Several requirements were to be met; maintaining the "family" rear play-yard was major. The nearby neighborhood contemporary design was admired and thereby fostered a face-lifting that would relate to the immediate neighbor's traditionally rooted homes. Because of zoning setback requirements, limited budget and the desirability of saving front yard trees for summer shading, a limited front addition was arrived at. A second level was incorporated to achieve separation and space requirements as well as drama and a multitude of intrinsics such as vistas and ventilation.

The first floor involved enlarging the living room as well as an existing bedroom that was remodeled into a family room with a separate children's courtyard/entry. A sunken foyer, stairs and recessed armour closet with two (Continued on page 40)
Smyth-Bland Regional Library
Phases I & II, Marion
Echols-Sparger & Associates—Architect

Until this facility was occupied late in 1979, the Smyth-Bland Regional Library was confined to two classrooms in an old schoolhouse. The library had operated in these facilities since its beginning in 1972 and had outgrown the space available.
The federal Public Works Grant Program presented an opportunity to secure the funds needed for a new library. Largely through the efforts of a local volunteer organization, the Friends of the Library, an excellent site in the heart of Marion, Virginia, the County Seat of Smyth County, was obtained. Application for construction funds was then made by the Smyth County Board of Supervisors.

Funding was provided for approximately one-half of the proposed project. It was, therefore, necessary, within a tight time frame, to reduce the size of the project significantly. The initial construction was divided into two contracts to expedite commencement of construction. Echols-Sparger and Associates devised a phased-construction plan which would allow the new building to be expanded as funds became available. Space usages within the first phase were reassigned to accommodate all the library's functions until the remainder of the facility can be constructed.

Charging, references, reading area, and periodicals are presently accommodated within what will eventually be the information/charging area. Other spaces include the stack area, children's library and bookmobile garage.

On the exterior, the building gets its character from the articulation of its brick surfaces. There is considerable use of soldier coursing and a structural brick arch unmistakably defines the entrance. The future construction will complement and expand upon the design theme established by the built portion of the project.

Cassel Brothers, Inc. of Kingsport, Tennessee was general contractor for Phase I, and handled foundations and concrete work.

Payne Construction Co., Inc. of Bedford was general contractor for Phase II, and handled sodding, seeding, etc., and carpentry.

Subcontractors & Suppliers

Carr Brothers, Blountville, TN, excavating; Valley Steel Corp., Salem, reinforcing; Pendleton Construction Corp., Marion, concrete supplier; Moore Masonry, masonry contractor; Virginia Block Co., Pulaski, supplied brick; General Shale Products Corp., Marion, supplied brick; Al-Steel Fabricators, Inc., Roanoke, steel supplier/joists.


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Johnson Residence
(From page 37)
layered skywindows overhead was incorporated.

The second floor addition had the master bedroom placed over the “quiet” living room. The bedroom suite includes a bathroom and a walk-in closet, as well as a study over a portion of the two-story layer/stairwell.

The remodeled areas removed resistance to the radiant ceiling heating system. Increased insulation, double glazed windows and a standard “package” heat-pump unit were installed to maximize energy savings. Due to the front orientation to the south, passive solar was possible.

Shingles, siding and similar color scheme used were to match the existing house for savings and to complement it. A slight color accent was used to unify the window groupings.

The main entrance was shifted to orient to driveway/parking. An entry court yard was created for softening of the two-story vertical element as well as wind screening.

Separate wing/screening walks, which are extended past the addition on two sides, create zones of privacy and entrance to family room as well as visibly extending the structure.

George Curtis Home Improvements, of Vienna, was general contractor and handled sodding, seeding, etc., foundations, steel erection, carpentry, caulking, roofing, wall insulation, sheet metal and exterior painting. The owner handled interior painting.

Subcontractors & Suppliers
Equipment Services, Falls Church, excavating; Richard Abernathy, Fairfax, concrete contractor; Virginia Concrete Co., Inc., Springfield, concrete supplier; H. O. Engen, Inc., Vienna, masonry supplier & mortar; Sheets Wholesale, Inc., Vienna, steel supplier; Hercules Iron Works, Merrifield, handrails; Lowes of Vienna, Vienna, structural wood; Dale Lumber Co., Inc., Falls Church, millwork; and Andersen, windows.

Also, True Tile Co., Inc., Woodbridge, ceramic tile; Duron Paint Mfg. Co., Inc., Herrndon, paint supplier/manufacturer; James D. Hardy, Arlington, plumming contractor; and Town & Country Electric, Heating & Air Conditioning, Annandale, heating/air conditioning/electrical contractor.
Buchanan Elementary School
Addition, Buchanan
Sherertz, Franklin, Crawford, Shaffner—Architect

On February 1, 1978, a structure fire was reported at the old Buchanan Elementary School. The origin of the fire was never specifically determined, however, the resulting destruction was total. This event left several hundred children without adequate educational facilities.

The first priority of the Botetourt County School Board was to provide facilities for the children to continue their education. Two factors played an important role in the final solution to the problem created by the fire. First, the school administration and board had the foresight to plan ahead for their evergrowing community and second, the old school which was destroyed was insured for "replacement value."

Several years prior to the fire, the school administration had requested that a new elementary school, which was being built in Buchanan, be designed with expansion capabilities. Sherertz, Franklin, Crawford, Shaffner were the architects for the elementary school which was completed in 1974. What was to happen to the school in terms of expansion at some later date became an immediate reality due to the fire.

In planning a facility to replace the destroyed school building, SFCS studied several different schemes as well as the possibility of a new replacement facility. They determined that an addition to the school they had designed in 1974 was the most desirable solution to the problem.

It took the school board approximately five months to resolve what course of action to pursue and to sort out insurance and legal matters. In July 1978, SFCS began design of the addition. Since much time had been (Continued on page 53)
Operating from trailers and "borrowed" corners of hangar space for some 12 years, the Aviation Section of the District of Columbia National Guard was finally authorized to build its own facility for maintenance and flight operations. Jones and Strange-Boston were selected as architects and engineers for the project and, working closely with the owners' U.S. Property and Fiscal Officer and the Aviation Officer, site study was begun. While the National Guard had already secured a lease on a site at Davison Army Air Field, Fort Belvoir, an intensive re-study of sites available at Andrews AFB, Dulles IAP, and other locations was conducted by the National Guard Bureau to verify the choice. Air traffic patterns, proximity of like equipment and special fuel and maintenance support offered by the U.S. Army at Fort Belvoir confirmed the original placement decision and design work was begun for the leased site.

Four major problems were presented by the selected site: sloping ground; poor surface drainage off site; underground springs; and soil contaminated with wood parasites. These were overcome by the architects with careful grading, storm water management techniques, subsurface drainage systems, and an on-site soil stockpiling program. The site, while layered with early fill up to seven feet, was found suitable for spread footings located on the original ground.

The facilities provided within the building are in two categories: Operations/Administration in the one-story finished portion along the airfield side, and Maintenance, which includes the hangar and the shops grouped around it. Surrounding the hangar are Prop/Rotor Repair Shop, Avionics, Painting, Welding, Sheet Metal, Battery, etc., together with a complete Supply Section. The Operations/Administration section provides classroom training, reference space, flight planning and operations control, as well as the required office space. Landing lights leading into the tie-down pads are controlled from this wing.

The 27-foot high hangar doors are easily moved in sections by one man. They are insulated steel construction, with metal siding and ball-bearing bottom wheels supported on steel rails. Electric heating wires are used to prevent ice build-up on the tracks. A wind truss space frame is used at the head of these doors for rigidity and support against gusts of wind across the airfield. The size of the door opening eliminates much of the required rigidity on the front side of the hangar wall—to strengthen this wall, the architects provided side buttresses which give the building its identifying shape. Other features of the hangar are a surface grounding system, carefully controlled floor slopes, and a three-ton bridge crane used to lift major aircraft parts and transfer them to dollies at shop doors.

Since long-term maintenance is always a problem at an armed service installation, in that it is usually accomplished on a contract basis.
Christ Episcopal Church
Addition, Amelia Courthouse
Fraher and Harrison—Architects

Mechanical Engineer, Simmons, Rockecharlie & Prince, Inc. • Structural Engineer, Dunbar, Milby & Williams • General Contractor, T&L Construction Co.

Christ Church in the village of Amelia is a fine example of a small rural 19th Century Virginia church. Built in a Victorian Gothic style, the one-
The church was consecrated in 1888 although church records indicate it may have been built a few years earlier.

The church remained in use with few changes until the recent addition was made to provide Sunday School space, kitchen and toilet facilities. Although contemporary in feeling, the addition was designed to blend with the existing building by the use of the same rough stucco exterior, steeply pitched roof, and the adaptive use of the Gothic arch which characterizes the original building.

Because the site was very limited in size, the addition was designed with two floors connecting the existing building at an intermediate level. Since the addition required the closing of an existing window, skylights were installed above the hallway behind the chancel, providing back-lighting for an existing stained glass window.

T&L Construction Co. of Midlothian was general contractor and handled excavating and carpentry.

Subcontractors & Suppliers
E. L. Hogan, Chesterfield County, concrete contractor; Joe Easter, Amelia County, masonry contractor; Sneed's Cabinet Shop, Chesterfield County, cabinets; John Binns, Cumberland County, roofing; Howard Bollinger, Amelia Courthouse, plaster contractor; C. V. Richardson, Amelia Courthouse, gypsum board contractor; George Olin Hardy, IV, Amelia Courthouse, plumbing/ventilating/electrical contractor.
Cumberland Bank & Trust Co.
Clintwood Facility, Clintwood
Byron R. Dickson, Architect

Located in the heart of Southwest Virginia's coal reserves, Cumberland Bank and Trust Company has just completed a new office in Clintwood. The recently constructed facility provides full service banking for Cumberland County, Virginia; parts of Kentucky and West Virginia.

This progressive banking organization is celebrating 60 years of service to the people in their marketing area. Originally founded as the Bank of Haysi in 1919 by Mr. R. L. Sutherland and relatives, growth has been steady over the years. Under the direction of Mr. Sutherland, a second office was opened in 1933 in Clintwood and later a third office was established in Grundy, which became the Main Office and Headquarters. In 1935 the name was changed to Cumberland Bank and Trust Company and after 35 additional years of continuous growth affiliation was established with Dominion Bankshares Corporation, a major banking group in Virginia.

Today the Cumberland organization is the largest bank headquartered west of Roanoke, having offices in Grundy, Oakwood, Haysi, Harmon Junction, Royal City and now the new 17,300 square foot facility at Clintwood. A total employment of over 130 persons serves the bank's present needs.

The new Clintwood facility is two stories. The ground floor provides the customer service functions. On the second floor are bank support activities, employee lounge and board room. Access to the main level is made from either the street side plaza or the rear parking area through entrance vestibules in the main banking lobby which is served by ten teller stations. Adjacent to the tellers' area is a cash room with employee toilet. Across and adjacent to the main lobby is the officers' platform. Opening onto the platform is the main vault with adjoining coupon booths; two private offices for local executives; and the real estate department.
platform itself provides desk stations for ten persons. File space, including an enclosed room and two built-in groupings, is abundant. Also located on the main level is the mechanical room.

Access to the second level is by elevator or one of the two stairways provided adjacent to each entry vestibule. The bank support functions on this level include installment credit, item control, private offices, records vault and copy room. Employee facilities include a large lounge with kitchen and toilet rooms. A janitor's closet and telephone equipment room are also provided.

The below grade structural system consists of concrete footings and masonry foundation walls. The vault enclosure is reinforced concrete. Brick and concrete masonry bearing walls with insulation filled cavity provide the structural support for the second floor and roof framing system. The ground floor is concrete slab on grade. The second floor is metal deck with concrete fill supported on steel joists. Roof framing is provided through the use of joist girders, pur- lins, metal deck and rigid insulation. A built-up roof insures moisture protection.

Interior finish systems reflect the needs of each space activity. The floor in the public areas on the first or ground level is terrazzo. All other floor covering is carpet with traffic and utility areas having vinyl asbestos tile. Wall finishes include brick, concrete masonry painted, drywall on metal studs with both vinyl wall covering and painted surfaces. The ceiling is predominately acoustic tile in a suspended metal grid system. Vault ceilings are painted concrete.

Site features include parking areas with handicapped provisions, circulation drives, plaza and open space development along the main road to the north and automobile banking facilities consisting of a canopy covered drive-up window and three remote units. An after-hours depository is located under the canopy.

The grand opening festivities for the new Clintwood facility took place on June 13, 1980. The project was delivered on time and ten percent under budget.

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

Subcontractors & Suppliers
(Salem firms unless noted)
H&H Contractors, Clintwood, excavating; Jessie Paving Co., St. Paul, paving contractor; Valley Steel Corp., reinforcing; Thompson Masonry Contractor, Inc., masonry contractor; Bolling Steel Co., steel supplier/roof deck & hand rails; John W. Hancock, Jr., Inc., steel joists; LaPrad Roofing & Sheet Metal Co., roofing; Central Glass Co. of Virginia, Inc., Bristol, glass, glazing contractor, window wall & storefront; and Skyline Paint & Hardware, Inc., Roanoke, metal doors & frames, wood windows, hardware supplier & specialties.

Executives at Weidmuller Terminations, Inc. are looking forward to occupying this fall what is to become the company’s new headquarters for the Western Hemisphere. The West German manufacturer of electrical terminals currently occupies limited space in buildings near Byrd International Airport, and the scheduled move will place personnel in facilities designed to meet current space needs with the capability of expansion in the future.

The first phase of the contemporary building will enclose an area of approximately 33,000 square feet. The plan is formed by the combination of triangular and rectangular spaces with

(Continued on page 53)
Central Fidelity Bank
Amelia Courthouse
Fraher and Harrison—Architects

Mechanical Engineer, CEK, Inc. • Electrical Engineer, CEK, Inc. • Structural Engineer, Dunbar, Milby and Williams • Interior Design, Thalhimer’s Business Interiors • General Contractor, Kenbridge Construction Co., Inc.
Prior to moving to its new facility in July 1979, the Amelia Branch of Central Fidelity Bank was located in a 50-year-old structure adjacent to Court Square in the village of Amelia. The older building had been expanded and modernized over the years, but a growing clientele brought about the need for additional lobby space, offices, parking, and expanded drive-in facilities not possible on the existing site. Because of this, the bank acquired a parcel of undeveloped land across Court Square and retained Fraher and Harrison, Architects, of Richmond to design a new facility.

The program for the new bank called for a 5000 square foot building which was to be traditional in design and in scale with the other buildings in the village surrounding the Court House. Drive-in facilities were to be provided for one direct teller window, one remote station, and space for another future remote unit.

Parking requirements were established in excess of minimum requirements in order to reduce congestion in the village area and to provide additional parking for community-related activities taking place in the bank’s board room.

The general contractor for the building was Kenbridge Construction Company of Kenbridge.

Subcontractors & Suppliers
(Richmond firms unless noted)
G. F. Vaughn, Amelia, excavating & paving contractor; Bowker & Roden, Inc., reinforcing supplier; Garrett, Moon and Pool, Inc., Blackstone, concrete supplier; Bruce & Holmes, Lawrenceville, masonry contractor; Brick & Tile Corp. of Lawrenceville, Lawrenceville, masonry manufacturer; Virginia Engineering Sales Co., steel supplier/joists; Hanover Fabricators, Ashland, wood trusses; Miller Manufacturing Co., Inc., millwork & wood doors; Commercial Caulking Co., caulking; W. O. Kennedy, Chase City, roofing; and Davenport Insulation, Inc., insulation.

Also, Pleasants Hardware, metal doors & frames & hardware supplier; M&W Millwork Manufacturers, Rocky Mount, window manufacturer; Mark Fasig, gypsum board contractor; H. E. Satterwhite, Inc., slate flooring; Manson & Utey, Inc., acoustical treatment & resilient tile; The Floor Show, Lynchburg, carpet; Chapman & Martin, Inc., Amelia, painting contractor & wall covering; M. A. Bruder & Sons, Inc., paint manufacturer; Roanoke Engineering Sales Co., Inc., specialties; Diebold, Inc., banking equipment; K&M Plumbing & Heating Co., Petersburg, plumbing/heating/ventilating/air conditioning contractor; G. E. Paine Electric Co., Inc., Mechanicsville, electrical contractor; and Key Fixture & Equipment, Inc., Lynchburg, teller casework.
Fire Station No. 10

(From page 15)

Company, plumbing fixture supplier; Wood Plumbing Co., Inc., plumbing/heating/ventilating/air conditioning contractor; and A. M. Savidge Co., electrical contractor.

Virginia Beach firms were: Tri-C-Steel Corp., steel supplier/erection/joists/roof deck & miscellaneous metals; Tidewater Architectural Products, metal doors & frames and hardware supplier; and Bozarth & Lane, Inc., plaster contractor, gypsum board contractor, acoustical treatment & resilient tile.

And, from Hampton: Charlie Ulisse & Sons, Inc., paving contractor (concrete); Chisman Co., concrete supplier; Taylor Insulating Co., wall insulation; Hampton Sheet Metal Works, sheet metal; Southeaster Tile & Rug Co., Inc., carpet; and Taylor-Parker Co., Inc., steel lockers.

Others were: Hall-Hodges Co., Inc., Norfolk, reinforcing; Hammond Masonry Corp., Sandston, masonry contractor/supplier; PPG Industries, Inc., glass, glazing contractor, windows & doors; E. Caligari & Son, Inc., Norfolk, painting contractor (Devos Paints); Door Engineering Corp., Norfolk, overhead doors; and Roanoke Engineering Sales Co., Inc., Roanoke, flagpole.

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VIRGINIA RECORD

Army Facility

(From Page 44)

using outside personnel rather than using Guards-men, the surface material was carefully considered. The architect concluded that a solvent-based waterproof coating on a very tight-faced concrete block, over-coated with a suitable weather coat was the most appropriate selection. As 75 percent of the building is heated only, a dark color was selected to favor heat gain in winter.

The structure is wall-bearing steel joist type with metal deck and built-up roof (special insulation inspection by the architect during waterproofing was used to insure use of proper techniques and kettle temperatures). The hangar roof is prefinished aluminum ribbed sheet, applied with slip connections over blanket insulation.

The mechanical system supplies heat from a central oil-fired boiler and cooling from rooftop multi-zone units. A battery of three air compressors provides tools and spray gun operating capacity.

Nine grounded tie-down pads for aircraft are located on the far side of the building together with one wash pad. Dimmable overhead lights provide a lead-in pattern from the main airfield taxiway for night flights.

Kora & Williams Corp. of Rockville, MD was general contractor and handled sodding, seeding, concrete work, carpentry, caulking, wall & foundation insulation, gypsum board, ceramic tile, acoustical treatment and resilient tile.

Subcontractors & Suppliers


Also, Washington Plate Glass Co., Inc., Washington, DC, glazing contractor; Superior Fireproof Door Co., Inc., Scarsdale, NY, metal doors & frames; Hope's Windows, Inc., Silver Spring, MD, windows; Atlantic Builders Hardware Corp., Washington, DC, hardware supplier; Shield, Inc., Blandensburg, MD, painting contractor; Stone Building Products, Silver Spring, MD, specialties; Stahl Metal Products, Cleveland, OH, equipment; Dickson & Co., Fairfax, plumbing/heating/air conditioning contractor; Almart Electrical Construction, Alexandria, electrical contractor; Fleming Steel Co., New Castle, PA, special doors; Munck Systems, Hampton, bridge crane; Better Termite & Pest Control Co., Inc., Alexandria, soil poisoning; and Ambrick Testing & Engineering Associates of Va., Inc., soil & concrete testing.

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lost, SFCS was asked to accelerate the design process as much as possible. Design was completed in three months with final approvals being received in October.

Several factors were taken into consideration in developing the new Buchanan Elementary School addition. Perhaps the most critical concern of the school board was the overloading of the cafeteria, which doubled as a playroom for the students. The area could handle serving the student lunches in several shifts. However, the additional time required for lunch would interfere with the scheduling of physical fitness activities.

In view of this problem, SFCS's new addition included another playroom with provisions for volleyball and basketball, as well as other recreational activities. The location of the new playroom at the end of the addition makes it accessible to the general public for after-hour use without threatening the security of classrooms or office areas.

The actual tie-in of the new addition occurs at the media center, thus allowing expansion of the center for the added pupil load. Other areas included in the addition are ten classrooms, two remedial learning centers, and supplemental toilet and work areas.

The exterior of this addition is an extension of the existing building with wide roof overhangs acting as protective covers for walkways. The play area, attached at the west end of the addition, is similar in character to the remainder of the building, but larger in scale. This creates a pleasing transition for the long, low lines of the classroom areas and maintains the scale necessary to balance the raised areas enclosing the existing multi-purpose room.

Interior spaces are brightly painted with complementary primary colors and are sub-divided by demountable partitions. All class areas are fully carpeted, creating a comfortable and quiet environment. The play area and the auditory/visual areas are defined and made more pleasant with the use of super-graphics. In play area a simple roof deck was used with beams painted to match the lively super-graphics. This helped to provide a totally coordinated interior scheme as well as an inexpensive solution to enclosing the space.

The mechanical systems were designed to provide optimum comfort through the use of energy efficient equipment. The addition, as well as the original building, is fully air conditioned through the use of electric heat pump, roof top units. The economy of operation of this system is enhanced by the extensive use of insulation to obtain optimum "UFACTORS." Further energy conservation is obtained through the use of night-setback and economizer controls.

C. L. Lewis and Co., Inc. of Lynchburg was general contractor for the project.

Subcontractors & Suppliers

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Autumn is Apple Time

- Autumn and apples — gilded leaves crunching underfoot and the aroma of apples simmering on a stove, the two go hand in hand. Consumers can get a hand in the apple harvest by visiting Virginia's 35 pick-your-own apple orchards for apples at the peak of flavor and fall foliage at the peak of beauty.

Directories listing the participating orchards in the areas of Amherst-Nelson Counties, Roanoke and Northern Virginia are now available from the Virginia Department of Agriculture and Consumer Services. Free copies may be obtained by writing: APPLIES, VDACS-Division of Markets, 203 N. Governor Street, Richmond, VA 23219 or by calling (804) 786-3951.

Maybe you missed some of your favorite pick-your-own crops because the summer heat wave kept you inside with the air conditioning. However, the sunny weather has produced apples with a distinctive sweetness and excellent size and quality. So, with cooler weather around the corner, now is the time to plan your "apple outing."

The orchards are offering both pick-your-own and fresh-picked apples in such popular varieties as Red and Golden Delicious, Winesap, York, Rome and Stayman. But there are other attractions, too, such as apple cider and apple butter-making demonstrations and local apple harvest festivals. At some orchards, you can picnic as well as pick, while you enjoy the lovely fall scenery. Look for these individual orchard features in the pick-your-own directory listings when you are checking harvest dates.

When you bring your bounty of apples home from the orchard, refrigerate or store them in a cool place as soon as possible. Then refer to another handy VDACS publication, "How to Enjoy Virginia Apples in the Old Dominion Tradition," available free from the above address. It contains helpful tips on apple varieties and uses, basic preparation and kitchen-tested recipes. If you didn't get a chance to put up any other produce this summer, it's not too late to can or freeze some apples, and this brochure tells you how to do it. In thinking of what else to do with that bushel, remember that apples are a naturally sweet and economical snack food which can be enjoyed without additives. That's a definite advantage over those snacks which require lots of added sugar, especially with today's escalating sugar prices. No matter how you enjoy them, when you pick Virginia apples, you pick the best.

FOR THE RECORD

NVBA Reaffirms Safety Commitment

- Recent news reports concerning federal versus state jurisdiction over construction safety regulatory functions, and the building industry's attitude toward worker safety, has led representatives of the Northern Virginia building industry to reaffirm their commitment to safe working conditions.

"Our work force is the most valued and integral resource of our industry," said Cecil M. Boyer, Jr., Northern Virginia Builders Association President. Stressing the industry's recorded position on safety, Boyer stated "we not only support, we voluntarily comply with measures which safeguard the health and safety of our work force. Any member of the Association who willfully and knowingly disregards potentially serious hazards is convicted of the same will be suspended from the Northern Virginia Builders Association," Boyer said. "Anything less than compliance with reasonable safety measures is not tolerated by the builders association."

A decision on whether state or federal authorities ultimately gain jurisdictional regulatory control under the Occupational Safety and Health Insurance Act (OSHA) is an issue out of the hands of the building industry. Boyer said, "We sincerely hope that a resolution is reached soon, clearly placing the ultimate responsibility under one agency or the other. "The industry is more concerned with the need for a review and overhaul of the Act's standards which would establish categories to deal with violations according to their severity. "There is a vast difference," Boyer said, "between inadequately shored trenches and whether or not a first aid kit contains the required number of band-aids. Expensive job shutdowns should be initiated only where clearly identified and potentially serious violations occur which could result in death or serious injury to workers."

Boyer pointed out that the Northern Virginia Builders Association supports Fairfax County's intervening action where trained inspectors are able to identify potential safety hazards that are serious in nature. "In this manner," Boyer said, "the job supervisor can be alerted and corrective action taken. This is particularly important during this interim period while the state and federal authorities are deliberating over which agency shall have regulatory jurisdiction in Virginia. Through the action of trained inspectors we can only improve on our safety record," Boyer said.

Corrections

Key Fixture & Equipment, Inc., of Lynchburg, furnished Food Service Equipment for the Richard C. Haydon Elementary School, Manassas. This credit was inadvertently omitted in coverage of the project in our April 1980 issue. Our Apologies.
Colonial Regiments to March
For George Washington's Review
At Gadsby's Tavern in Alexandria

- Colonial uniformed regiments will fire sixteen volleys to salute their Commander-in-Chief during the reenactment of George Washington's final military review of the troops. The reenactment of the 1798 review will be staged in front of Gadsby's Tavern Museum, 134 North Royal St. in Alexandria on Saturday, November 1 at 11 a.m.

Local citizens dressed as George Washington and his military aide Tobias Lear will stand on the Tavern steps where they will watch recreated Revolutionary units perform drills and wave banners to the music of fifes and drums. Gadsby's Tavern Museum will be open from 9 a.m. to 5 p.m. with half-price admission (50 cents) for adults and free admission for children. Cider and cookies will be sold by Colonial costumed docents at the Tavern from 9 to 11:30 a.m.

The annual reenactment commemorates Washington's review of Alexandria's Independent Blues and a cavalry unit in early November 1798. War with France was imminent, and the recently retired First President offered his services to the nation. Enroute from Mt. Vernon to Philadelphia, he stopped briefly at Gadsby's Tavern in Alexandria to review military troops as he had done in 1774 at the beginning of the Revolutionary War. The war with France never materialized, and Washington died at Mt. Vernon 13 months later in December 1799.

Gadsby's Tavern, the site of the historic reenactment, once provided lodging and meals for stagecoach passengers and travelers. It was a frequent meeting place for Thomas Jefferson, George Mason, the Marquis de Lafayette and other Colonial patriots. It has been restored as a working tavern serving Colonial style food and a museum furnished as an 18th century tavern.

The reenactment will be cancelled if it rains. For more about events, lodging, restaurants and other tourist information, write or phone the Alexandria Tourist Council, 221 King St., Alexandria, VA 22314; (703) 549-0205.

Bennett P. McRackan, Jr.
Joins Meidinger

- Bennett P. McRackan, Jr. has joined Meidinger, Inc.'s Human Resource Systems Group as a project manager and senior consultant. Meidinger, Inc., is one of the nation's largest compensation, benefit, and actuarial consulting firms. McRackan, previously a hospital administrator for Hospital Corporation of America (HCA), received an undergraduate degree in Labor Economics from Newberg College, and a Masters in Hospital Administration from Xavier University. McRackan will be located in Meidinger's Richmond office. Meidinger, Inc., headquartered in Louisville, has offices in 18 major U.S. cities and foreign affiliates in the United Kingdom, Belgium, and Germany.
Atlantic Research
Plans Major Expansion
At Gainesville Plant

- Mr. W. G. Hamm, Vice President of Atlantic Research Corporation and General Manager of the company's Propulsion Division, and Mrs. Kathleen Seefeldt, Chairman of the Prince William County Board of Supervisors, announced plans for a significant expansion of Atlantic Research Corporation's Pine Ridge Plant at Gainesville. The Pine Ridge Plant is the headquarters of the Propulsion Division, and is the division's principal engineering, development and manufacturing facility for solid propellant rocket motors. Also located at the Gainesville site is the propulsion-related portion of the company's Research and Technology Division.

The planned expansion program includes approximately $1,700,000 for a new engineering and office building on a seven acre site immediately adjacent to the present plant on Wellington Road. Approximately $2,300,000 will be spent on new and replacement machinery and equipment in the existing plant, to support new production and development programs. The Prince William County Economic Development Department and the Virginia Division of Industrial Development worked with the company in development of the expansion plan and the financing is planned to be in the form of revenue bonds under the authority of the Prince William Industrial Development Authority. Architectural and site planning work will be performed by R. B. Thomas, Ltd. of Manassas.

Atlantic Research solid propellant motors and gas generators are used on many of the country's significant missile systems, including Trident, Minuteman, MX, Standard Missile, Viper, Stinger, and Tomahawk. It was recently announced that ARC has been selected by the Vought Corporation for final development and production of the rocket motor for the Multiple Launch Rocket System, which has the potential of becoming the Company's largest program. The highly diversified corporation is also engaged in the manufacture of data communications equipment, electronic systems engineering, and is engaged in research for alternate energy sources.

In a recent release announcing second quarter earnings, Atlantic Research reported that for the six months ended June 30 the Corporation's results were 29% higher than the prior year. New business bookings of $56,000,000 through June 30 have raised the Company's funded backlog to $67,000,000 compared to $42,000,000 at the beginning of the year which includes initial funding related to the MLRS Program.

Atlantic Research is a publicly held corporation registered with the National Association of Securities Dealers (NASDAQ) on the over-the-counter market. The Company's corporate headquarters are located in Alexandria.

Hon Company Adds to Richmond Plant

- The Hon Company, manufacturer of office furniture, has announced the opening of a new warehouse addition to its Richmond plant according to Harry Matthews, Vice President and Richmond General Manager and the Virginia Division of Industrial Development. The 68,000 square foot addition has 50% more space than the existing plant and will replace a temporary facility.

If the new warehouse were filled to capacity with Hon's best selling vertical files and you laid them end to end, they would stretch almost seven miles and be worth more than a million dollars at retail prices, said Matthews. In addition to miles of files, the warehouse will store desks, chairs and other office furniture products made at Richmond and at other Hon plants. The new warehouse will serve as the distribution center for Hon dealers and their customers in the large Northeastern markets where Hon enjoys a high volume of business.

The Hon Company is a division of Hon Industries, Muscatine, Iowa, the parent company of six operating companies serving the office furniture and materials handling markets. The Chesterfield Department of Economic Development was instrumental in locating the company in the county.

French Company Chooses Hampton Location

- Valeo Auto Industries, Inc. of Delaware will open a manufacturing plant in Hampton, according to the Virginia Division of Industrial Development. The company will produce automobile parts at its Virginia location. Valeo Auto Industries, Inc.'s American Parent Company is Valeo Inc. It is a part of the Valeo Group of France, formerly known as the Societe Anonyme Francaise du Ferodo.

The new Virginia plant will share space with Soma of America, Inc., a French plant which located in Hampton in 1975 and is also a member of the Valeo group. It is a manufacturer of transmission components.

Production at the new Valeo plant was expected to begin in September of this year.

Italian Machinery Company Builds Office/Warehouse in Chesterfield

- G. D. Package Machinery, Inc. will build a new office and warehouse in the Southport Development of Chesterfield County, according to the Virginia Division of Industrial Development. The company is the North and South American headquarters of the parent company in Bologna, Italy, which manufactures packaging equipment for cigarette factories and high speed machinery for the confectionery industry.

At its Chesterfield location, the company will provide technical and consultation services to other companies plus spare parts for machines. The new 13,200 square foot building will be constructed on approximately two acres of land.

Employment at the new office facility is expected to increase by 30 percent. The Chesterfield Department of Economic Development was instrumental in locating the company in the county.
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