

Virginia **RECORD**

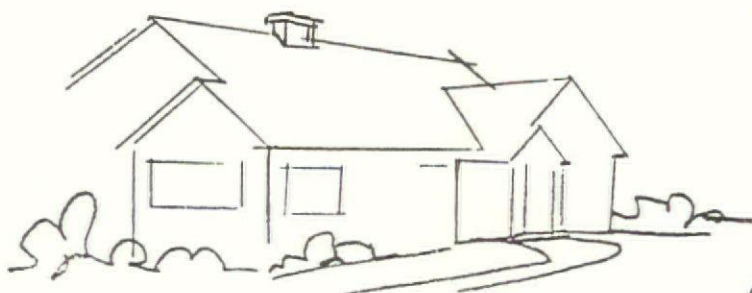
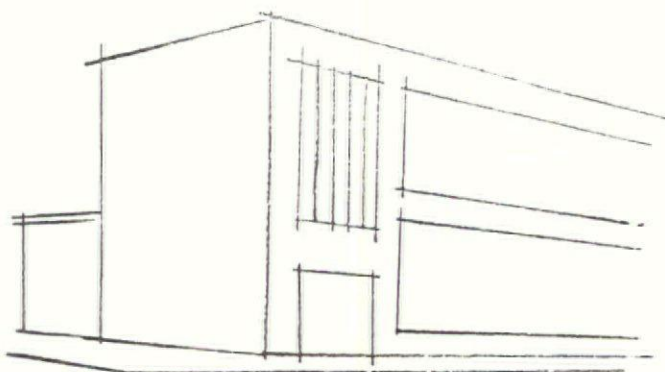
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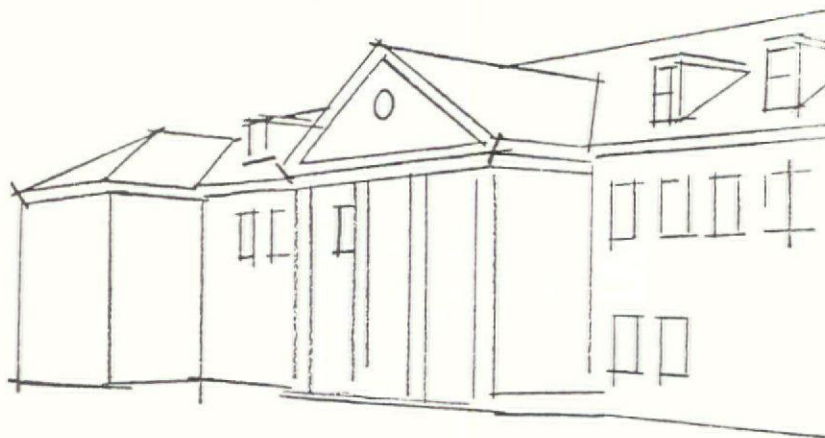
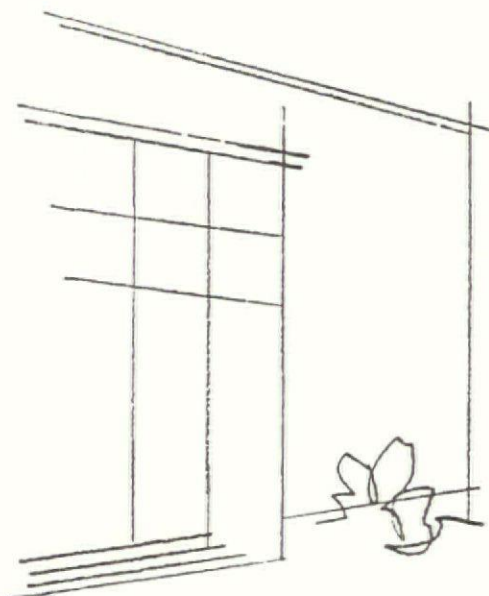
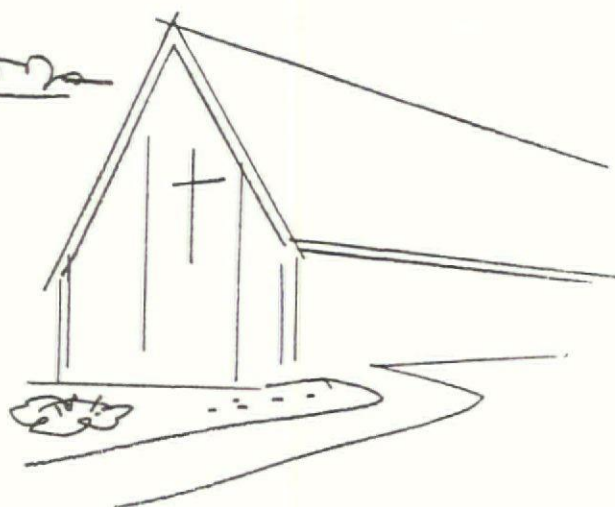
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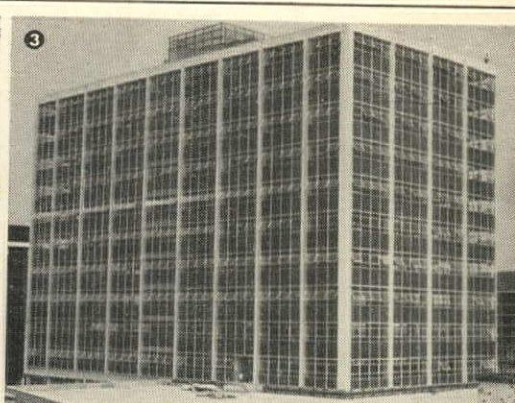
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3. **Ames Center.** Architect: John P. Fitzsimmons—Washington. Structural Engineers: Beall & LeMay—Washington.

4. **Key Building.** Architects: Edward Weihe & Associates—Washington. Structural Engineers: Heinzman & Clifton—Washington.

5. **1401 Wilson Boulevard.** Architects: Vosbeck-Vosbeck & Associates—Alexandria. Structural Engineers: Kendrick & Redinger—Arlington.

6. **London House.** Architect: Vlastimil Koubek—Washington. Structural Engineers: Baskam & Chester—Hicksville, N.Y.

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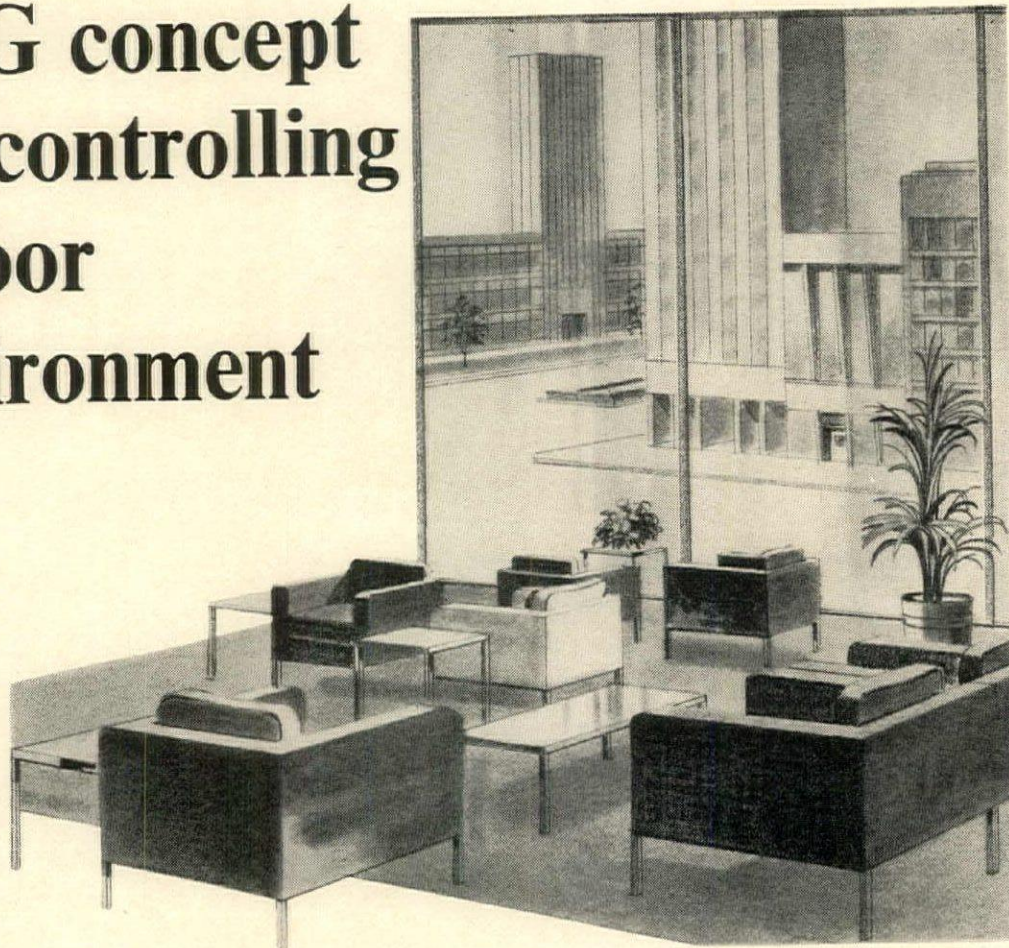
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LHR Solargray 1/4"	1.1	110	24
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LHR Solex 1/4"	1.1	110	35
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"Button, Button, Is There a Button?"

TODAY WE HEAR less and less about the "Founding Fathers" of the Republic. On the past Fourth of July letters to the newspapers commented upon the lack of flags displayed, but nobody accused any orator of "flag-waving." The last time "Rally 'Round the Flag, Boys" was used was in the title of funny book. The heroic lines on which we were raised—"A little more grape, Mister Bragg" and "We've only begun to fight"—have been translated to "A little more dough, Mister Shriver" and "We've only begun to give." This change is so obviously an accurate reflection of the changed attitudes of the American people that it has probably become embarrassing to remember the old slogans that came out of the Republic of the "Founding Fathers."

Somewhere along the way profound changes began to occur in the character of the nation—its people and its government—and nothing on any statistical chart explains this inner reality which so many recognize and so few confront. The new slogans of the uneasy times mostly refer to "images," and as Daniel J. Boorstin pointed out in his book, *The Image*: "One of our grandest illusions is the belief in a 'cure.' There is no cure. There is only opportunity for discovery. For this the New World gave us a grand, unique beginning."

In the changes, it seems we forgot that our beginning was along paths of discovery in a New World, and that in the discoveries a new breed of people was brought forth out of the primal wilderness, themselves to bring into being a new form of self-government. In discovering the nature of an unexplored continent, the new breed—the North American—constantly made discoveries about his own nature and the nature of dreams which his own efforts would bring into reality. Then, after the new continental nation was wrought from a composite dream, discoveries began to concentrate on the technologies that manipulated the environment and, beyond that, concentrated further on scientific discoveries into Outer Space.

This "outer," in the views of current sociological studies on the American in his rootless society, is very significant: "outer-directed" has come now to characterize the citizen who looks "outer" to things rather than "inward" to himself. In this "outer direction," he is rarely a participant. Not only has he become a spectator, but a listless spectator who takes his most positive stand on being "uninvolved." Others are making discoveries in outer space, which truly do not involve or even immediately concern the average citizen, who gazes with the same unconcern at his immediate surroundings, waiting with various time-consuming opiates for others to discover "cures" for things that do, or should, concern him.

The architect encounters this general apathy in bringing any conscientious interest to the use of his talents for the larger benefits of the community. For years we have read of Urban Renewal, periodically we read of "zoning" and "re-zoning," and along with the regular news about Richmond's Planning Commission comes the occasional big splash about some great project. The latest (as of this moment) is the obliteration of the sub-section of Fulton to be replaced with a whole new residential development. How wonderful it (Continued on page 105)

The striking forms of the new Markel building featured on the cover are really of natural colored aluminum but, due to a bit of photographic alchemy, show up in artificial light as the shimmering, gold scene here. It was designed by Haigh Jamgochian.

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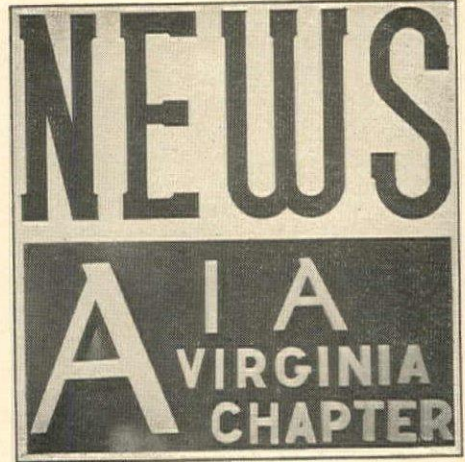
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BYRON R. DICKSON, JR.

Born March 21, 1939 in Roanoke, he graduated from Salem's Andrew Lewis High School, and received a Bachelor of Architecture degree from the University of Virginia in 1962. A veteran of the U. S. Army Medical Service, he has been a draftsman and designer for Thompson and Payne in his native city for the past year-and-a-half.

DANIEL C. DILLS

A native of Washington, where he was born September 7, 1940, Dills has been a draftsman with the Norfolk firm of Konikoff & Kennedy since March, 1965. Following his graduation from Norview High School, he attended the U. S. Army Construction Drafting School at Ft. Belvoir, and later studied for a year at Old Dominion College in Norfolk.

(Continued on page 9)

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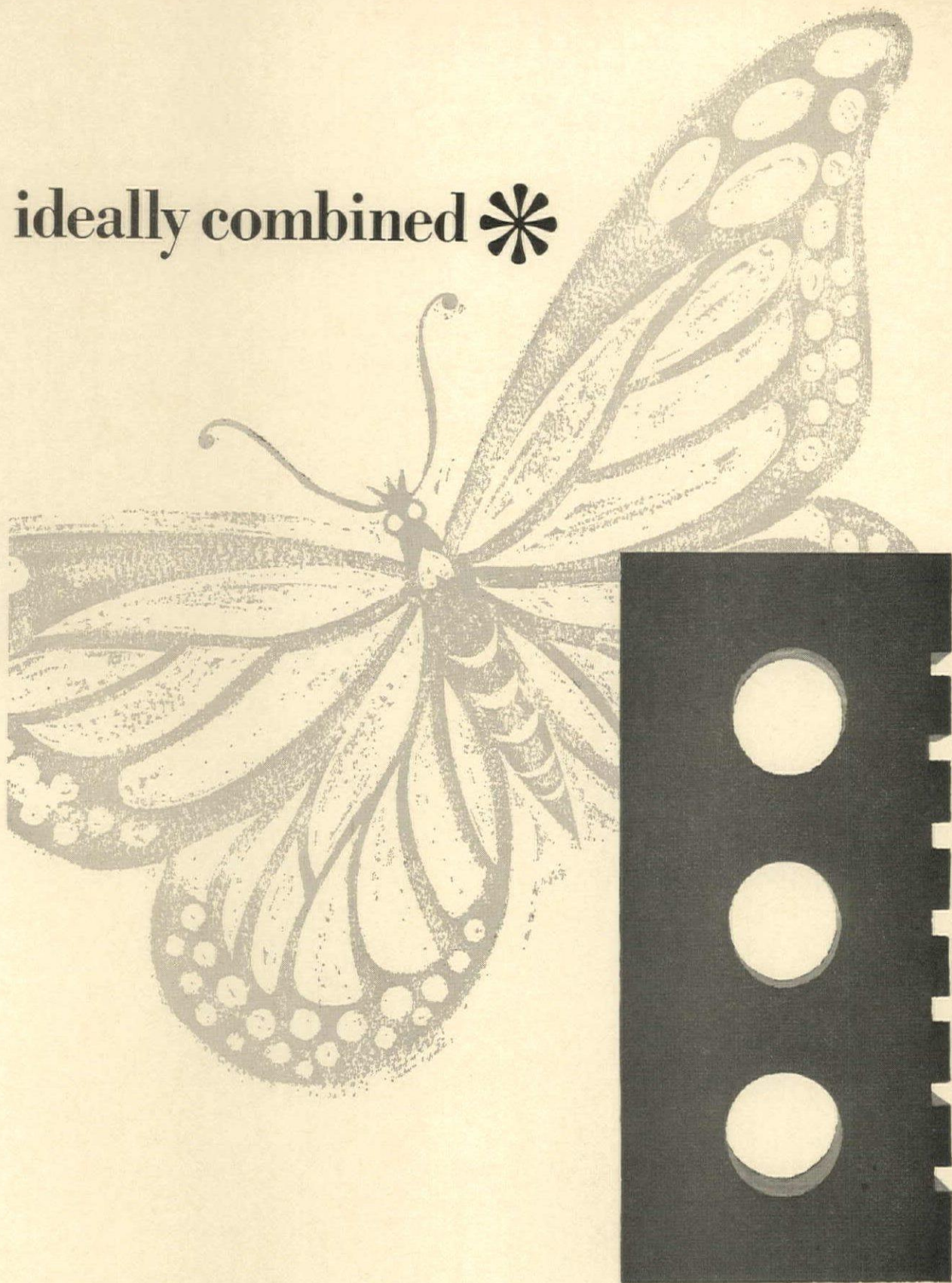
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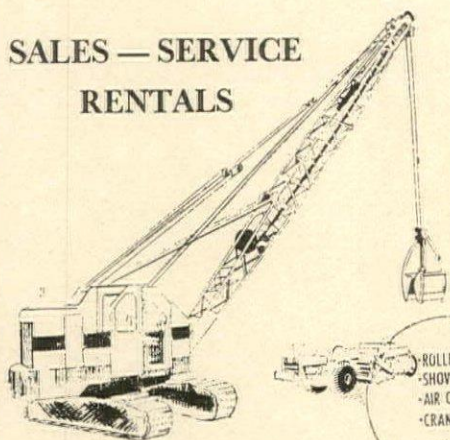
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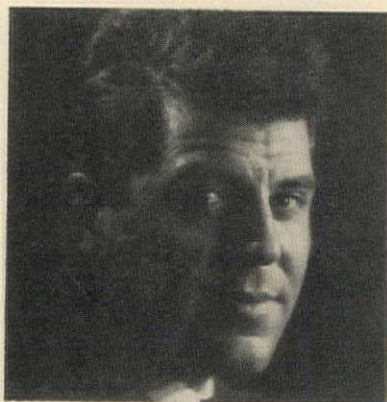
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(Continued from page 6)

RONALD B. DONATI

Educated at the Martinsville Extension of the University of Virginia and at the Richmond Professional Institute, Donati is a native of Roanoke. He is currently a draftsman for David Warren Hardwicke and Associates in Richmond, where he has been since last April. He was born September 29, 1944.



OLIVIO C. FERRARI

An assistant professor at Virginia Polytechnic Institute for the past year, Ferrari was born in Langendorf, Switzerland, February 7, 1931. His education was at the Technical School for Architects in Solothurn, Switzerland where he received a First Class Honor Degree, and at the Hochschule fuer Gestaltung Graduate School in Ulm, Germany, where he obtained a Master's Degree.

JAMES E. GEHMAN

After two years of summer employment with Oliver and Smith in Norfolk, Gehman joined that firm as a full-time draftsman this past January. He was born in Norfolk, April 22, 1944, and graduated from high school in Bethesda, Maryland. He attended Pennsylvania State University for four years.

(Continued on page 79)

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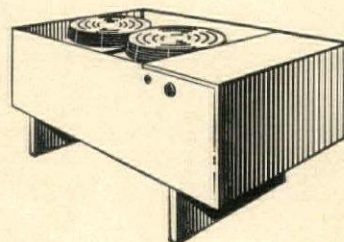
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THE WOODY FUNERAL HOME

BALLOU & JUSTICE, Architects & Engineers

Torrence Dreehin & Assoc.—Structural Engineers

Kenneth Higgins—Landscaping

Leo T. Griffin—Electrical Engineer

William T. Munford—Interior Decorator

THE WOODY FUNERAL HOME, founded in 1905 by Henry W. Woody, moved into its new facility in April of this year. Today, ownership-management of the company is under the direction of Aubrey S. Duncan, president; William E. Robertson, vice-president, Fred G. Sisk, vice-president and J. Clark Anderson, secretary.

This is the first garden-type funeral home to be constructed in the area. Located on an attractive and easily accessible piece of property on East Laburnum Avenue in the northern section of Richmond, this contemporary building of red brick and off-white stone trim was designed by Ballou and Justice, Architects & Engineers of Richmond.

The function of the structure is effectively defined by the serenity and dignity of the ascending spire of the domed chapel, the choice of earthy materials used in the design, and complementary harmony of the landscaping.

Fire, earth and water — fundamental elements of nature — are represented on the exterior by the "Eternal Flame" which rises from a bronze sculptured pedestal centered in a large reflecting pool and by intimate garden vistas and pleasant forms of trees and shrubs. Low plantings on the exterior of the side entranceway, of glass, are repeated on the interior and the effect of bringing nature indoors is amplified. In continuance, the visual interest is heightened by a pool surrounded by plants and a cushioned area in the center of the large lounge.

The fully carpeted lounge contains the reception area and the various furnishings and wall coverings are in warm and vibrant colors. The pool with its tranquillizing movement of water establishes a dignity and calmness in this lounge off of which is located the "Garden Suite of Parlors" consisting of the Azalea, Camellia and Holly Rooms.



INTERIOR OF CHAPEL

The attractively furnished parlors have a garden accent as their large, draped windows open onto semi-circular shrubbery enclosures in which statuary and sculptured ornaments are featured. These exterior areas are softly lighted at night and visible from within the parlors. Several of the parlors off of the chapel are provided with natural daylight from large openings in the ceilings. At night the same effect is achieved by means of artificial, concealed lighting in these openings.

For the convenience of the families and visitors, a coffee lounge has been provided, and this in turn opens onto an outside patio which may be used in good weather.

The Main Chapel seating over two hundred, and expandable as the need arises to seat approximately four hundred, has a high and impressive ceiling formed by laminated wood trusses which frame the roof and extend to the floor. In the shape of an octagon, the chapel is lighted by means of cathedral glass from the low roof areas surrounding the chapel to the underside of the chapel roof, and further lighted by means of indirect lighting. The apex of the ceiling is capped by a cupola spire which extends some forty feet above the roof of the chapel and is visible from the exterior at some distance.

In the design and decorating of the new Woody Funeral Home the concept has been to eliminate sadness and depression and to create an atmosphere of beauty and serenity. The main departure from the basic older type of funeral home is in the building-wide use of daylight and color, and the general "open" feeling to functional traffic patterns.

A spacious family room, adjacent to the chapel, is designed to serve as another parlor when necessary. The same color scheme as the chapel is repeated, and it is the only room that has antique furniture, providing a contrast with the contemporary feeling found elsewhere in the Home.

The Selection rooms are located in such a manner that the family may discuss the necessary arrangements in complete privacy.

Access for delivery of floral arrangements and the proper recording of information pertaining to them, is accomplished from an area not accessible to the public but convenient to all parts of the Home.

The Embalming room with its tiled walls, lighting which may be dimmed or brightened as required, and modern equipment is one of the finest in this area.

Environmental control, throughout all seasons of the year, is furnished through a high velocity dual duct system which provides for rapid fluctuation of internal occupancy.

The building and its improvements to the property were completed the first of May, 1966 at a cost of approximately \$400,000.

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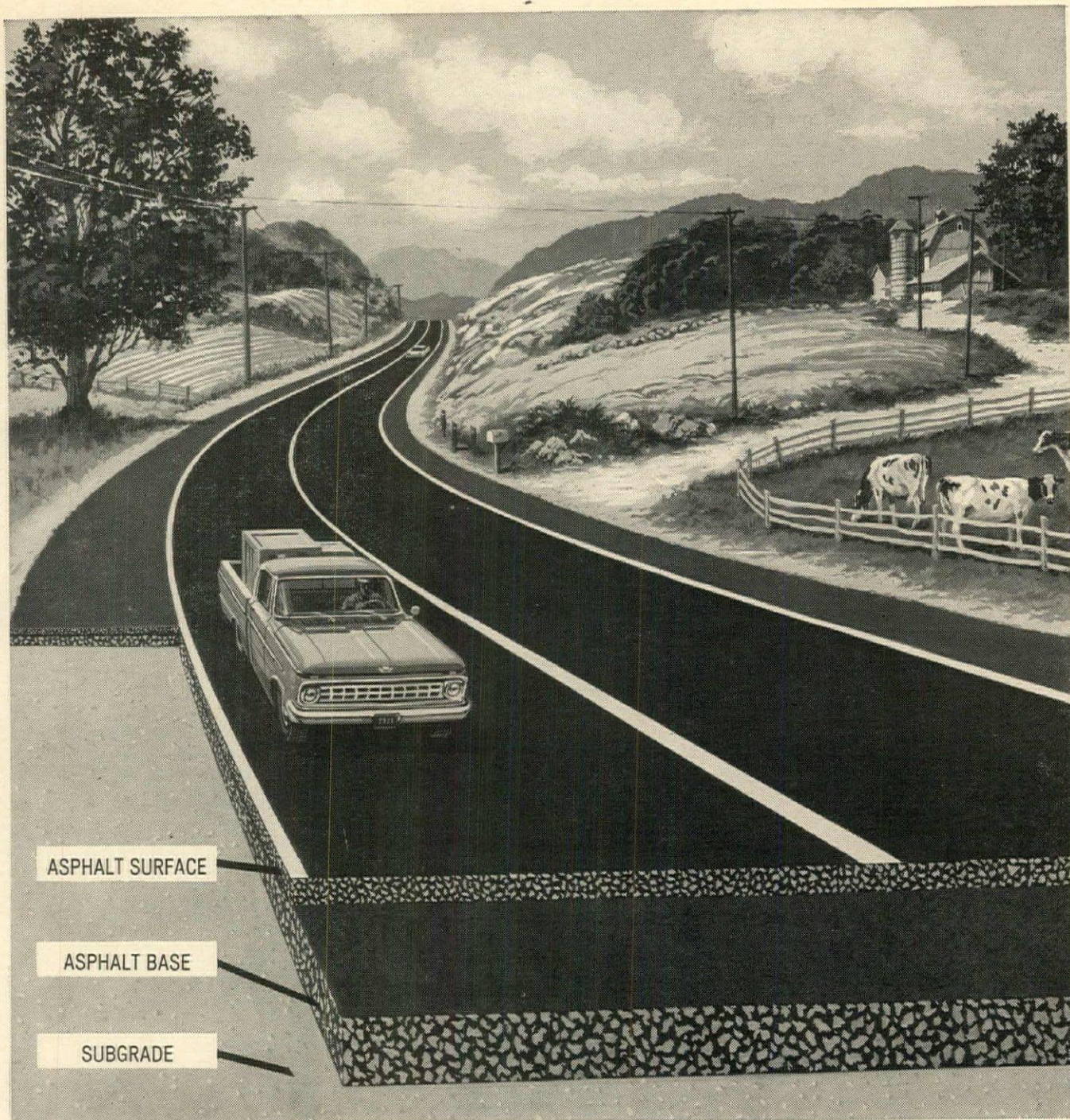
Jas. Fox & Sons, Inc., general contractor, foundations, concrete, carpentry; E. G. Bowles Co., excavating; Southern Brick Contractors, Inc., masonry; Liphart Steel Co., Inc., steel; Bowman Steel Corp., Pittsburgh, Pa., steel roof deck; Unit Structures—Koppers Co., Pittsburgh, Pa., laminated arches; N. W. Martin & Bros., Inc., roofing; Economy Cast Stone Co., stone work; H. Becksteffer's Sons, windows (wood), millwork; Spencer Industries, Philadelphia, Pa., bronze eternal-flame holder; Gayle S. Mann, Jr. & Co., reflecting pool; Allied Glass Corp., glass, glazing & aluminum entrance work; W. R. Stansbury & Brother, painting, plastic wall finish; E. S. Chappell & Son, Inc., weatherstripping; John H. Hampshire, Inc., acoustical, resilient tile; John G. Duggan, Inc., plaster; General Tile & Marble Co., Inc., ceramic tile & slate floor; J. S. Archer Co., steel door frames; W. L. Wachter, lighting fixtures, electrical work; J. W. Bastian Co., Inc., plumbing fixtures, plumbing, air conditioning, heating, ventilating; Pleasants Hardware, hardware; Lyttle and Barnes Construction Co., Inc., septic tank; Powers and Anderson, embalming equipment and organ by The Abby Organ Co.



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THE LAFAYETTE YACHT CLUB, completed in the spring of 1961, is a one level, modified finger plan of contemporary design by Oliver and Smith, Norfolk architects, and incorporates a variety of resort-type facilities for social and recreational pleasure.

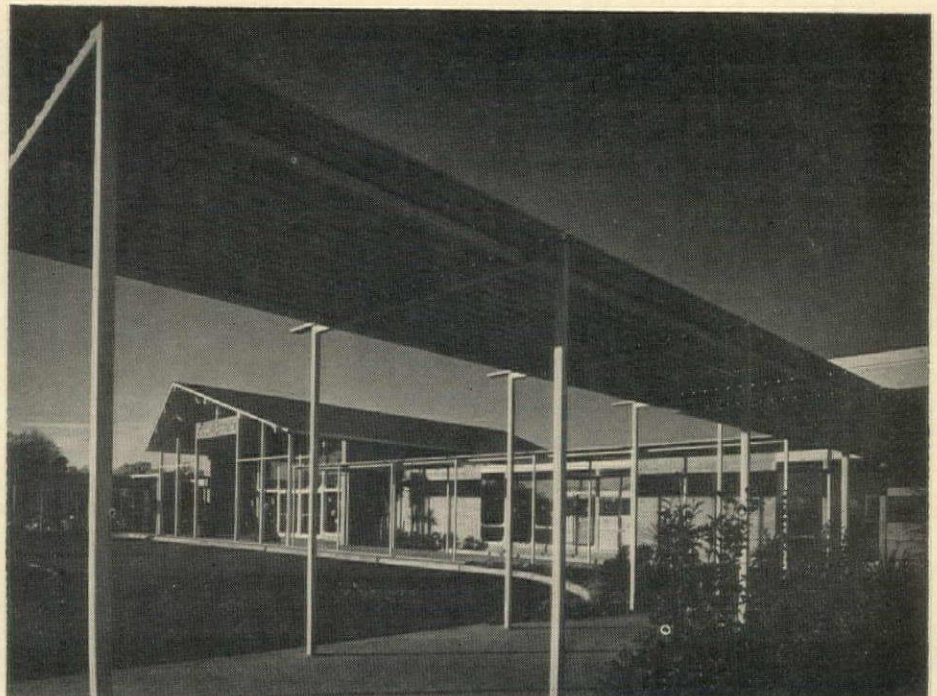
It is located just off Granby Street on the Lafayette and East Haven Rivers and is within minutes of downtown Norfolk. Nearby docking facilities make it a perfect club for yachtsmen and parking for 300 cars is provided for them, for other members and for guests. A marine store, beauty shop, barber shop, health club, target range, library and writing lounge combined with the other facilities, all under one roof, offer unlimited services for luxurious relaxation.

The facility is U-shaped and consists of a main building 187'-6" x 200', with wings measuring 56'-8" x 109'-8" and 75'-2" x 106'. It features masonry construction, with a built-up roof, steel windows, air conditioning, and flooring of wood, terrazzo and vinyl. ●

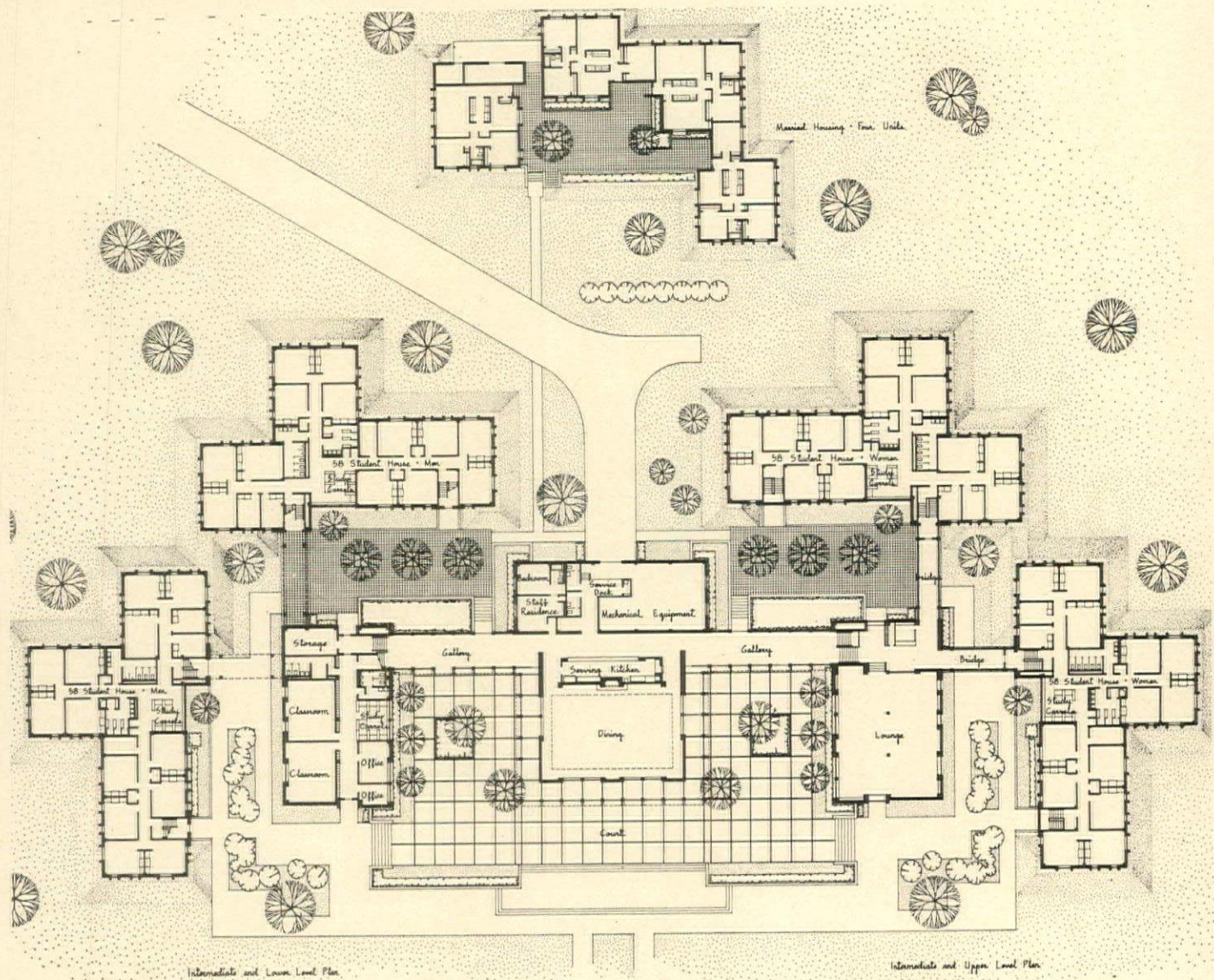
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From Norfolk: Lindemann Construction Co., general contractor, excavating, foundations, concrete, masonry and carpentry; Globe Iron Construction Co., Inc., steel, steel roof deck; Virginia Sheet Metal & Roofing Co., Inc., roofing; Hall-Hodges Co., Inc., windows; Pittsburgh Plate Glass, glazing; Harry E. Paul, Inc., painting; Ferrell Linoleum & Tile Co., Inc., ceramic tile, terrazzo; Grover L. White, Inc., resilient tile, wood flooring; Austin Electric Co., lighting fixtures, electrical work; Kemp's Plumbing & Heating Corp., plumbing fixtures, plumbing, heating, ventilating; Joseph S. Floyd Corp., air conditioning; and Door Engineering Corp., folding doors.

Others were: Ford Pile Foundations, Inc., Virginia Beach, piling; A. D. Stowe, Portsmouth, acoustical plaster and Burton Lumber Corp., Chesapeake, millwork.



The Academic Village:



VIRGINIA WESLEYAN COLLEGE—NORFOLK

SHRIVER & HOLLAND — PERKINS & WILL — Architects

FRAIOLI-BLUM-YESSELMAN—Consulting Engineers—Structural

MATHEW J. THOMPSON, III—Consulting Engineer—Mechanical

WEBSTER M. CHANDLER, JR.—Consulting Engineer—Electrical

W. H. BELANGA & ASSOCIATES—General Contractor

The first phase of construction of Virginia Wesleyan College has been completed and is now in operation with commencement of the initial freshman class of students.

The Virginia Wesleyan College is a four-year, liberal arts, co-educational, campus-type college now being developed under Methodist sponsorship. Located in the Tidewater area of Virginia, it is the first new Methodist college to be established in the state for over fifty years.

The site, consisting of over 300 acres, is wooded and cultivated farmland located in both the city of Norfolk and the city of Virginia Beach. The boundaries of the site are well defined by both natural and man-made barriers which serve to buffer the central area of the campus from surrounding development. Bordering the site on the north and west is Taylor Lake, owned by the city of Norfolk, across which

the developed campus will be visible from Interstate 64. The lake, woods and fields, which will surround the campus, provide an appropriate scenic setting as well as opportunity for recreational development.

The college is designed to accommodate an initial four-year enrollment of 1,200 students, most of whom will reside on campus, and it will emphasize the importance attached to the art of living as well as the breadth of academic training. Teaching spaces not requiring specialized equipment are designed as part of the living areas.

The Academic Village, one of which is now completed, is conceived as a group of seven interconnected buildings for student living and learning. The central building of the village is the dining hall which is a single-story structure framed in reinforced concrete and structural steel. The raised roof

above the dining area is sheathed in copper. In addition to dining hall and serving kitchen, this unit contains the central service and equipment space for the entire village. This dining hall is connected by wide enclosed galleries to two combination classroom-lounge buildings, one located on either side. The classroom-lounges are two-story reinforced concrete structures faced with brick and cast stone. The first floor contains toilets, student lockers, study alcove, two classrooms, a seminar room, faculty offices, and a storage room. The second floor contains a lobby area with information-reception desk and mail room, and a large student lounge space. Each classroom-lounge building is connected to two "houses" by overhead enclosed bridges. The "houses" are two-story reinforced concrete structures.

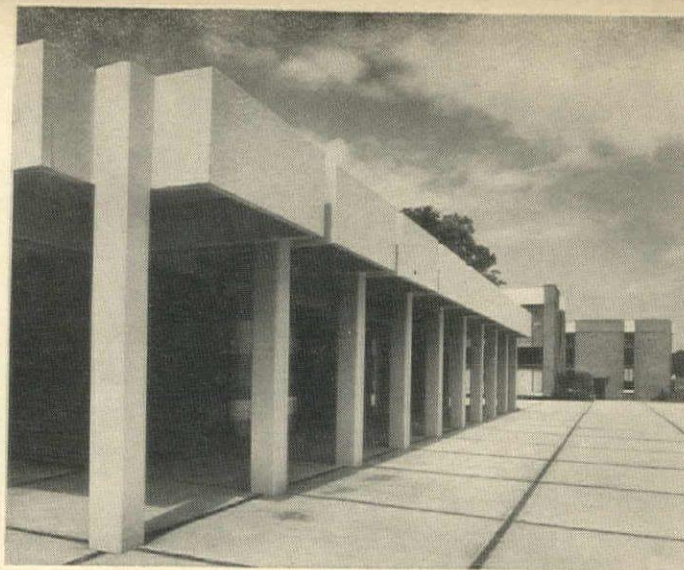
The plan places special emphasis on the grouping of students into ideally sized intramural units of 58 students known as "houses." Each of these houses is a complex of smaller groups of from 8 to 12 students. Four houses with their classroom and study spaces, dining room, lounges and spaces for married students or faculty, are grouped together to form a "village"—so named after Thomas Jefferson's Academic Village concept employed in the plan of the University of Virginia. Each village houses 232 resident students and has study and locker spaces for commuter students to provide total accommodation for 300 students. Each village will have its own student government and tier of student responsibilities.

Three additional villages are planned and will be arranged around a future core of central facilities which will complete the accommodations for the 1,200 students planned. The core of facilities will include library, student union, gymnasium, Chapel, administration, fine arts, science and service buildings. The building elements are grouped around a pool and terraces to provide open and closed courts for informal gathering of students and faculty. These facilities, which together seek to provide a setting for intellectual, spiritual and physical development, are related and connected by covered walks. The library and union are linked by a bridge-lounge available to each building for informal reading and lounge activity.

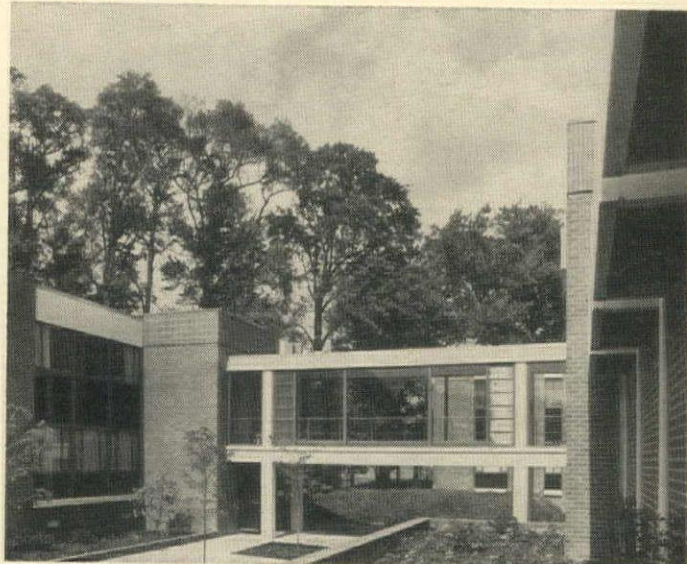
A perimeter road system will provide access to the campus and is arranged to separate student, faculty and visitor traffic from service traffic. The campus plan is scaled for the pedestrian with a maximum walking time between buildings of four minutes and provides complete separation between pedestrian and vehicular traffic. Central heating and air conditioning systems are provided for each village and the future-planned core group.

Subcontractors & Suppliers

From Norfolk: W. H. Belanga & Associates, Inc., general contractor, foundations, concrete and carpentry; Chesapeake Steel, Inc., steel; Va. Sheet Metal & Roofing Co., Inc., roofing, waterproofing; Hope's Windows, Inc. (Southern Metal Products, Inc.), windows; Building Supplies Div. R. F. Trant Distributing Corp., glazing; Shaw Paint & Wall Paper Co., Inc., painting; O'Ferrall, Inc., acoustical, resilient tile, wood flooring; A. C. Gordon & Co., plaster; Grover L. White, Inc., ceramic tile; Manson-Utley, Inc., steel doors & bucks; and Seaboard Paint & Supply Co., Inc., hardware. Other firms were: Grier S. Johnson, Inc., Virginia Beach, excavating; Welch Pile Driving Corp., Virginia Beach, piling; Kramer Masonry Construction, Chesapeake, masonry; Economy Cast Stone Co., Richmond, stone work; Miller Manufacturing Co., Inc., Richmond, millwork; E. C. Ernst, Inc., Virginia Beach, lighting fixtures & electrical work; Nelson & Smith, Inc., Chesapeake, plumbing fixtures, plumbing, air conditioning, heating, and ventilating.



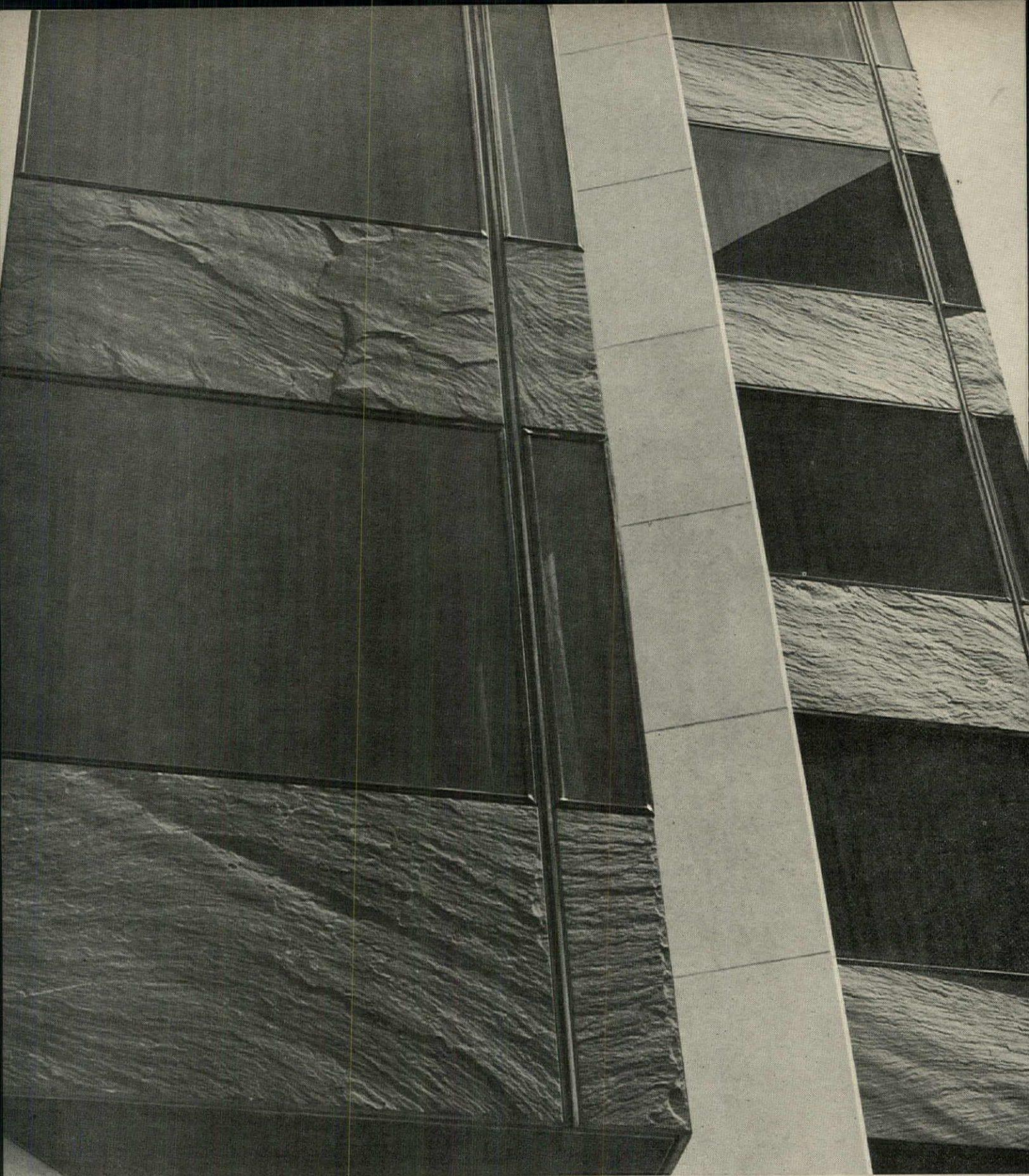
SHOWN ABOVE, DINING AREA WITH LOUNGE & CLASSROOMS IN BACKGROUND. BELOW, COVERED BRIDGE BETWEEN CLASSROOM UNITS.



ABOVE, COURTYARD BETWEEN UNITS.

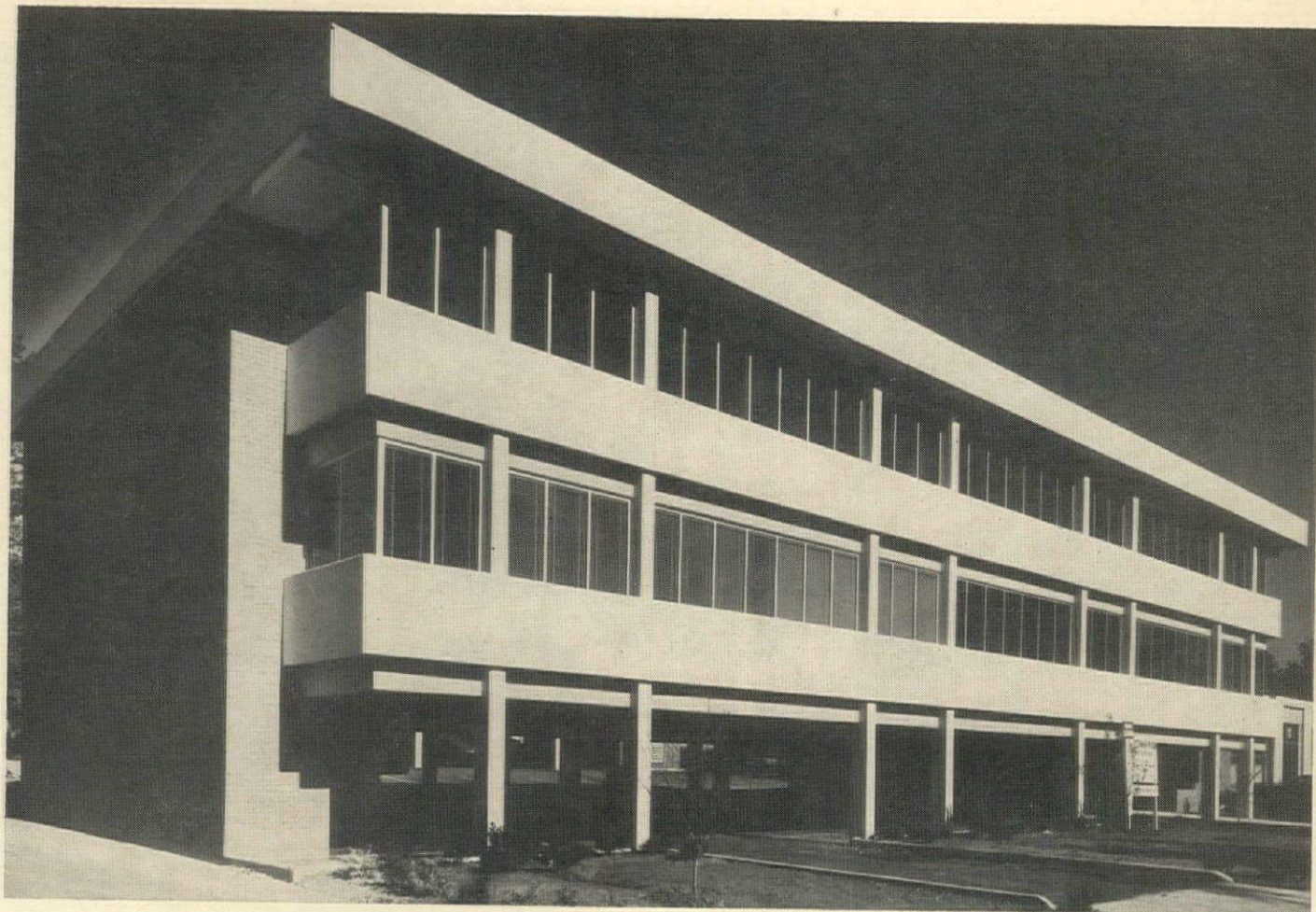
BELOW, OVERALL VIEW OF FIRST PHASE OF CONSTRUCTION.





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WEST END OFFICE STRUCTURE—RICHMOND

EDWARD F. SINNOTT & SON, AIA—Architects

JOHN W. RYAN, JR., AIA—Associated Architect

THOMAS A. HANSON ASSOCIATES
Structural Consultants

WAGNER & JONES
Mechanical & Electrical Consultants

THORINGTON CONSTRUCTION COMPANY
General Contractors

■ Fitzhugh Plaza Office Building was designed to cope with problems of current office building needs where the building is financed by one organization, controlled by another, and destined to house a complex of unrelated groups, yet must be economically feasible and esthetically stimulating to all involved.

The building is 125' in length and 60' in depth. It is situated on a 125' x 125' lot surrounded by other office building structures. Most of the ground level is given over to parking and the two upper levels accommodate the tenants' office suites.

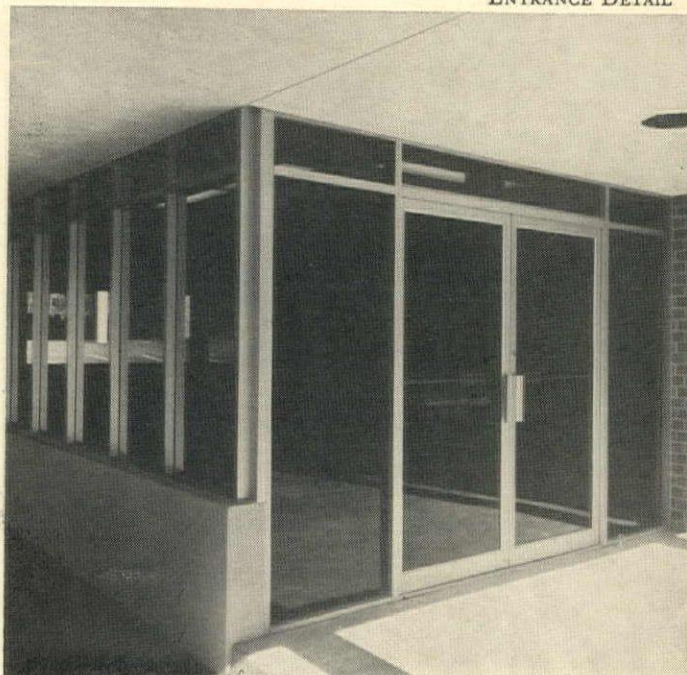
The rectangular building is supported by three rows of columns. To avoid having the many columns obstruct the spaces in the office suites, the center row of columns has been located to work with the central corridor partitions. Open space and the greatest freedom of tenant partition-layouts result.

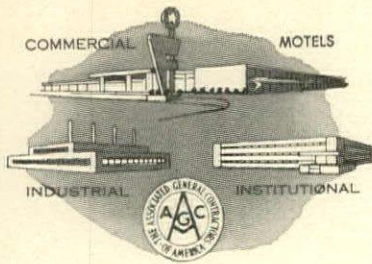
Interior finishes employ the use of vinyl asbestos floor tiles, vinyl base, and partitions which are painted thin-coat plaster on wallboard and metal studs.

Partitions separating office suites from public spaces and adjacent suites are acoustically sound conditioned. Ceilings are suspended acoustic tile with recessed lighting troffers.

(Continued on page 89)

ENTRANCE DETAIL





Wagoner Construction Co., Inc.

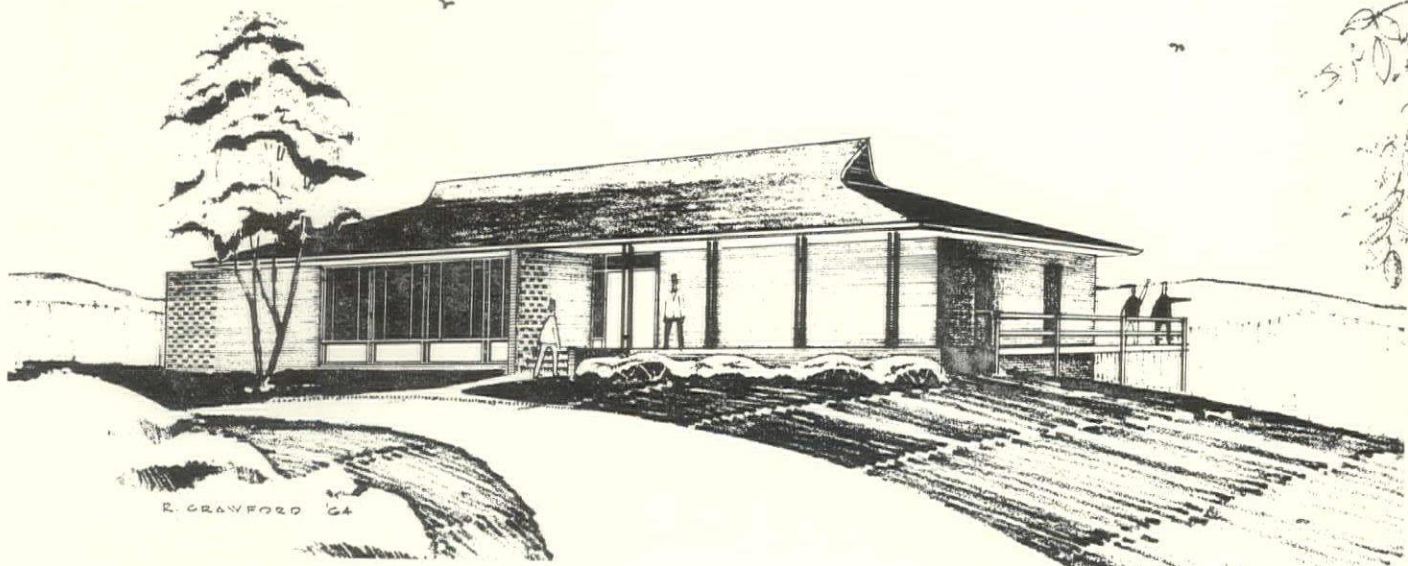
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AMERICA HOUSE MOTOR INN
PETERSBURG, VIRGINIA

MARCELLUS WRIGHT & PARTNERS
Architects



Round Meadow Country Club

CHRISTIANSBURG

J. GARRY CLAY—Architect

BOONE & WALSH, INC.
General Contractors

A KNOLL overlooking the golf course and swimming pool provided the ideal location for a split-level clubhouse for Round Meadow Country Club. The building, which contains 7,740 square feet of floor space provides facilities for more formal activities on the upper level, while the lower level caters to sports and less formal activities.

The exterior of the building is of frosty-rose brick laid in running bond pattern, with some of the bricks recessed to form an interesting pattern. A picture window, with "Glas-Weld"

VIRGINIA RECORD

panels below, adds interest to the front. The recessed entrance, porch and foyer feature greenstone flooring laid in random pattern. The porch, which is covered by the overhang of the roof, has wrought iron columns and rails.

A multi-purpose room on the upper level has sliding glass doors opening onto a Torginol sun deck, at the rear, overlooking the activities area. A ladies' lounge and snack bar are also features of the upper level.

The lower level houses locker rooms, Pro shop, showers, rest rooms, dining

room and a bar which opens out onto the Ninth Hole.

The A-frame roof is given an interesting treatment by the vents in each end, and is covered in driftwood gray asphalt shingles.

The interior walls and ceiling of the upper level are dry wall with indirect lighting. The lower level features an acoustical ceiling.

The floors in the multi-purpose room are parquet, while other areas on both levels are vinyl asbestos tile. Ceramic tile is used for walls and wainscots in rest rooms and for floors in showers.

Subcontractors & Suppliers

From Radford: Boone & Walsh, Inc., general contractor; H. T. Bowling, excavating; T. L. Kirby, roofing; Kirby H. Phillips, painting; Marshall Elliott, lathing & plastering; Central Lumber Co., Inc., millwork; Star Electric Co., lighting fixtures & electrical work; and Harris Plumbing & Heating Co., plumbing fixtures, plumbing, heating & ventilating.

From Roanoke: Southern Building Products Distributors, Inc., steel & handrails; Timber Truss Co., Inc., structural trusses; Southern Roof Deck Co., Inc., acoustical; Charles J. Krebs Co., resilient tile & wood flooring; Byrd Tile & Terrazzo Co., terrazzo & Torginol Deck; and Graves-Humphreys, Inc., hardware.

Others were: Concrete Products Co., Inc., Christiansburg, concrete; and Kelley Kennedy (Wythe Masonry), Pulaski, masonry.

NOVEMBER 1966

PAGE NINETEEN



FRANK



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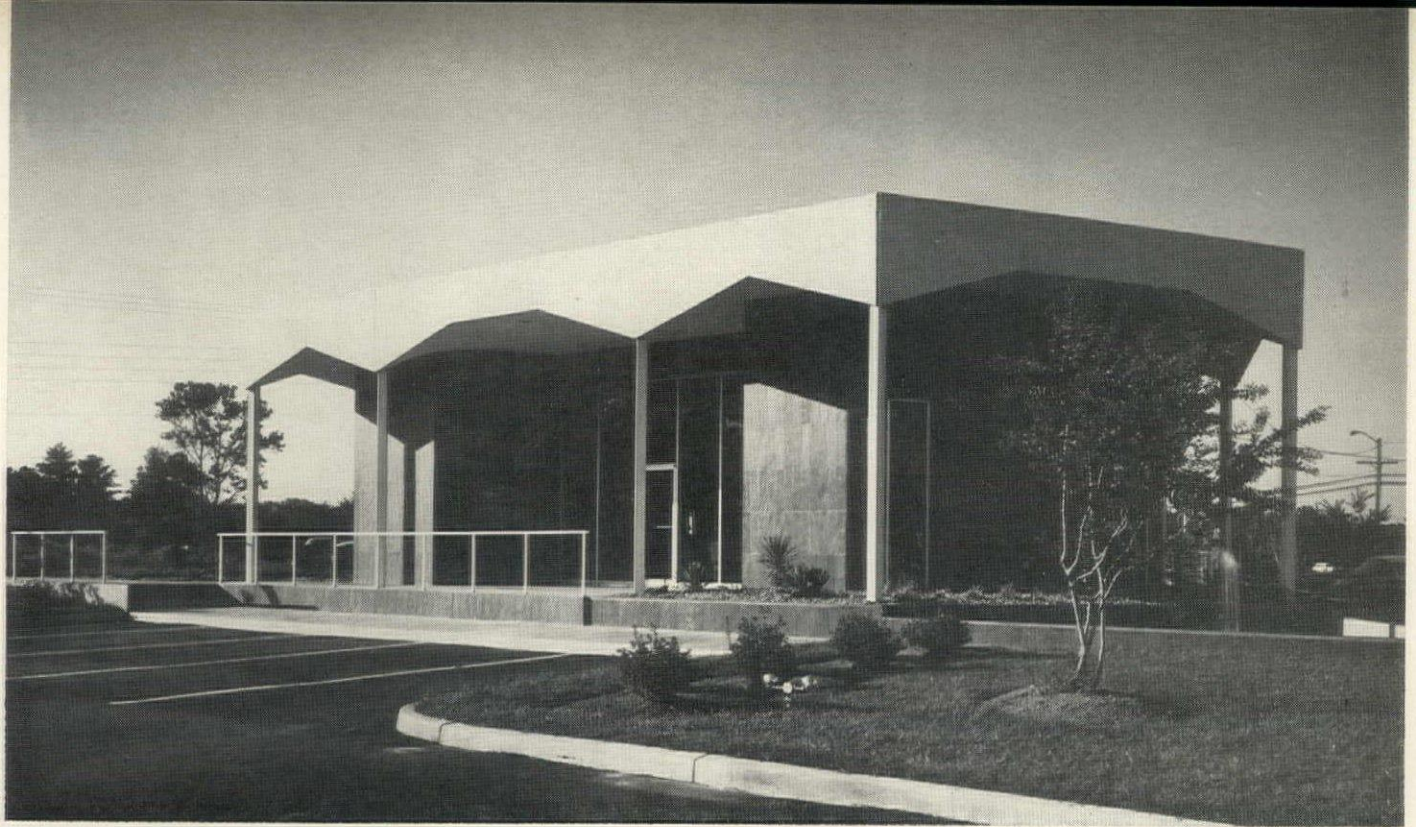
▲ The Bedford Municipal Building will be located on municipal property east of the Bedford County Court House. This new building will be a three-story structure—basement, first and second floors—and will house all of the city's offices. Because the lot slopes to the rear, the lower floors will have ground access from the rear parking area and will house Police, detention cells, communication, recreation, mechanical facilities and record storage. The first floor will have offices for the Mayor, Treasurer, City Manager, Building Inspector and Engineer as

well as a large conference room. The second floor will house the Council Chamber, Judge and Jury Rooms with provision for future expansion.

The building will be completely air conditioned, fire-safe construction.

One feature of the building will be the use of local rose-quartz in a decorative panel surrounding the large entrance window and door. The same material will be used for the cheek blocks on each side of the entrance steps.

Construction is expected to begin in November with completion in November 1967. ▲



ATLANTIC PERMANENT SAVINGS AND LOAN ASSOCIATION—CHESAPEAKE

OLIVER & SMITH, AIA — Architects

● The Atlantic Permanent Savings and Loan Association, Chesapeake Branch, is situated on a triangle of land formed by the intersection of Route 17 and Churchland By-Pass. The edifice is a striking contrast to its surroundings.

Through the use of a central regular hexagon core lobby, three appended elongated hexagonal work areas and a reflecting pool and fountain all resting on a triangular podium, the architects, Oliver and Smith, have achieved the

desired requirement of being seen and approached from any direction.

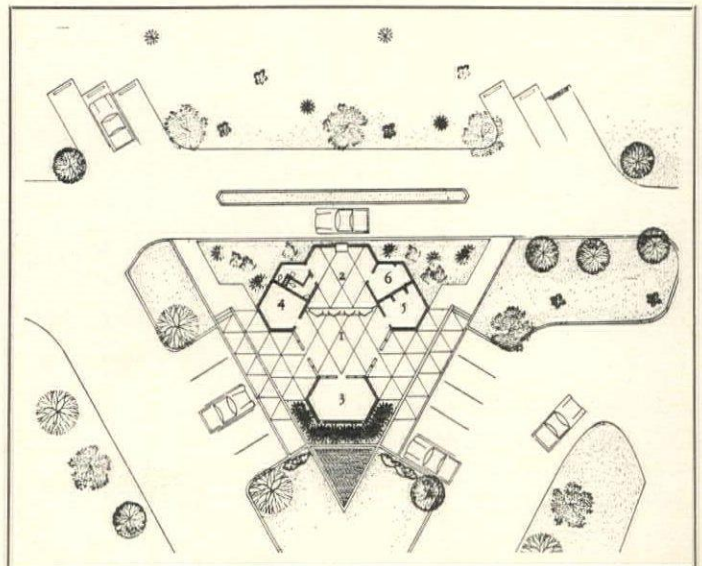
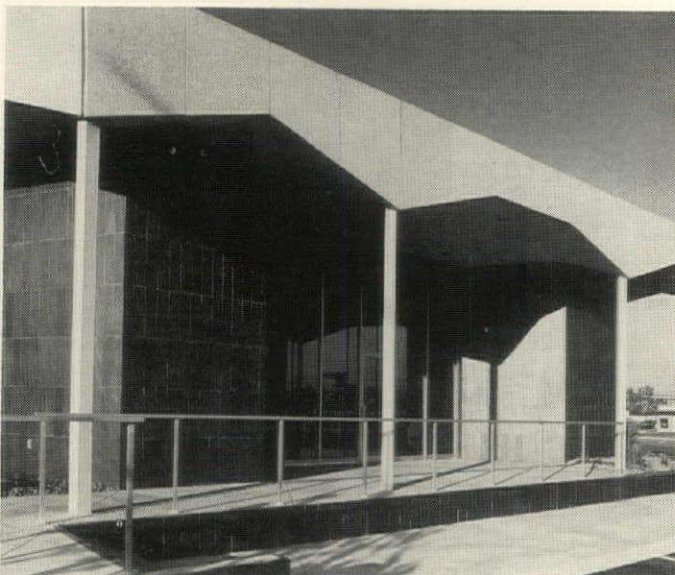
The plan is unusual with an exterior of natural slate veneered walls, brilliant white cast stone irregular fascia, a columned promenade and a deep roof overhang. Shadow patterns are interesting.

A drive-in tellers window and ample parking provide adequate conveniences for a motorized public.

Meredith Construction Co., Inc., of Norfolk, was the general contractor and also did the insulation work. Among the subcontractors and suppliers other

Norfolk firms were: Snow, Jr. & King, Inc., masonry; Chesapeake Steel, Inc., steel, structural and miscellaneous, steel roof deck; Roof Engineering Corp., roofing and sheet metal; Ajax Company, Inc., stone work, slate, terrazzo, ceramic tile (American Olean); Southern Block & Pipe Corp., windows; Acme Glass Service, Inc., window walls, glazing and storefront; Shaw Paint & Wall Paper Co., Inc., painting, plastic wall finish; Jayen Tile Corp., resilient tile; Elliot and Co., Inc., millwork, cabinet work; Charles W. Davis, lighting fixtures, electrical work; Door Engineering Corp., hardware; Colonial Neon Signs, Inc., permanent signs; Winn Nursery, Inc., landscaping.

From Portsmouth: Portsmouth Paving Corp., concrete curbing and paving; Vincent Harrison Co., carpentry, caulking; J. T. Elev. Jr., acoustical, plastering; W. C. Osborne Plumbing and Heating, plumbing fixtures, plumbing; Pierce Heating and Air Conditioning Co., air conditioning, heating, ventilating. Also, Diebold, Inc., Hamilton, Ohio, teller window.





Holy Family Catholic Church

—PEARISBURG—

ROBERT L. MILLS, A.I.A.
Architect

THE DESIGN of this church, which seats approximately 250 people, is based on the new Catholic Liturgy in which the congregation more actively participates with the Priest during Mass.

The seating surrounds a center Altar, with the hexagonal building conforming to the segmented seating layout. The Altar, in the center of the church, dominates the interior and sits beneath a skylight which features natural light during the day and artificial light at night. The Altar of the Blessed Sacrament projects from a brick wall behind the main Altar.

Lighting in the church is carried out with a hexagonal concept using indirect lights mounted on the steel structure.

The theater-in-the-round concept will allow everyone to sit within six rows of the Altar. This is free standing and constructed of Indiana Limestone.

CONSTRUCTION PHOTO OF THE STEEPLE



ROBERT L. MILLS, A.I.A.,
Architect

Subcontractors & Suppliers

From Bluefield, W. Va.: Aliff & Moore, general contractor, carpentry, painting; Bailey Lumber Co., millwork; and Wysor Electric Co., electrical work, heating.

Others were: Modern Concrete Products, Pearisburg, concrete; Old Virginia Brick Co., Inc., Salem, masonry; Platnik Brothers, Inc., Bluefield, Va., steel; Unit Structures, Morrisville, N. C., roof deck; Tri-State Roofing Co., Charleston, W. Va., roofing; Pittsburgh Plate Glass Co., Roanoke, glazing; Nelson-Roanoke Corp., Roanoke, hardware; and Hiawasee Furniture Co., Madisonville, Tenn., furniture.



VIEW OF THE INTERIOR

The church, completed in June, 1966 at a cost of \$110,000.00, has an exposed steel structure, supported on six concrete piers. Wood decking is exposed on the interior with white marble chips on the roof.

The seats and pulpit were designed by the architect and are supported on steel tubes which carry out the theme of the steel structure.

Translucent glass separates the exposed brick interior walls from the roof and gives the roof a floating effect. Small quantities of stained glass are used in the casement windows placed beside each concrete pier.

Above the Altar and skylight is a steep roof covered with wood cedar shingles. A steel cross painted white is affixed atop this roof. There are six flood lights mounted behind the fascia board which light the roof at night. With the

church located on the highest hill in Pearisburg, it can be seen from several miles away at night.

The fourteen Stations of the Cross are hung on the brick walls. The Stations, carved out of wood, were made by a local artist.

The building is heated by electricity.

Other facilities included are living quarters for the Parish Father and classroom space for teaching. A narthex connects the church with the living quarters. Parking facilities on the grounds will accommodate 60 cars.

Several large trees around the church help to give it a beautiful setting. White marble chips are used around the base of the building and scuppers carrying water empty into drywells of marble chips.

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Mechanical & Electrical Consultants

WILLIAM J. BLANTON
& ASSOC.
Structural Consultants

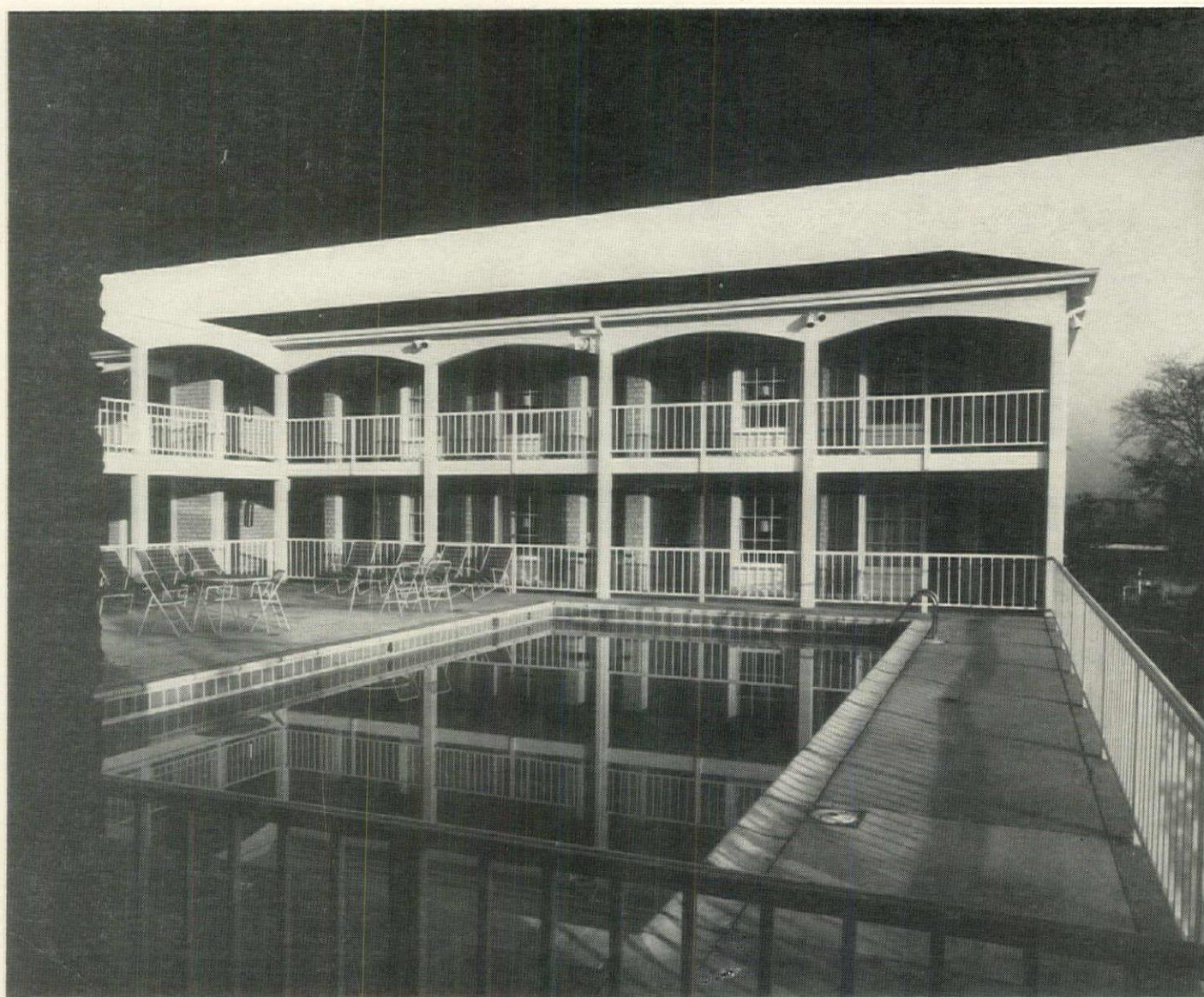
AUSTIN BROCKENBROUGH
& ASSOC.
Civil & Site Consultants

SCHECHTER-LUTH
& ASSOC.
Interior Designers

WAGONER CONSTRUCTION COMPANY
General Contractors



Photo above, exterior of the restaurant, and below, the swimming pool, surrounded on three sides by motel units, is on a high terrace overlooking Interstate 95. Shown on the facing page from top to bottom: the sheltered entrance to restaurant and registration desk is located between motel units and restaurants; a detail of the individual units and bottom photo, the covered walkways which pass the pool at two levels.





THE NEW America House Motor Inn at Petersburg incorporates the results of a three-year study by Richmond Hotels, Incorporated and their architects, Marcellus Wright & Partners.

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AMERICA HOUSE features two basic guest unit plans; one, units with two double beds and the other, rooms (fourteen in number) which can be doubled in size.

THE RESTAURANT at America House was conceived and developed by Marcellus Wright & Partners, long-time architects for the hotel firm.

WHILE, INITIALLY, America House will have 100 units, the property layout and the restaurant size are designed for expansion to at least 200 motel units.

MARCELLUS WRIGHT & PARTNERS—Architects

Subcontractors & Suppliers

From Salisbury N. C.—Wagoner Construction Co., Inc., general contractor; Rico Tile & Marble Co., ceramic tile & quarry tile. R. D. Holderfield, Colonial Heights, grading; Short Paving Co., Petersburg, paving; Federal Glass, Inc., Charlotte, N. C., glass & mirrors; William Dickinson, Falmouth, plaster; Colonial-Hites Co., Columbia, S. C., signs.

And from Richmond: Concrete Structures, Inc., pre-stressed concrete; Whitely, Inc., roofing & sheet metal; W. W. Nash & Sons, Inc., painting; John H. Hampshire, Inc., insulation, acoustical, resilient tile; Rabe Electric Co., Inc., electrical work; Virginia Elevator Co., Inc., elevator; Southern Paving Co., swimming pool; and T. A. Talley, Jr. & Co., mechanical work.



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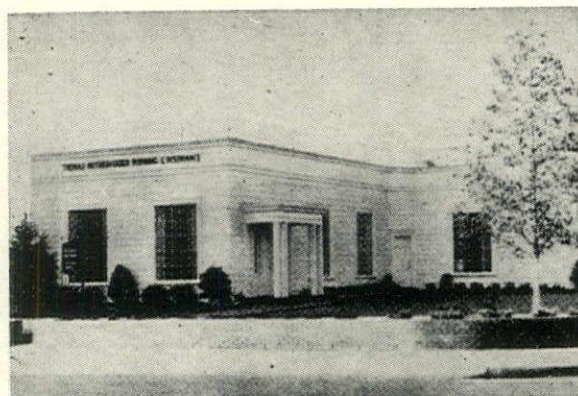
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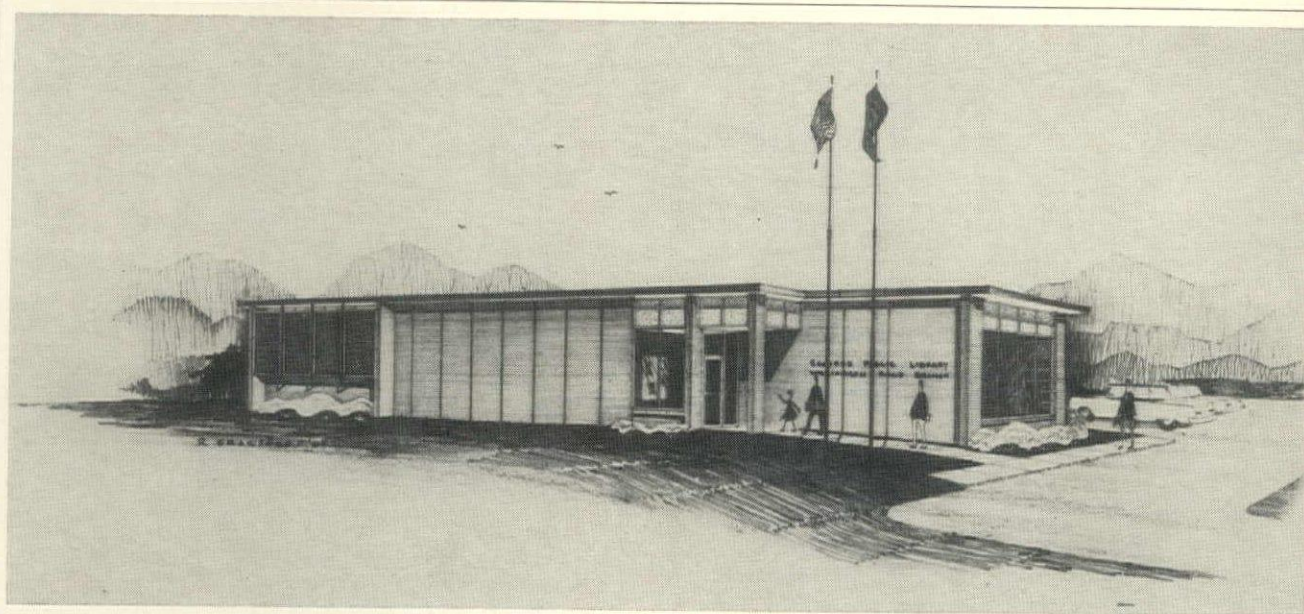
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Roanoke Public Library

Williamson Road Branch

J. GARRY CLAY
Architect

REGIONAL CONSTRUCTION SERVICES, INC. — General Contractor

THE COMPLETION of the Williamson Road Branch Library culminated several years of work and planning by the Civic Clubs and residents of this growing community. The architect, J. Garry Clay, worked very closely with these groups, as well as members of the Roanoke City Public Library, in order to provide a building which would meet the needs of the community, as well as presenting a pleasing appearance.

The building, which contains 3,500 square feet of floor space, is designed to accommodate future expansion with a knockout panel on the west end. Rectangular in shape, with the length facing Williamson Road, the building is basically constructed of frosty-rose brick, with generous areas of glass to provide a light and pleasant interior. Pittsburgh Corning "Intaglio" glass blocks in vertical slits and aluminum

solar screens are used on the west end. Brick, laid in running bond, with recessed panels gives a columnar effect to the front of the building, adding height to the one-story building. The main entrance, with clear glass doors with side panels of clear glass set in aluminum frames, is easily accessible from both the street and the rear parking area.

Black lettering on the solid brick entrance wall identifies the building and adds a note of contrast.

Concrete block is used for the interior walls and partitions and is finished in cream to furnish a background for the walnut finish used on cabinets and book stacks, and the pastel colors used for sofas and chairs, with lively shades of orange, lemon, avocado and aqua upholstery. The floors are of vinyl asbestos in 12-inch squares of "Travertine" by Ruberoid. Ceramic

tile is used for rest rooms and utility areas.

The building is completely air conditioned and contains a "Luminaire" ceiling system which provides illumination as well as air distribution. An intercom system is used for communication and furnishes background music.

The reading rooms and book stacks are arranged in sections to serve adults, young adults and children, with all groups centrally located in relation to the check-out desk.

A staff lounge contains a small kitchen, coat room and rest rooms. The meeting room, which will accommodate eighty people, is located so that it may be used when the main library is closed.

By the skillful blending of materials the architect has created a completely utilitarian building which blends well into the surrounds and represents a definite asset to the community.

Subcontractors & Suppliers

From Roanoke: Regional Construction Services, Inc., general contractor; J. L. Moore, excavating; Webster Brick Co., Inc., masonry supplier; L. R. Brown, Sr. Paint Co., painting; Shields, Inc., Luminaire ceiling and lighting; E. V. Peff & Son, Inc., ceramic tile; Charles J. Krebs Company, vinyl asbestos flooring; Johnson-Vest Electric Corp., supplier of lighting fixtures and air conditioning equipment; Robert H. Layman, electrical work; Noland Company, plumbing fixtures; Weddle Plumbing & Heating, plumbing and heating; Plastic Sign Sales, signs; Lee Hartman & Sons Sound Equip., Inc., sound equipment.

From Salem: Leonard Smith Sheet Metal & Roofing, Inc., roofing; Salam Glass Corp., glazing. Also, R. Coolidge Palmer, Vinton, masonry.

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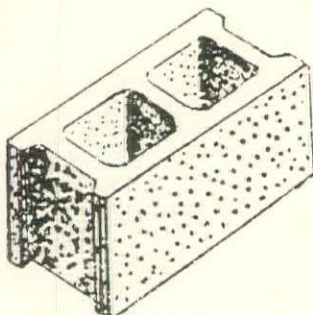


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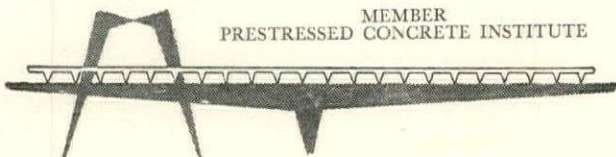
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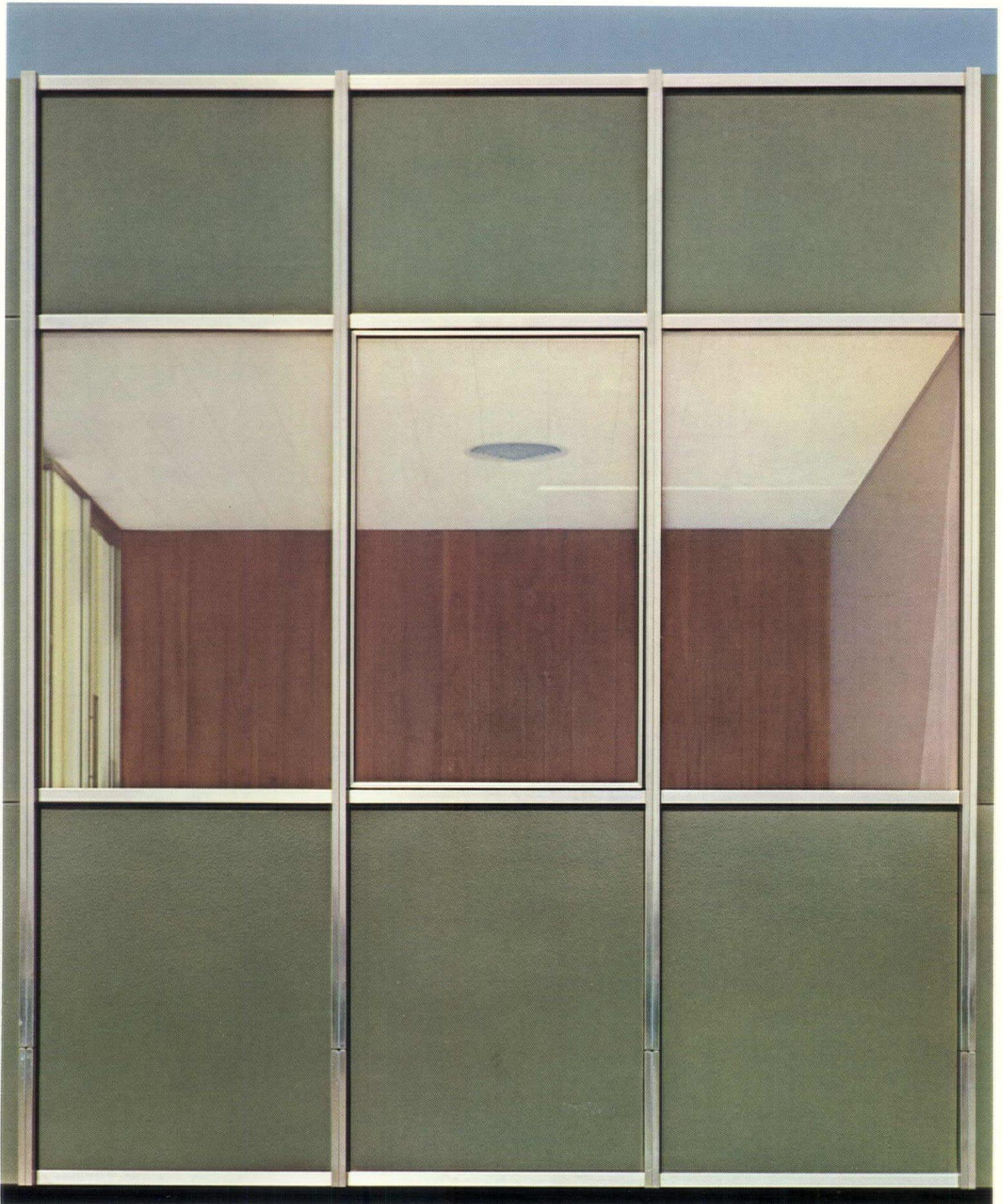
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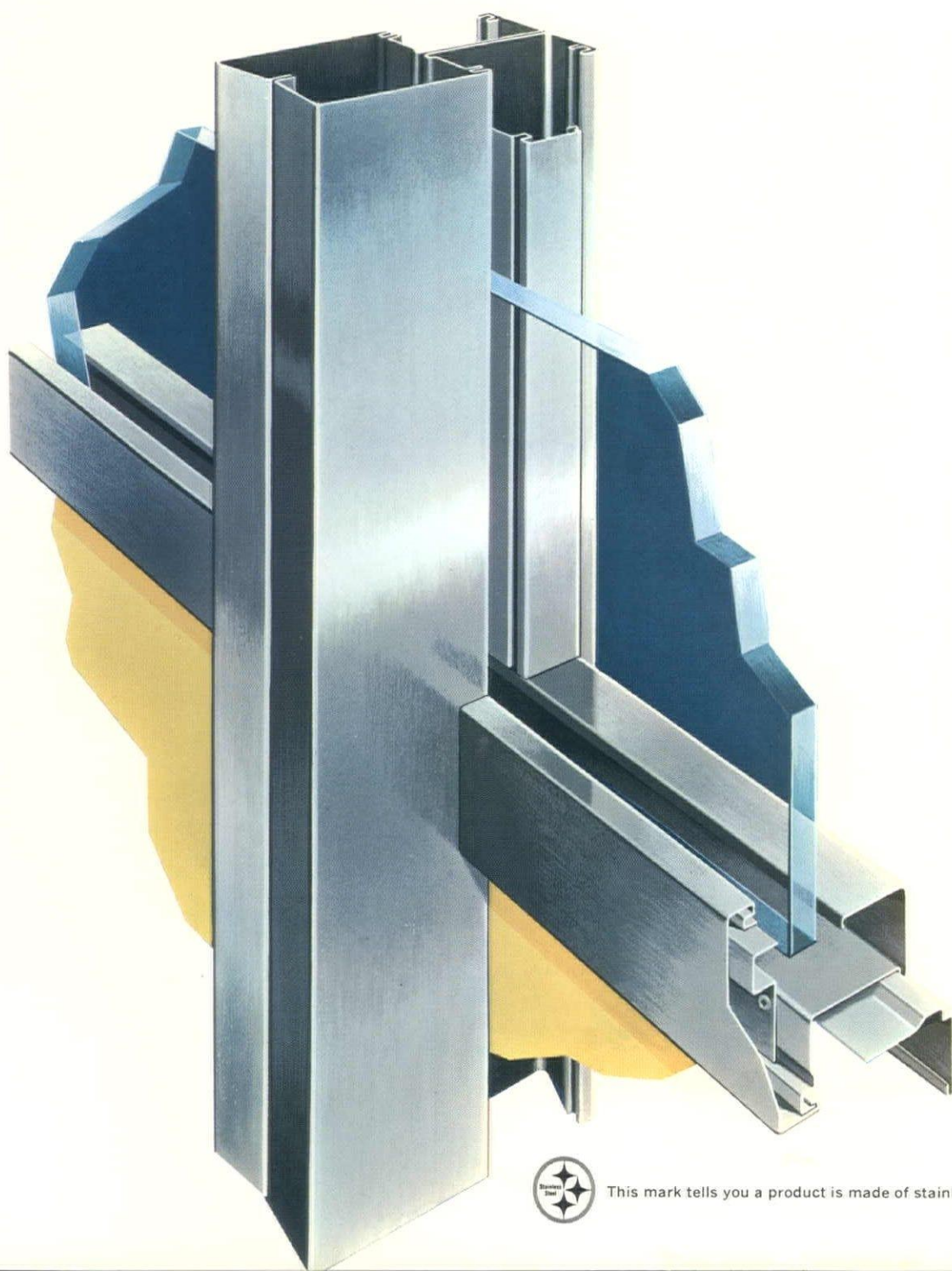
All USS ULTIMET shapes are roll-formed, to make the best use of Type 304 stainless steel's remarkable properties. This permits economic achievements in the structural design, fabrication and erection of stainless steel curtain walls never before possible. Roll-forming also results in closer tolerances than possible with conventional custom manufacturing methods. This is one of the reasons why USS ULTIMET components can be erected more simply and quickly than any previous stainless steel wall framing system.

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Only four roll-formed shapes are required to frame the USS ULTIMET Narrow-Stile Door. A one-piece channel-gasket is fitted around the perimeter of the glass, and the framing members are simply tapped into place. Only one screw in each corner completes the assembly, and a simple adjustment in each corner squares it up. USS ULTIMET Doors accommodate standard locks, hinges and closers and combine maximum visibility with security.

USS Ultimet

Horizontally Pivoted Windows

The USS ULTIMET Horizontally Pivoted Window is attractive and practical. Designed to pivot 360° horizontally for emergency ventilation and ease of cleaning from the interior, it is easy to fabricate and install. Only *one* basic shape is required for the vent, and the basic grid members provide the frame for the sash. The design presents a flush appearance around its entire perimeter, with neat, narrow sight lines. USS ULTIMET Windows are snug and weather-tight and meet the NAAMM test requirements.

USS ULTIMET components are available *now*. Send the coupon today for your copy of the book, "USS ULTIMET Stainless Steel Wall Framing," or contact a USS Architectural Products Representative through your nearest USS Construction Marketing or Sales Office. USS and ULTIMET are trademarks.

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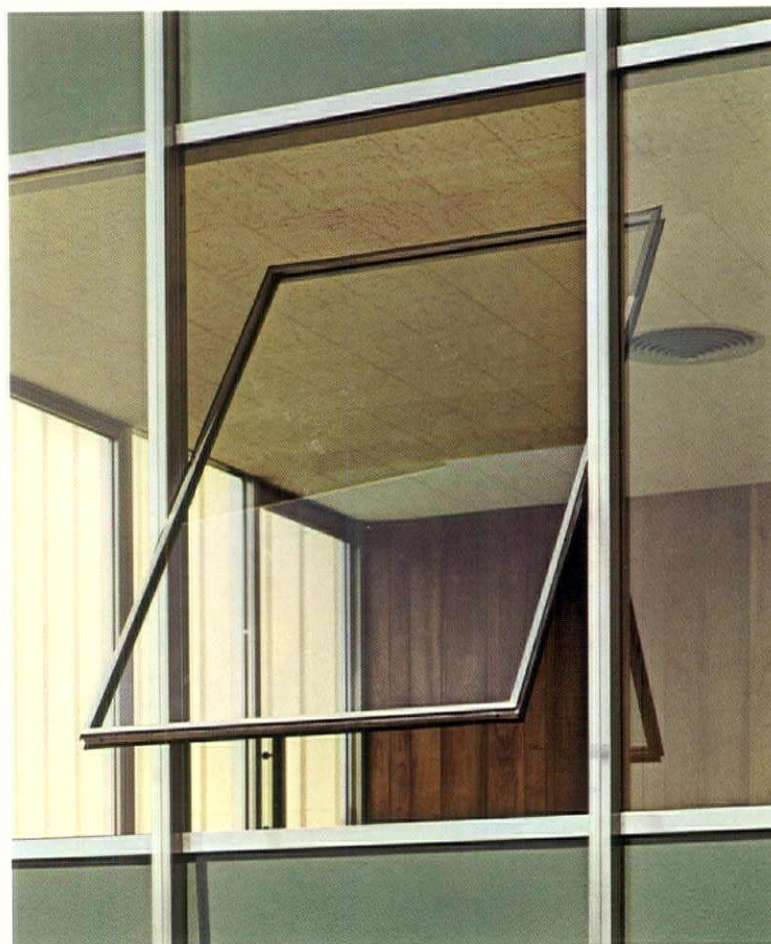
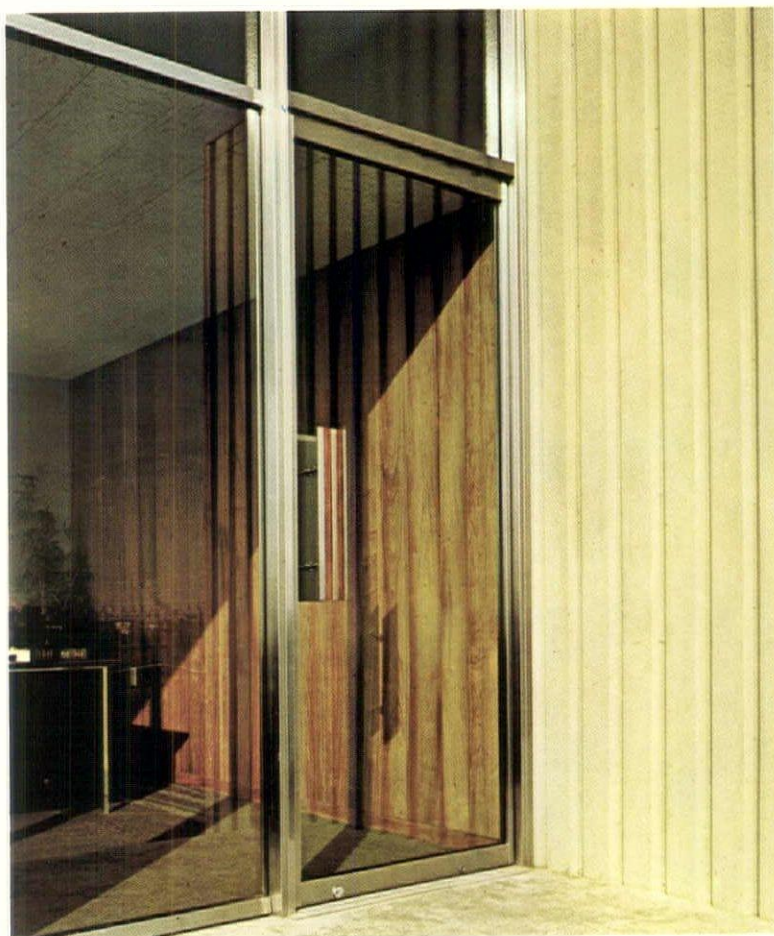
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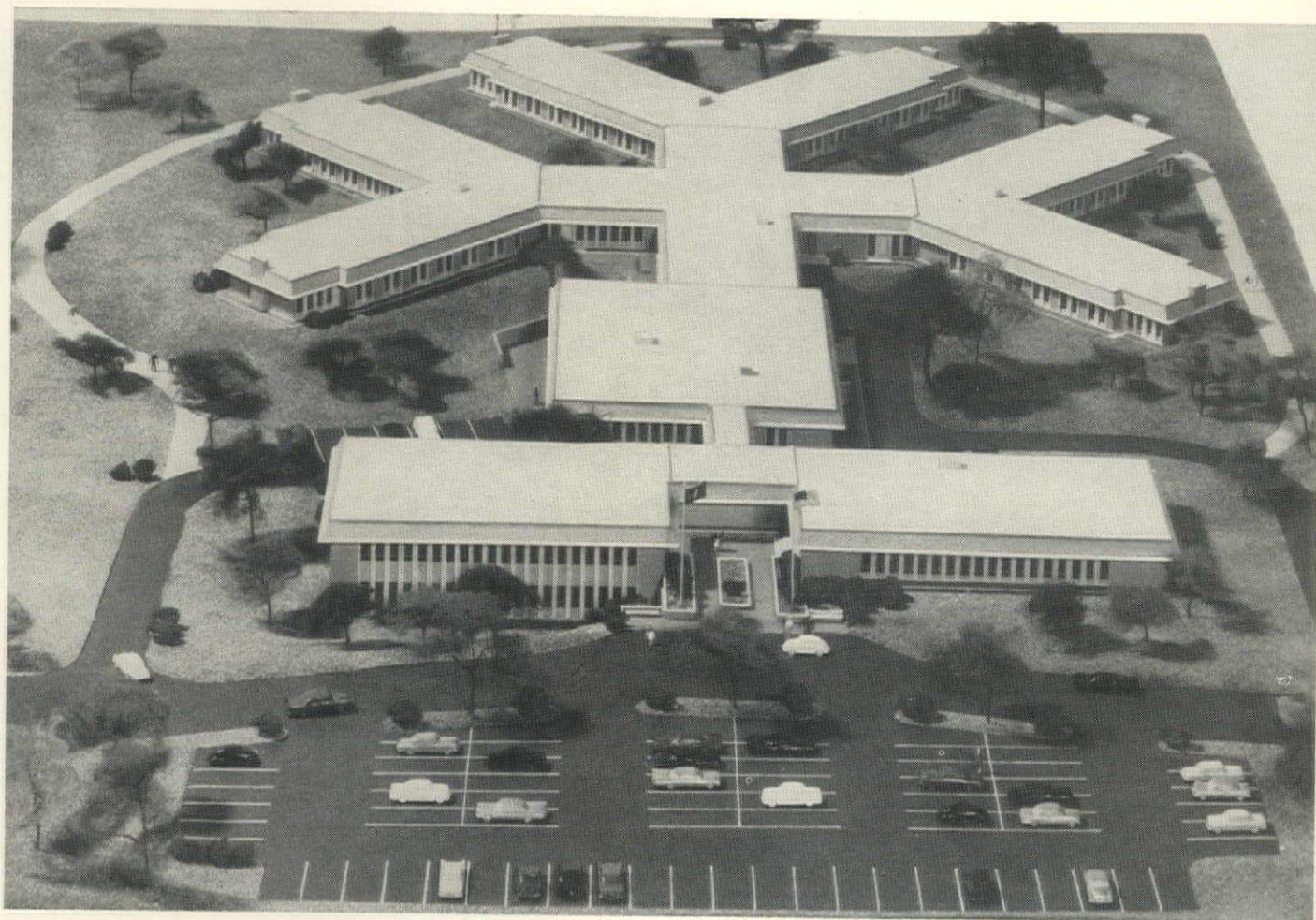
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HANKINS, ANDERSON & MONCRIEF
Mechanical & Electrical Engineers

• WILLIAM J. BLANTON •
Structural Engineer

SHERMAN CONSTRUCTION CORP.
General Contractor

BERNARD E. COOPER
Consulting Electrical Engineer

ON A ROLLING SITE adjacent to the Fairfax County General Hospital in Northern Virginia, an unusual diagnostic and intensive care mental hospital is under construction for the Commonwealth of Virginia. This hospital, to be called the Northern State Hospital, is unusual in that: a) patients admitted will be limited to high grade patients who can respond to intensive treatment; b) patients from the community can be effectively treated in the early stages of disturbance and remain within their home environment; c) there will be very few locks anywhere in the buildings.

Facilities are to be provided for admission, diagnosis, treatment, and clinical services. The capacity will be 126 beds, 42 per ward. Each ward will have one wing for men, one wing for women and will contain eleven semi-private

bed rooms, toilet and bathing facilities and a living room. A day-room will be provided in each ward, and additional patient convenience facilities including a library, a canteen, a craft therapy room, and a multi-purpose room, will be provided elsewhere in the building complex. Treatment, consultation and testing, shock treatment and recovery areas are to be provided as well as nursing services rooms.

As patients progress in their treatment they will be transferred to an out-patient classification. The clinic wing, for out-patients, is located opposite the Administration Building at the front entrance. Patients will be treated in the clinic by the same staff as had served them as in-patients to assure continuity of treatment.

The fascia design resulted from the desire to keep the scale and atmosphere residential rather than institutional. An interesting night lighting design will make use of contrasts of illumination color (incandescent, fluorescent and mercury vapor) as well as intensity of illumination. Mercury vapor will designate vehicular areas in strong contrast with the incandescent, designating pedestrian areas on the exterior. Inside a similar contrast theme will take place where lobbies, day-rooms and living rooms, which are in linear sequence, will be down-lighted by incandescent in contrast to fluorescent lighting for the connecting corridors.

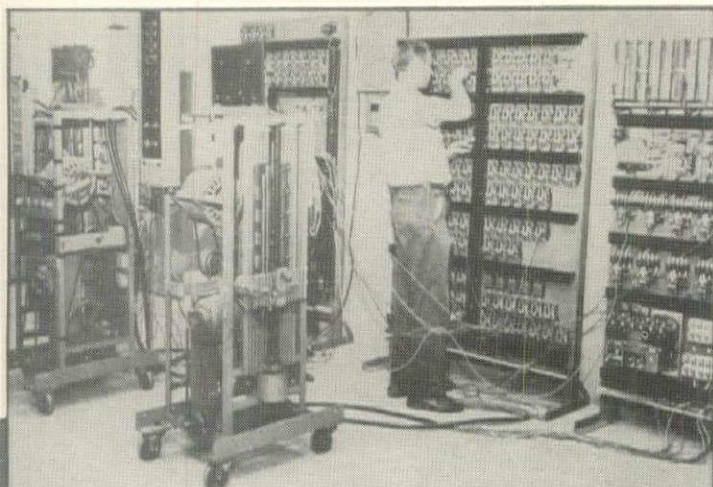
Construction consists of steel frame and bar joists with metal deck, non-bearing cavity exterior walls and masonry partitions. Ceilings are suspended
(Continued on page 91)



46,000 square foot factory is located four miles outside of Danville, Virginia in Industrial Park.

MOVING DAY FOR VETERANS

The move of the Westbrook Elevator Company into new quarters not only involved an entity which had its beginning over 125 years ago, but a group of veterans, some of whom had served almost 45 years with the Virginia manufacturing company.

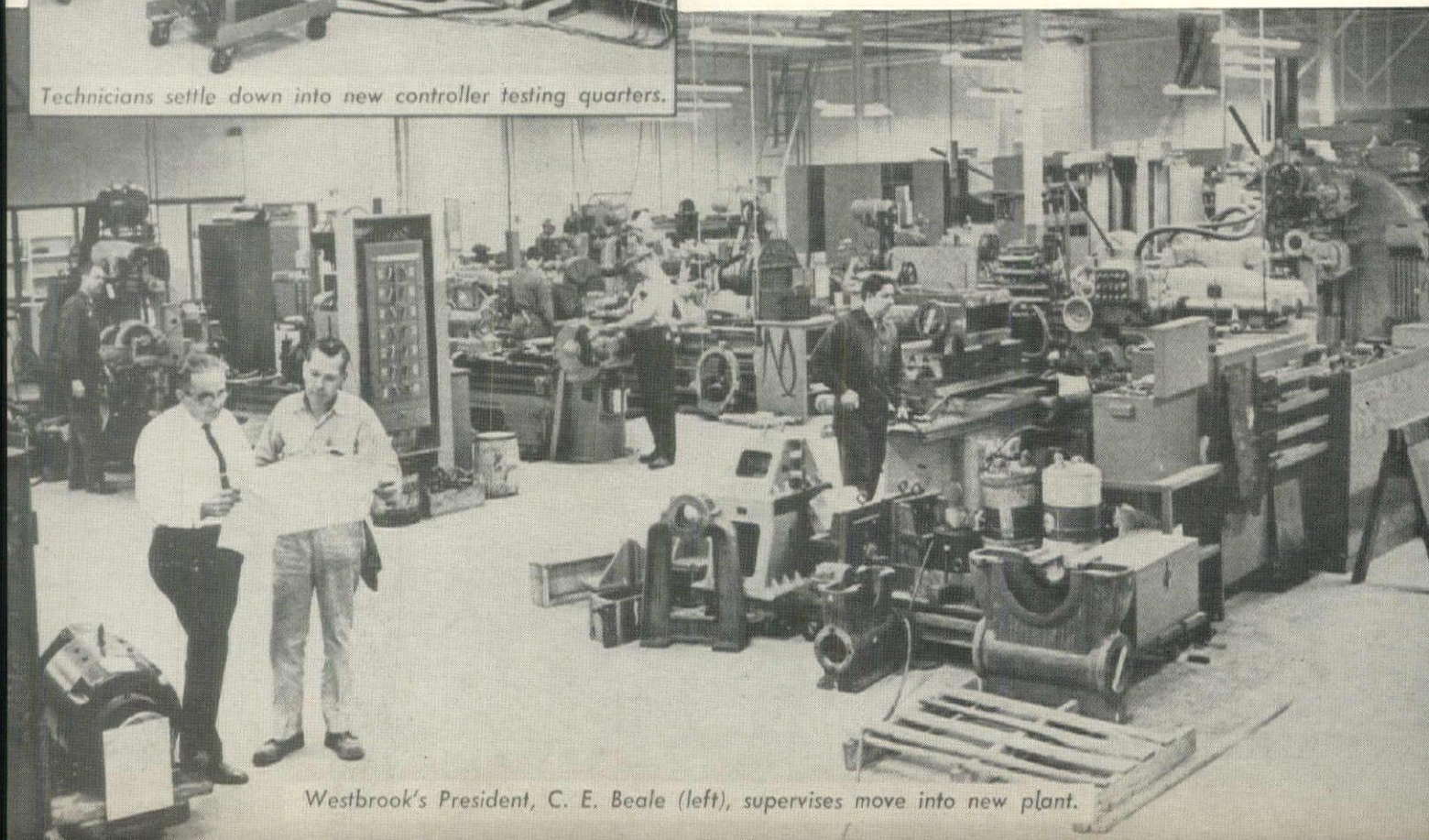


Technicians settle down into new controller testing quarters.

The Westbrook Company started near Danville as a foundry in 1840. No one is quite certain when it made its first elevator but when the files were moved they contained drawings dating back to the 1890's. In 1918, the company changed its name to Westbrook Elevator Manufacturing Company and three years later moved into downtown Danville where it remained until this year's transfer to 8½ acres in the city's Industrial Park. The 46,000 square foot new building still has a portion dedicated to foundry operation, pouring gear blanks and other bronze items.

C. E. Beale, company president who began with Westbrook as an erector in 1935, proudly points out that the organization is comprised of "old timers." "W. H. Williams, our construction superintendent has been with us 43 years; L. C. Gosney, our shop superintendent and branch manager C. H. Stout, 42 years; and F. E. Ferguson, 44 years. We probably have more veterans, for our size, than anyone in the industry."

Westbrook sells its hoisting machines to the conveyor industry as well as to elevator contractors and also markets an uncounterweighted drum elevator of an unusual design to the latter group. The company, although populated with "old timers," apparently has time for innovations; President Beale reports the use of 36-foot trailers to transport complete elevator units to job sites where they remain as store rooms and work shops for the duration.



Westbrook's President, C. E. Beale (left), supervises move into new plant.

THE JOURNAL BUILDING

McLEAN

THE JOURNAL BUILDING is situated on a through-lot between Old Dominion Drive and Elm Street. The elevation of Elm Street is ten feet higher than that of Old Dominion Drive, allowing a grade entrance to both floors. The commercial use on the lower level is entirely separate from the offices on the second floor.

The front and rear stucco walls are bearing walls constructed of light weight cold-rolled channel studs 3 5/8" deep on 24" centers. The stucco at the perimeter of the lozenge-shaped windows terminates in a special zinc stop bead 3/4" thick. A neoprene gasket fits over the stop bead and the glass making a waterproof, infiltration-proof and almost soundproof glazing system.

The second floor is carpeted throughout and there are fiberglass drapes on all the glazed openings, gold (in color) on the north and avocado on the south.

The carpeted office corridor is 6 feet wide and is hung with 18 color prints of the French Impressionist school, appropriately lighted with gallery-type spot lights.

Exterior planting boxes, 9-foot-high ceilings, 70-foot candles of warm, white fluorescent lighting, when combined with the above, give an air of elegance to this office space.

Subcontractors & Suppliers

From McLean: First Koenig Enterprises, Inc., general contractor; Eugene Rupard, carpentry; and from Falls Church: Holt Brothers, Inc., foundations & concrete; L. F. Jennings, Inc., masonry; Dale Lumber Co., millwork; A. Tasker, Inc., plumbing (Eljer Fixtures); and Condon & Reed, Inc., air conditioning and heating.

Washington, D. C. firms were: J. B. Kendall Co., steel, steel roof deck; Midland Contractors, plaster; Gott's Linoleum, Inc., resilient tile; From Alexandria: Wayne Insulation Co., Inc., insulation; Anning-Johnson Co., acoustical. And from Arlington: Rose Bros. Co., roofing; John E. Bell, painting; Crawford Door Co., steel doors & bucks.

Others were: R. C. Herzig, Bailey's Crossroads, excavating; Vienna Glass Co., Vienna, glazing; Interstate Electric, Merrifield, lighting fixtures; E. R. Appleton Electric, Inc., Great Falls, electrical work; Fries, Beall & Sharp Co., Springfield, hardware. Bigelow-Sanford supplied the the carpet and Standard Products supplied the window gaskets.



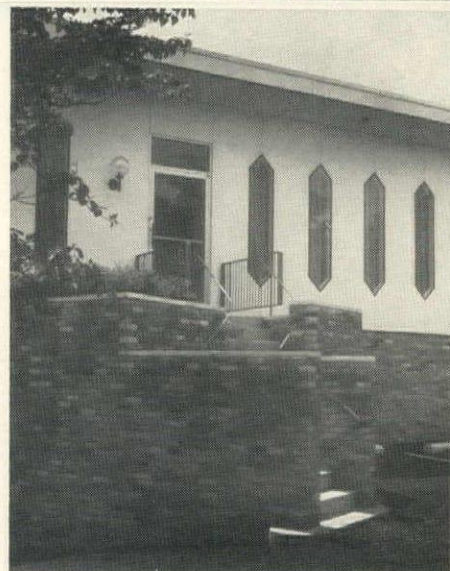
FRANCIS L. KOENIG

Architect

**FORTUNE ENGINEERING
ASSOCIATES**

Structural Engineers

Photo above shows the main entrance on Elm Street. Pictured at right is the secondary entrance showing planter, window gaskets, expansion joints and protective overhang. Below, the Old Dominion Drive elevation.



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RICHMOND, VIRGINIA

First Methodist Church, Pearisburg

ROBERT L. MILLS, A.I.A.
Architect

THOMAS A. HANSON & ASSOCIATES
Structural Consultants

OLIVER P. STRAWN, JR.
Mechanical Consultant

BOONE & WALSH, INC.
General Contractor

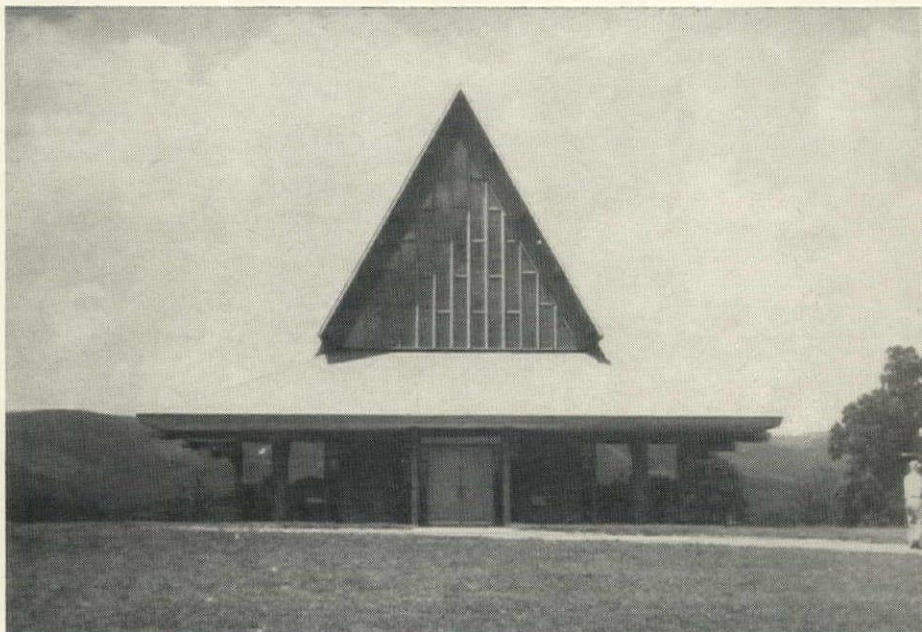
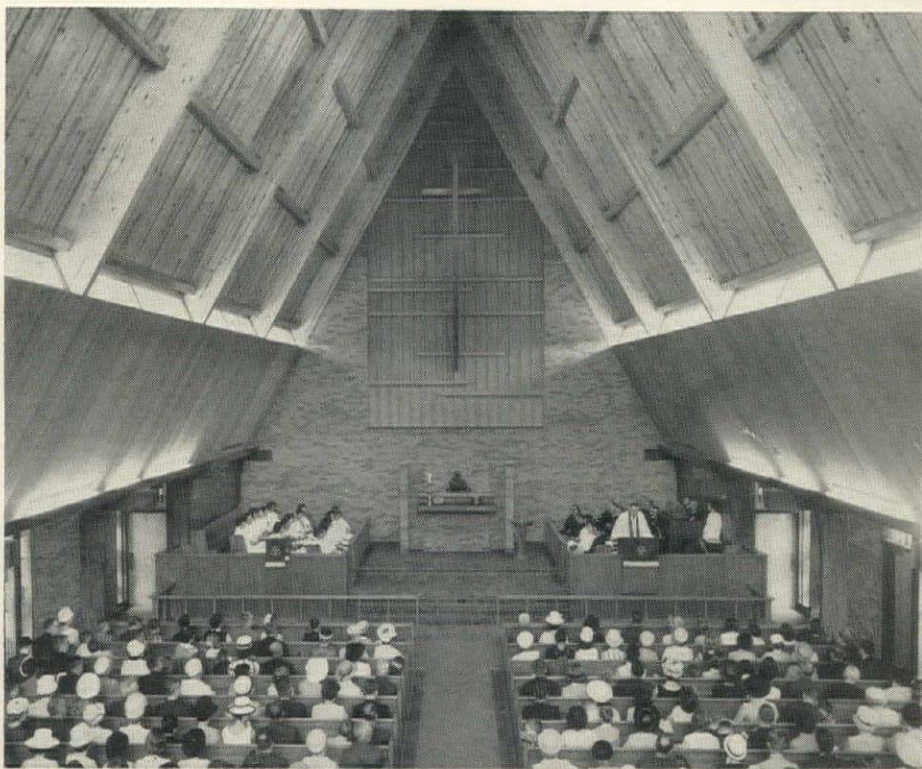
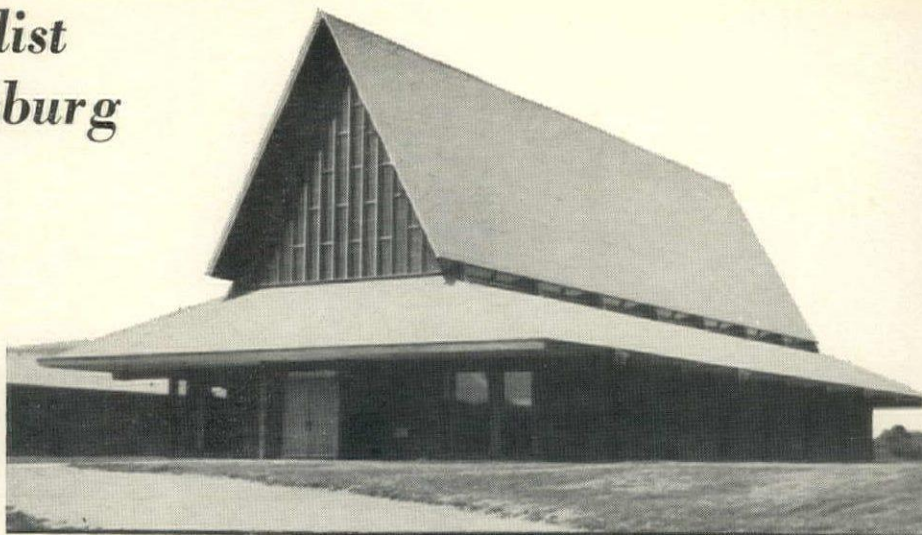
▲ The First Methodist Church, Pearisburg, was completed in June, 1966. The program for this church required a sanctuary to seat approximately 400 people, an education building of approximately 30 classrooms, a fellowship hall and administration facilities.

Final plans call for the four separate functions to be grouped around a courtyard which features a bell tower. The construction of the bell tower roof picks up some of the regional characteristics of other bell towers native in the Pearisburg area.

The sanctuary has exposed wood beams and decking with a ten-foot overhang on all sides. The walls are constructed of brick and there are narrow stained-glass windows on each side of the wood beams. Carpet covers the nave, and floors in the chancel and narthex are of brick. The lighting is indirect along each side. Rough-sawn redwood paneling is used on the interior from a high band of glass windows down to a height of 12' from the floor. The building is heated and cooled by heat pumps, with all duct work concealed in the overhang. A large triangle window above the entrance has stained glass which is indirectly lighted at night. Low-ceilinged side aisles lead to the large open space for worship.

The education building has 30 classrooms on two floors. Exterior finishes are brick and redwood paneling. Interior finishes are plaster and brick. Details used in brick walls and wood trim in the sanctuary are repeated in this building.

(Continued on page 93)





Earl Gregg Swem Library

THE NEW Earl Gregg Swem library at the College of William and Mary represents a focal point in the development of the enlarged campus at America's second oldest college.

Designed by Wright, Jones and Wilkerson, the building was dedicated last winter.

Of modular construction in reinforced concrete, the building has a square bay spacing on 22'-6" centers. The stairways, elevators and service lines are concentrated in four modules on each floor of the building. This arrangement provides for complete internal flexibility. The library is designed to support one additional floor.

There are five levels in the building

totaling 138,000 square feet in area. The basement contains the shipping and receiving department, custodial spaces, art storage and the offices of the King and Queen Press. On the ground floor is located the Lord Botetourt art gallery, an auditorium, museum, offices of the Institute of Early American History and Culture, rare book room, Virginia room, Tucker-Coleman room, Archives and Manuscripts department, seminar rooms, Honors Room, listening room, Audio-Visual Department, film preview room, photocopy services and the faculty lounge.

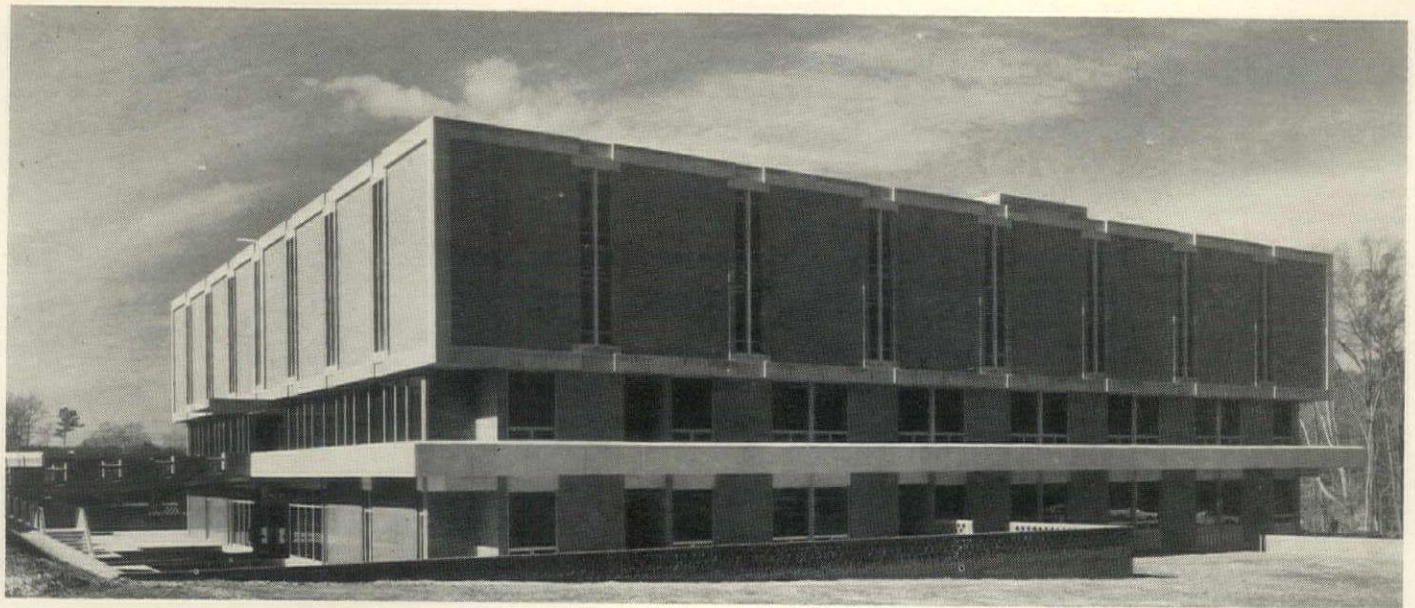
On the first, the entrance, floor are

browsing areas, the circulation desk, reserve book room, after-hours reading room, periodicals display shelves, Document department, Reference department, card catalog, bibliography room, technical processing offices, microfilm readers, typing and meeting rooms.

The second floor contains the library's administrative offices, staff lounge, conference room, book stacks, individual reading desks, carrels and faculty studies.

The third floor contains more stacks, individual reading desks and carrels.

The building, of brick with stone trim in keeping with the other twentieth century additions to the seventeenth century college, faces a court-



WRIGHT, JONES & WILKERSON

Architects

WILLIAM A. BROWN

**Consulting Engineer,
Mechanical**

WILLIAM T. ST. CLAIR

**Consulting Engineer,
Structural**

R. L. BULIFANT & CO., INC.

General Contractor

COLLEGE OF WILLIAM & MARY

yard and Phi Beta Kappa Memorial Hall.

Over 240 different areas were designed into the library equipped to anticipate present and future needs. Special attention has been given to proper lighting and acoustical treatment of the study and research facilities. Thermostatic and humidostatic controls provide for year-round comfort and for the protection of the rare books, historic documents and College artifacts preserved therein.

General contractor for the project was R. L. Bulifant & Co., Richmond with interior design and furnishings by the architects. ▲

to tell the Virginia Story

Subcontractors & Suppliers

From Richmond: R. L. Bulifant & Co., Inc. was the general contractor and also did the carpentry work; Southern Materials Co., Inc., concrete; N. W. Martin & Bros., Inc., roofing; Economy Cast Stone Co., stone work; Dickerson Paint Co., painting; Brisk Waterproofing Co., Inc., waterproofing; John G. Duggan, Inc., plaster; Pleasants Hardware, hardware; E. C. Ernst, Inc., electrical work; Thalhimers Industrial Sales, carpet and draperies.

From Norfolk: Walker & Laberge Co., Inc., windows, glazing; Ajax Company, Inc., ceramic tile, terrazzo; Harry M. Brown Co., plumbing, air conditioning.

From Virginia Beach: Ford Pile Foundations, Inc., piling; Shields, Inc., acoustical.

Other Suppliers were: C. H. Lawson, Inc., Williamsburg, excavating; Old Virginia Brick Co., Inc., Salem, masonry; Montague-Betts Co., Inc., Lynchburg, steel; Ingalls Stone Co., Inc., Columbus, Ohio, additional stone work; Marsteller Corp., Roanoke, special deck; R. L. Dresser, Inc., Raleigh, N. C., resilient tile; Wearn Lumber Co., Charlotte, N. C., millwork; American Metals, Inc., New Orleans, La., steel doors and bucks; Estey Corp., Red Bank, N. J., steel bookstacks.



TABERNACLE BAPTIST CHURCH

SALEM

GUERRANT & MOUNFIELD
Architects

EARL R. SIMPSON, JR.
Consulting Engineer

DAYS CONSTRUCTION COMPANY
General Contractor



IN 1952 Tabernacle Baptist Church built a \$162,000 Sunday School addition for which Richard F. Guerrant was the architect, prior to the partnership of Guerrant and Mounfield. In 1966 the church completed the new 800 seat Sanctuary and new facilities to the rear of the Sanctuary at the contract cost of \$267,500. This gives the congregation a reasonably complete church plant. A considerable amount of expansion is provided for in the unfinished basement area of the new Sanctuary.

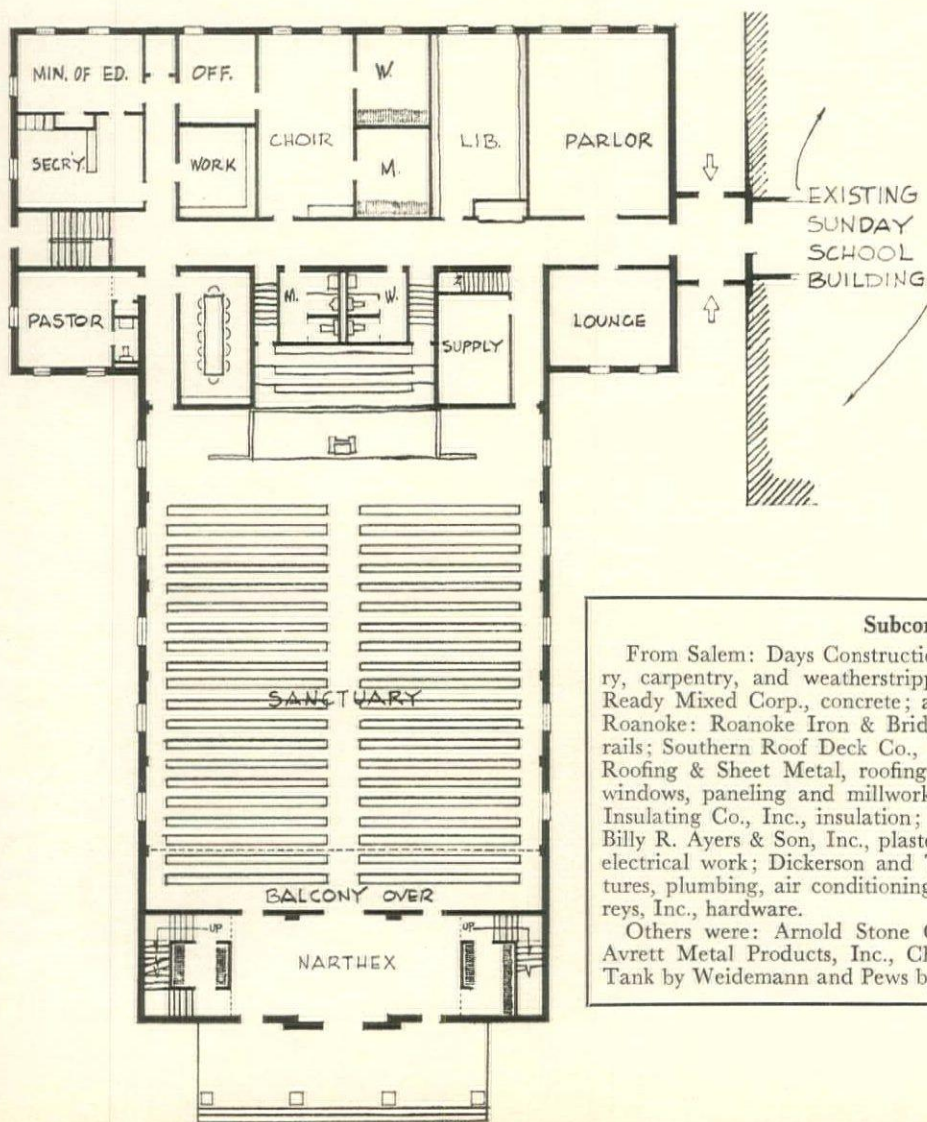
This congregation has had an ex-

cellent growth rate both in membership and in the physical plant. In addition to its own growth, it has started new churches in adjoining communities.

The new building is a "T" shape building with the leg of the "T" containing the auditorium which is 61'-6" wide by 108'-2" long. Auditorium construction consists of steel trussed roof structure on steel columns. Floor construction is 8" thick prestressed "span deck" supported on precast posts and prestressed inverted tee beams. The

basement is unfinished. Auditorium walls are concrete block with brick exterior cavity-type construction. Interior walls are plastered. Asphalt shingle roof is on wood joists (on steel trusses); the ceiling is flat with acoustical plaster.

At the rear of the auditorium (top of the "T" shape) is supplementary space consisting of offices, Pastor's study, work room, choir and dressing rooms, library, parlor, lounge, storage and toilets. This portion of the building is 49'-8" by 98'-6" with the auditorium extending into it 15'-8". It is one story with a flat built-up roof, on 1" insulation, on light weight concrete over steel deck and steel joist. The mechanical room housing the heating and air conditioning equipment is located on this roof attached to the end of the (higher) auditorium portion. The heating system is electric resistance with air supplied through ducts to ceiling anemostats and with supplementary baseboard electric heat for the auditorium. The rear space is heated and air conditioned with individual packaged room units. The walls of the rear space are concrete block and brick bearing parapet walls with exposed concrete block interiors, except for the Pastor's study, which is paneled.



Subcontractors & Suppliers

From Salem: Days Construction Co., general contractor, foundations, masonry, carpentry, and weatherstripping; Thomas Brothers, excavating; Concrete Ready Mixed Corp., concrete; and W. E. Robertson Co., painting. And from Roanoke: Roanoke Iron & Bridge Works, Inc., steel, steel grating and handrails; Southern Roof Deck Co., Inc., steel roof deck, roof deck; I. N. McNeil Roofing & Sheet Metal, roofing, waterproofing; South Roanoke Lumber Co., windows, paneling and millwork; Pittsburgh Plate Glass Co., glazing; Taylor Insulating Co., Inc., insulation; Hampshire Corp., acoustical tile, resilient tile; Billy R. Ayers & Son, Inc., plaster; Newcomb Electric Service, lighting fixtures, electrical work; Dickerson and Trent Plumbing & Heating Co., plumbing fixtures, plumbing, air conditioning, heating and ventilating and Graves-Humphreys, Inc., hardware.

Others were: Arnold Stone Co., Greensboro, N. C., pre-stressed concrete; Avrett Metal Products, Inc., Charlotte, N. C., steel doors & bucks. Baptistry Tank by Weidemann and Pews by owner.

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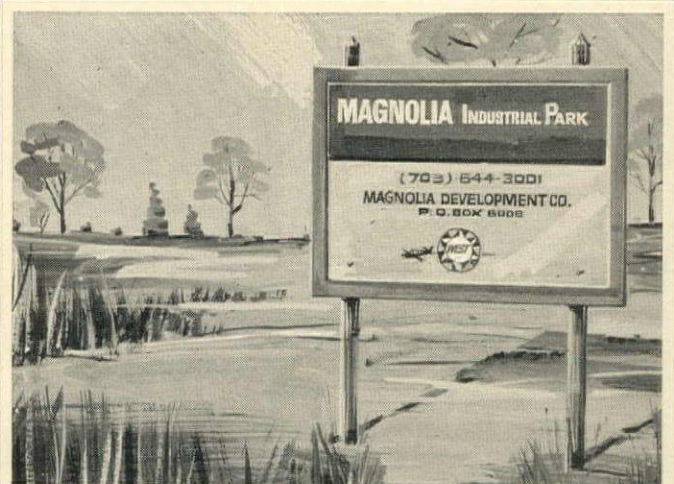


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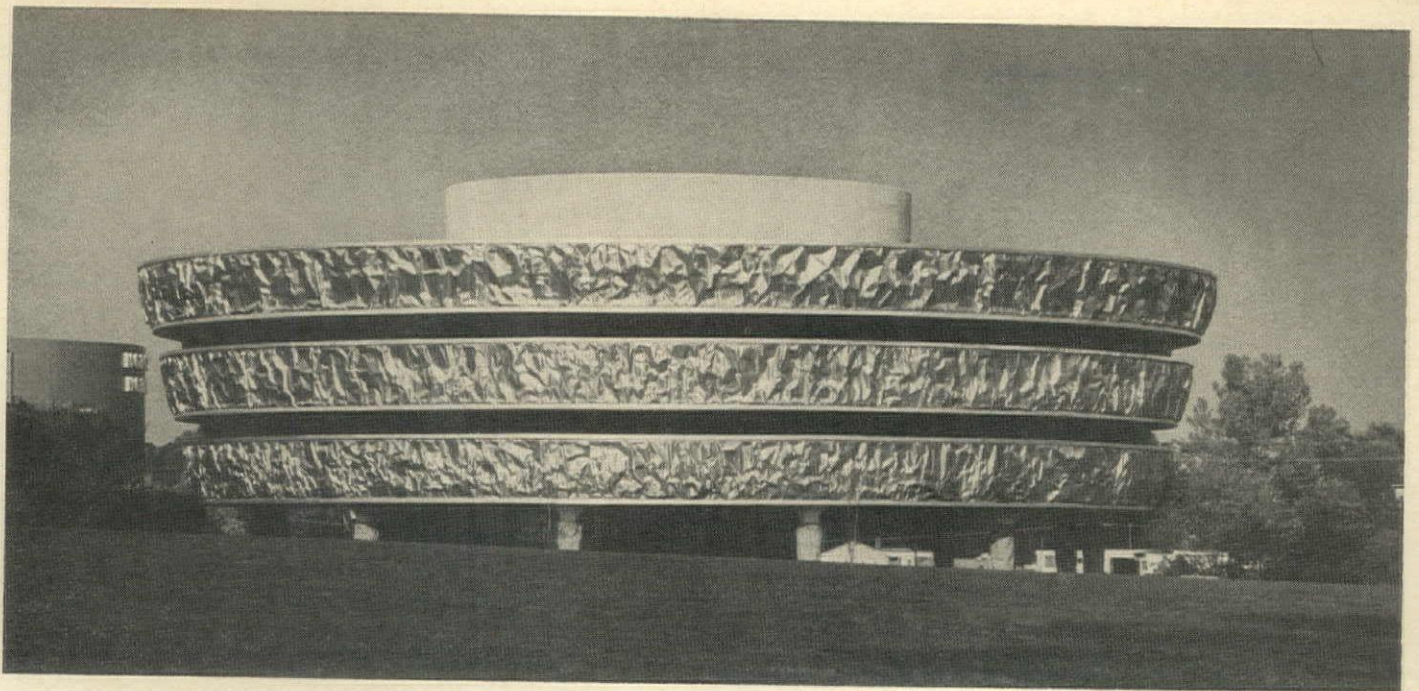
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MARKEL SERVICE BUILDING—RICHMOND

HAIGH JAMGOCHIAN—Architect

WILLIAM B. BLANTON & ASSOCIATES—Structural Engineer

ROBERT S. SPRATLEY & ASSOCIATES—Mechanical Engineers

BRANDT & MORSE—Electrical Engineers

ALBERT ARDMAN—Interior Decorator

IN ADDITION to being an ideal architectural client, the Markel Service Corp. is a young, spirited, and forward-thinking organization. Fifteen years ago they were the first firm to build in the Willow Lawn area, a mile beyond the western boundary of Richmond. Since then, many new businesses have settled in the same area. Today, Willow Lawn is a successful business center in metropolitan Richmond.

Approximately five years ago, this nation-wide truck and bus insurance company began to think of expanding their facilities. They were interested in a building that would not only function efficiently in their departmental operations but one that would identify them as a unique and progressive organization.

The chosen site (approximately 160' wide x 200' deep) had a 50' drainage ditch and right-of-way cutting diagonally across the center. The alternate choice of a building site, adjacent to the first site and about the same size, had two right-of-way strips crossing the site diagonally. One strip crossed at the left front and the other at the right rear.

The challenge was to design a building that would fit either site. To per-

mit this flexibility of choice, the foundation had to avoid the right-of-way strips which affected one-third of the site.

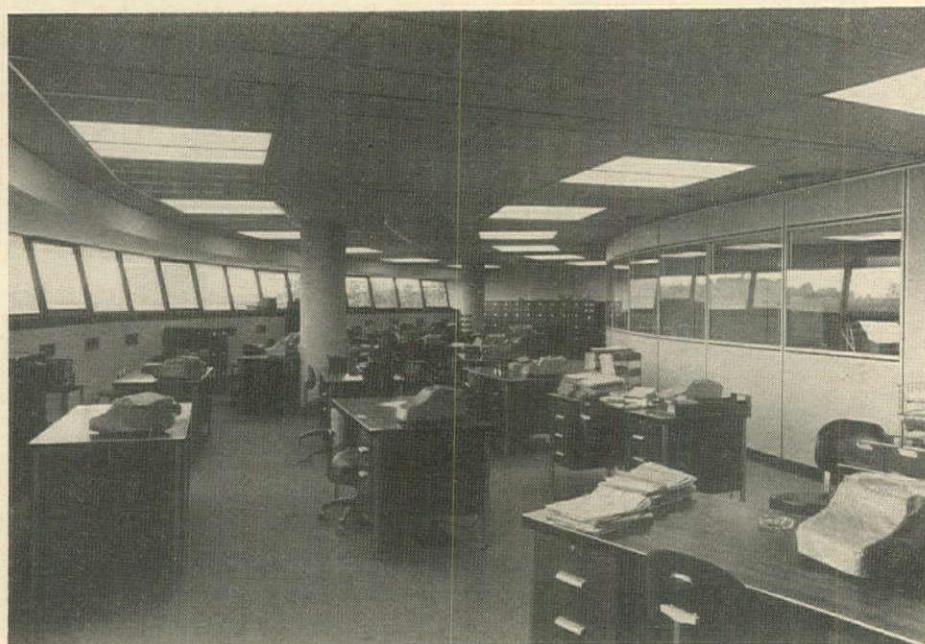
The client requested approximately 1,400 square feet of office space for their immediate use with the possibility of including another 12 to 13,000 square feet in the near future. Other requirements were provisions for wheel chair ramps, a loading dock for tractor-trailers, parking for eighty cars, protection from floods (which occur several times a year in this section of Henrico county), and all the conventional facilities common to an office building of this nature. Budget for the project was set between \$14 and \$15 per square foot.

"For an architect to design a building that is ultimately complete and beautiful" Jamgochian says, "he must satisfy the client, the critics, and himself. The client is the least difficult to convince because he is the one who prescribes the requirements which are to be provided in the architectural solution. Some architects are satisfied with a building design after the building is completed. There is no ultimate design solution to a building . . . unless time could stand still. An architect

never knows all there is to know about the solution to a building design. If he should wait until he does know all, the building would never be completed. Design must be subjected to all known solutions; in addition, experiment and re-

ENTRANCE TO EXECUTIVE SUITE





(Continued from preceding page)

search are necessary. The architect, like any artist, has the tendency to believe the next design will be a better one. Thus, the architect is never satisfied, the search never ends."

While doing research in design problems, Jamgochian has found the forms of nature a source of inspiration. Close observation and study of these forms made him realize that they have evolved through struggle for survival — revealing purity, beauty, and practicality in their most elemental form. The architect feels that when he has successfully brought together structural elements and useful spaces, in a design which reflects the building's purpose, he has created the closest likeness to nature. This is the unity for which the architect is reaching. To merge the structural system and building use into a philosophical expression: this is the spirit of the architect's efforts — this is the search. The architect, of course, is aware of the prime responsibility to his client. Unfortunately, the relationship between architect and client results, on occasion, in conflict over finances. While the client is usually concerned only with the economic and functional aspects of the building, the architect must integrate the requirements into a significant work of architecture. Jamgochian believes the architect is wining this struggle. He cites the fact that only five or six years ago companies were building pseudo-colonial structures to signify their stability and surety. Today the successful executive is striving for distinction. He is buying original paintings to assure himself that his office will be unlike any other, and to reflect his modern, forward-looking philosophy. But this spark of interest in the creative needs encouragement. It is the architect's responsibility. This, in fact, he feels, is his duty.

The form of the new Markel building is easily determined. It is a bold statement in mass and texture. The mass evolved from enclosing a specific space in which to work. The texture is the result of the natural behavior of sheet aluminum. There was a certain amount of experiment and research involved in the realization of the completed form.

A circular plan (160' diameter) was determined to be most feasible because it allows total flexibility for the type of



Shown on this page are, top, the entrance lobby; center, a perimeter office and bottom a general office.

Photos on this page show: top, the executive suite; center, an interior office and bottom, built-in storage.

operation that each department requires and fluid space relationship between departments. It meets the demand of a compact package for a small site where maximum natural light is desirable. It is, by contrast, for Richmond, a readily identifiable building. By establishing the building on stilts, sufficient surface parking area is created and the problem of flooding is avoided. All mechanical equipment and required storage is situated in the penthouse.

The use of materials and methods were as follows: Locating of columns to coincide with the diagonal drainage ditch, spacing of columns to facilitate required parking area and establishing

Subcontractors & Suppliers

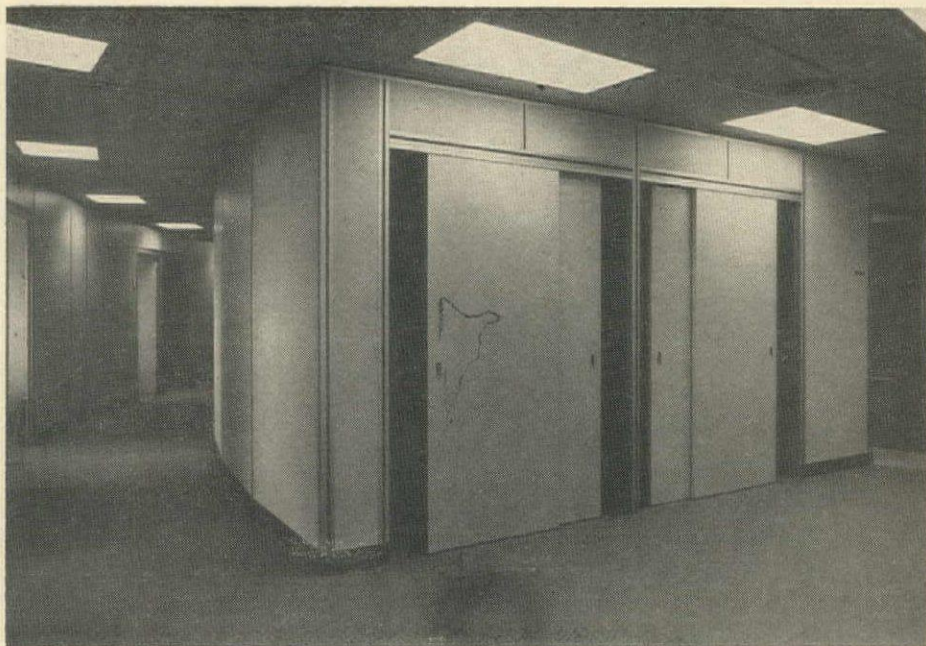
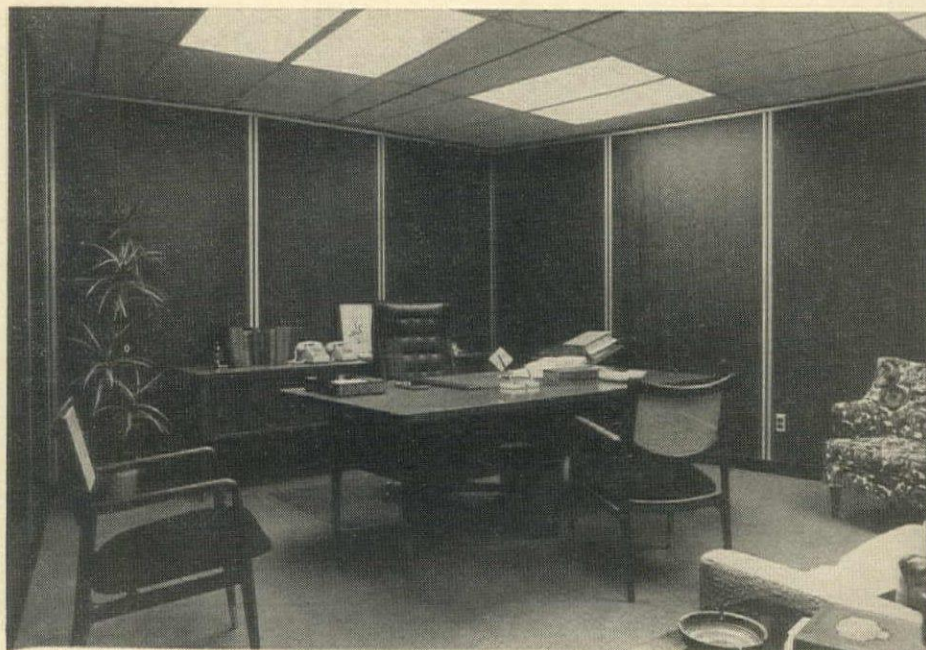
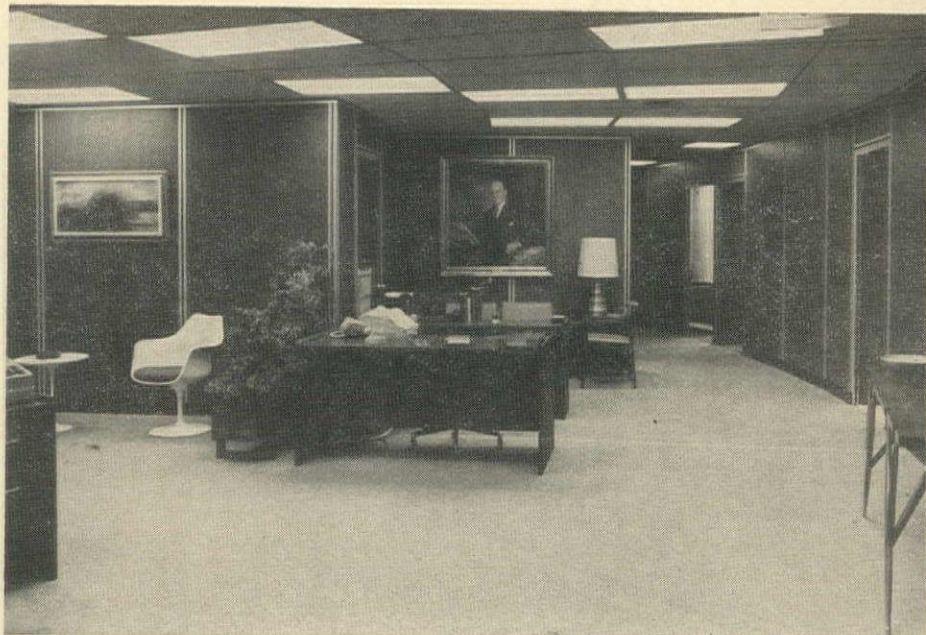
(All Richmond firms unless otherwise noted)

Alexander Building Construction, Inc., general contractor, carpentry; Riner Construction Co., excavating; Lee-Hy Paving Corp., paving; McKinney Drilling Co., Nacogdoches, Texas, caissons; Southern Materials Co., Inc., concrete; C. A. Guard, masonry, stone work; Liphart Steel Co., Inc., steel, steel roof deck, handrails; J. B. Eurell Co., gypsum; Whitley, Inc., roofing; Roanoke Engineering Sales Co., Inc., windows, window walls, steel doors & bucks; Binswanger Glass Co., Inc., glazing; N. Chasen & Sons, Inc., painting; H. Beckstoffer's Sons, paneling, millwork; Manson & Utley, Inc., weatherstripping, acoustical, resilient tile; W. F. Weiler Co., insulation; A. Bertozzi, Inc., plaster; General Tile & Marble Co., Inc., ceramic tile, terrazzo; J. L. Parker Electric Co., lighting fixtures & electrical work; J. W. Bastian Co., Inc., plumbing fixtures, plumbing, air conditioning, heating & ventilating; Virginia Elevator Co., Inc., elevator, and Reynolds Metals Co., Inc., aluminum coils for exterior. Movable partitions were supplied by Liskey Aluminum, Inc., Glen Burnie, Md.

spans to clear driveways led to a radiating 12-beam framing system with cantilevered ends. The cantilevers allow ample clearance of piers from property lines and permit the 15-degree taper desired on the exterior walls. The presence of bedrock at near surface and the use of high strength structural steel assure economy in the brief number of supporting piers. Steel framing satisfied the time schedule for erection

(Continued on page 94)

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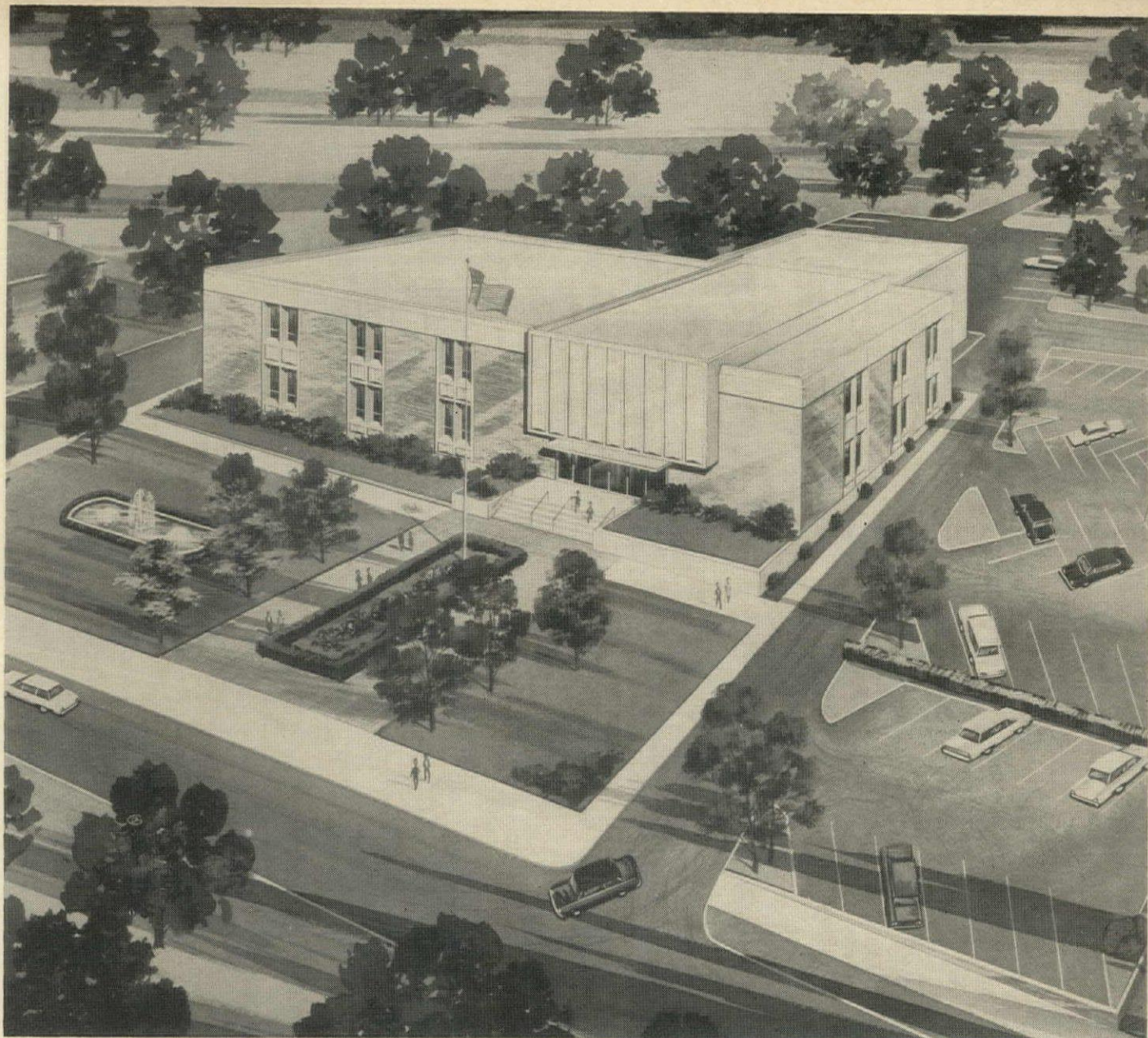
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J. COATES CARTER, AIA
Architect

ROBERT G. CAMPBELL
Landscape Architect

GROUND WAS BROKEN for the Martinsville Municipal Building on September 6, 1966 and the building is scheduled to be ready for occupancy by Christmas, 1967.

A bond issue to cover cost of the municipal unit was carried by a 3-to-1 vote on February 8, 1966. A modern prison annex is also provided for, to accommodate 20 cells.

The plans provide for all municipi-

pal offices, accounting, Commissioner of Revenue, Treasurer, Corporation Court, Trial Justice Court, and Juvenile Court, with accessory rooms.

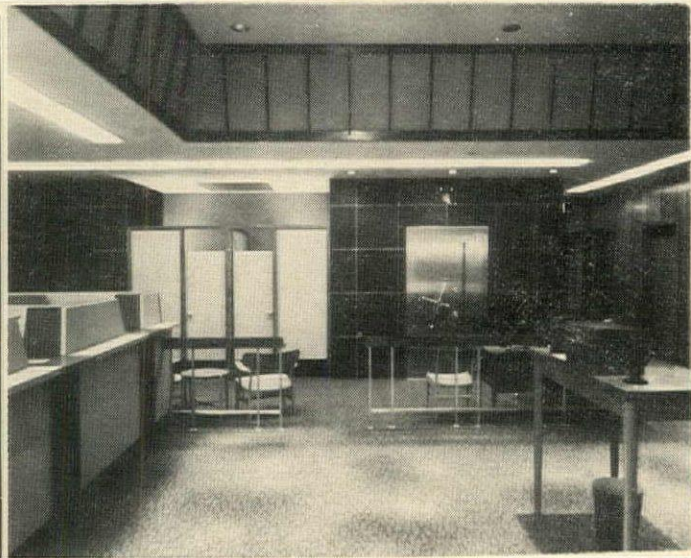
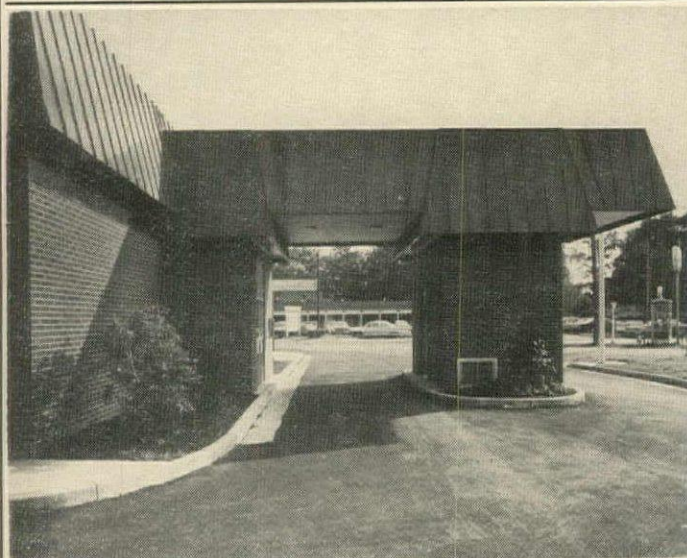
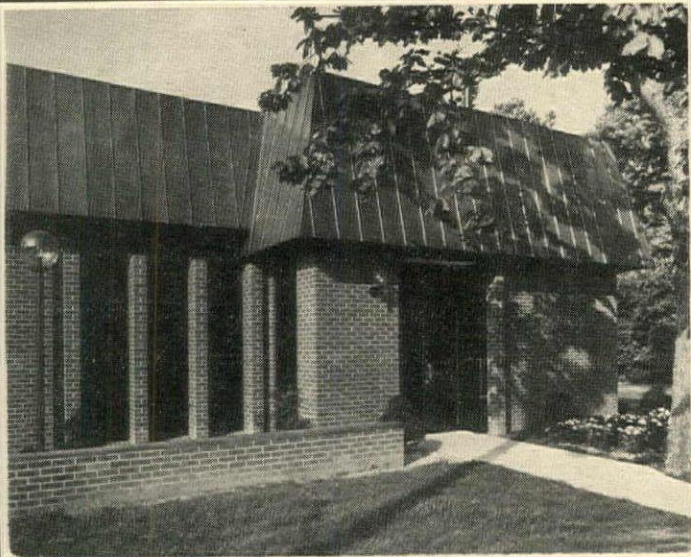
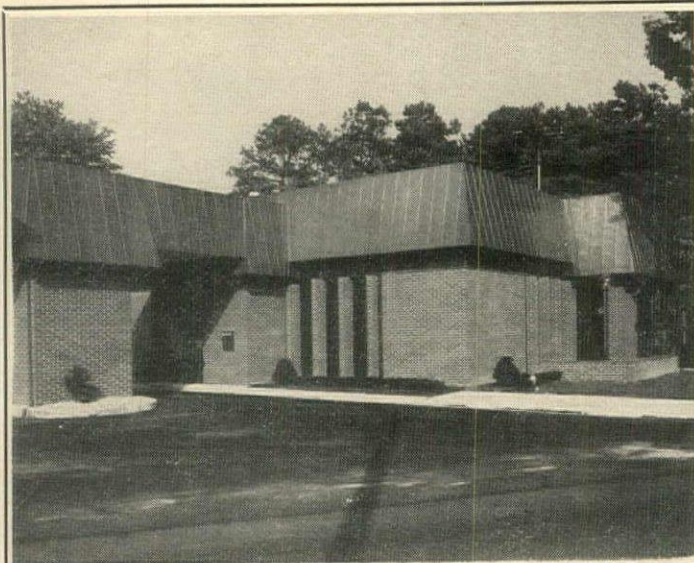
Major features of the plans provide for the following:

1. Parking area for 120 cars accessible from three (3) streets.
2. Drive-in window, similar to banking units, for payment of accounts for utilities, taxes, fines, etc.

3. Access to Trial Justice Court and Corporation Court from Prison Building and Police Department.
4. The building will have area for expansion in a fully excavated, unfinished basement served by two (2) stairways and two (2) elevators.
5. Provisions are made in the basement area for future Civil Defense Control Facilities.

Subcontractors & Suppliers

From Martinsville: Stanley W. Bowles Corp., general contractor, foundations, concrete, masonry, structural wood, carpentry, plastic wall finish, waterproofing, weatherstripping and insulation; John D. Cox, excavating; Helms Roofing Co., roofing; Martinsville Glass Co., glazing; Richard Shough Paint Shop, painting and Prillaman & Pace, Inc., plumbing fixtures, plumbing, air conditioning, heating, and ventilating. Other firms were: Roanoke Iron & Bridge Works, Inc., Roanoke, steel roof deck, steel grating and steel doors & bucks; Superior Block Co., Charlotte, N. C., pre-stressed concrete; Hite Tile Co., Collinsville, structural tile, ceramic tile, terrazzo; Danville Lumber & Mfg. Co., Danville, paneling, millwork; and Schlueter Electric Co., Collinsville, lighting fixtures and electrical work.



CHESAPEAKE BRANCH BANK

CHURCHLAND BRANCH — CITIZENS TRUST COMPANY

YATES, BOGGS, BERKELEY & SERVICE — Architects

JOHN HOFFMAN & ASSOCIATES
Consulting Engineers

J. L. SMITH CORPORATION
General Contractors

▲ This bank designed by Yates, Boggs, Berkeley and Service, serves an old suburban neighborhood that has recently experienced rapid residential growth while retaining many of its original traditional characteristics. A small commercial "crossroads" serves the area and is the location of the site.

The relation of the environment to the program requirements of modern banking services led to a blending of traditional forms and materials with contemporary design and technology. Floating above a band of cleft slate, the mansard roof planes recall the past while making a definite statement of forms in space. The slate drops down at window and door groupings, lending accent and direction and breaking the horizontal travel of brick. Continuing its direction through the entrances the slate leads one into the public spaces and anchors and expresses the mass of the vault. The mansard is repeated in a high ceiling above the lobby.

Photos, opposite page, left and right, from top: (1) General view of exterior; (2) Entrance; (3) Drive-In Window; (4) End of banking room showing vault; (5) Office area and (6) Banking room.

Interior finishes and furnishings were selected by the architects to create an atmosphere of warmth and comfort in contrast to the bustle of the typical "downtown" bank. The entire banking space is carpeted. Earth colors in carpeting and draperies, elm panelling, and natural teak, oak and cane furniture were specified.

The furniture was handcrafted in Sweden from Scandinavian Folk Designs, adding comfort, light scale and another remembrance of tradition within the contemporary framework.

J. L. Smith Corporation served as general contractor with the following subcontractors and suppliers: C. M. Norris, roofing; Joshua Swain & Co., Inc., stone work, ceramic tile; Brickell Electric Co., electrical work; Pierce Heating & Air Conditioning Co., air conditioning, heating, ventilating; E. Caligari & Son, Inc., Norfolk, painting; Elliot & Co., Norfolk, millwork; F. P. Gale Plumbing & Heating Co., Chesapeake, plumbing. Furniture by Lunning and carpet by Mohawk. (All Portsmouth firms unless otherwise noted) ▲

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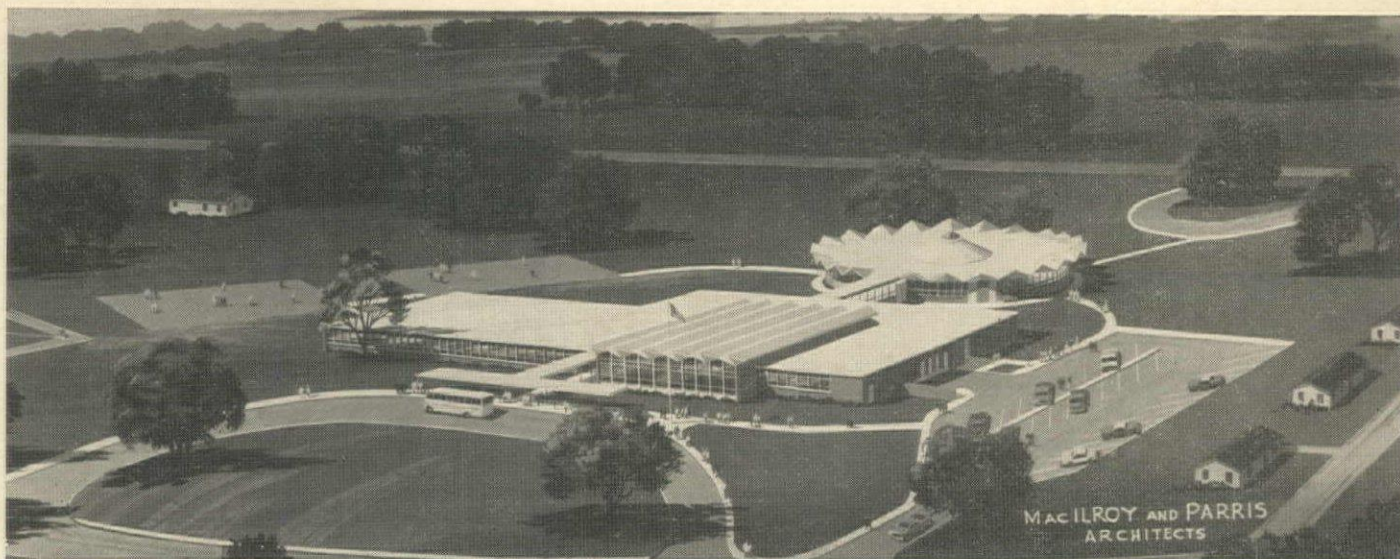
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JOHN W. DANIEL & CO., INC.
General Contractor

CHESTERFIELD COUNTY'S J. B. Fisher Elementary School, designed by MacIlroy and Parris, Architects, is located on a 10-acre site on Garden Road in the Hobby Hill area, north of Route 147. Occupied in September, 1966, and accommodating 600 pupils in the first through sixth grades, the new 20-classroom school reflects a particular emphasis on the development of the individual child.

The school is divided into two basic building and educational units, connected by a glazed corridor. The upper elementary unit contains, in addition to classrooms for grades 4 through 6, the library, combined cafeteria-auditorium, kitchen, administration and health areas, and a special educational facility for the slow learners.

The lower elementary or primary unit is a circular 10-classroom building which may serve the conventional primary grades of 1 through 3, although it is specially designed for use in a non-graded primary system which offers continuous pupil advancement. The classrooms, placed around the periphery of the building, are arranged in pairs which are divided by sound-retarding, folding partitions, and connected directly by doors to adjoining classrooms. In the center of the building, and connected to each classroom, is a large, circular room which may be used either

for team teaching or special instruction, or as a materials resource center.

The basic concept of this plan is to facilitate, via flexibility of traffic flow and space use, an optimum use of teaching personnel and space. In the non-graded primary system, the educational program is focused essentially upon the development of the particular child, in an effort to allow each pupil to advance according to his own unique

talents and needs. This plan, with expandable, interconnected spaces, permits various combinations of pupil grouping, rather than having each class confined to separate rooms. Thus, teachers may readily pool their efforts and resources in a team teaching plan, realizing more effective use of their time, and expediting the various educational processes by allowing each member of a team ready access to those pupils who respond to, or need, particular instruction at a particular time.

Each classroom is furnished with a sink, drinking fountain and movable equipment for work and storage. Each pair of rooms has toilets for girls and boys. Contrasting colors in materials, equipment and painting were selected to effect a maximum use of color and solar orientation. In essence, this building was planned to create an environment, both physical and psychological, which will be conducive to healthy, receptive attitudes to learning during the formative years of the very young individual.

The structural frame of the building is exposed steel, using a folded plate design for the cafeteria and repeating this motif at the eaves of the circular unit. To enhance the spaciousness of the central area of the circular building, the roof and ceiling over this area are

(Continued on page 97)

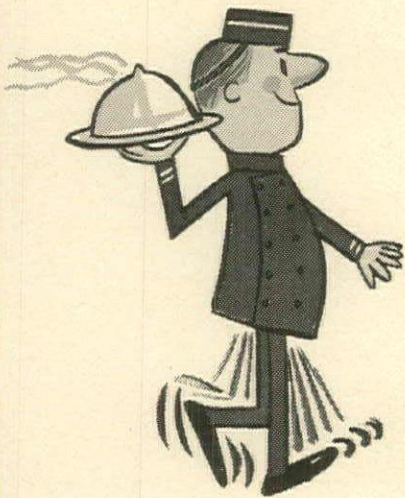
Subcontractors & Suppliers

(All Richmond firms unless otherwise noted)

John W. Daniel & Co., Inc., Danville, general contractor; R. H. Rose, clearing & grading; Southern Materials Co., Inc., concrete; Southern Brick Contractors, Inc., cavity wall insulation & masonry; Bowker & Roden, reinforcing steel; Inland Steel Products Co., Baltimore, Md., steel roof deck; Lee-Hy Paving Corp., paving; J. B. Eurell Co., precast roof deck (Tectum); N. W. Martin & Brothers, Inc., roofing & sheet metal, skylights; Economy Cast Stone Co., cast stone, stone work; Montague-Betts Co., Inc., structural steel, miscellaneous metals & windows.

Also, Binswanger Glass Co., Inc., glass & glazing; M. P. Barden & Sons, Inc., painting; Manson & Utley, Inc., waterproofing, caulking; Terminix Co., Inc., Norfolk, termite protection; O'Ferrall, Inc., acoustical materials & vinyl base; Danville Plaster & Drywall Co., Inc., Danville, lathing & plastering; Oliva & Lazuri, Inc., terrazzo, tile & marble; Miller Manufacturing Co., Inc., millwork; J. S. Archer Co., steel doors & frames; Dages Co., folding partitions; American Steel Equipment Co., Inc., Norfolk, chalk boards & tack boards.

Others were: Oliver Brothers Electrical Contractors, Inc., electrical work; Nick Ulisse, curb, gutter & exterior concrete walks; Hungerford, Inc., plumbing, air conditioning, heating and ventilating; Pleasants Hardware, hardware & toilet accessories; National Seal Works, name plates; Boiler Brick & Refractory Co., Inc., incinerator; J. E. Seearce, storm sewers; and Lyttle & Barnes Construction Co., Inc., sanitary sewers.

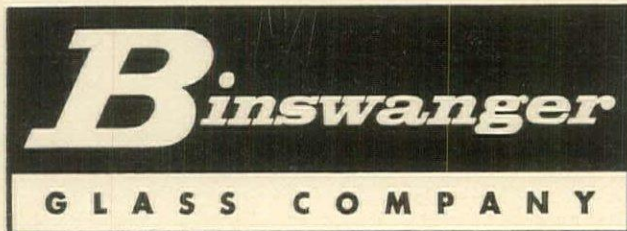


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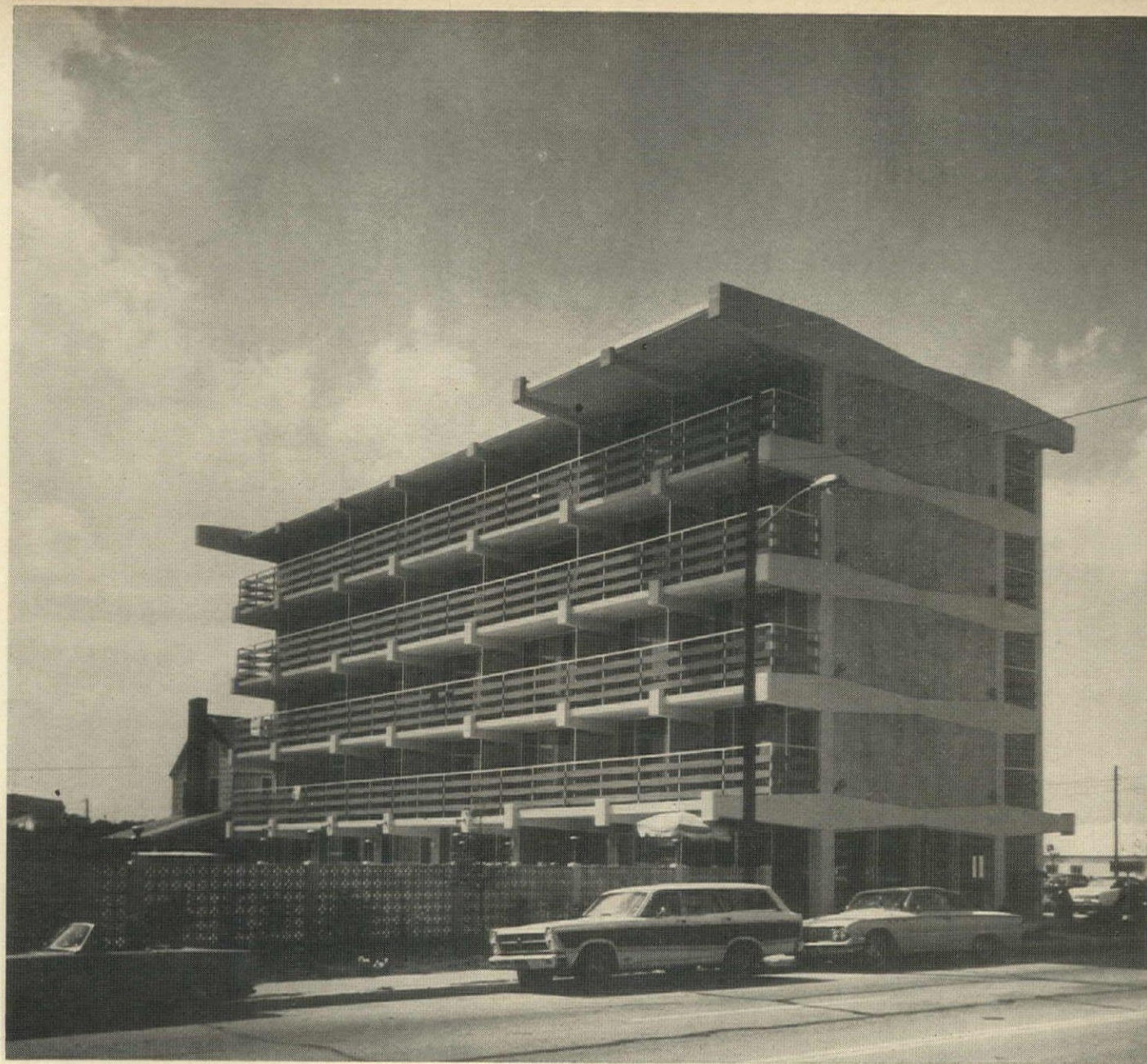
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WILLIAM BURTON ALDERMAN
Architect

NORMAN C. EDGE
Consulting Engineer

THALHIMER'S
Interior Decorators

C. S. YODER
General Contractor

THREE OUTDATED HOUSES were removed from the site of the then-proposed motel at the corner of Atlantic Avenue and 14th Street, Virginia Beach, and construction was begun in the fall of 1965. After the basement areas at the west half of the building structure were excavated, piling was driven. The basement areas include space for general storage, mechanical equipment and for linen storage. The owners requested maximum use of the property as far as number of motel suites was concerned and that the plans

also include a recreation area containing a swimming pool and sunbathing terraces. The owners and the architect concluded that the site would permit parking for thirty to thirty-four cars, thus anticipating an equal number of suites if a high-rise structure was decided upon. The building would also include about thirty percent kitchenette units for family-type clientele.

Final decisions resulted in a five story high-rise, facing south, with private balconies for sunbathing which afford a beautiful view over the beach

area. The north side contains passage balconies to each suite with access to either of the stairways located at each end or to the elevator included in the stair tower nearest the office. Each floor has a linen storage room built into the other stair tower unit and ice machines, as well as cold drink dispensers, are conveniently located. The main facade facing east is finished with Italian marble, smoked-white in color, with masonry walls of golden-yellow face brick. Balcony railings are French turquoise

(Continued on page 99)

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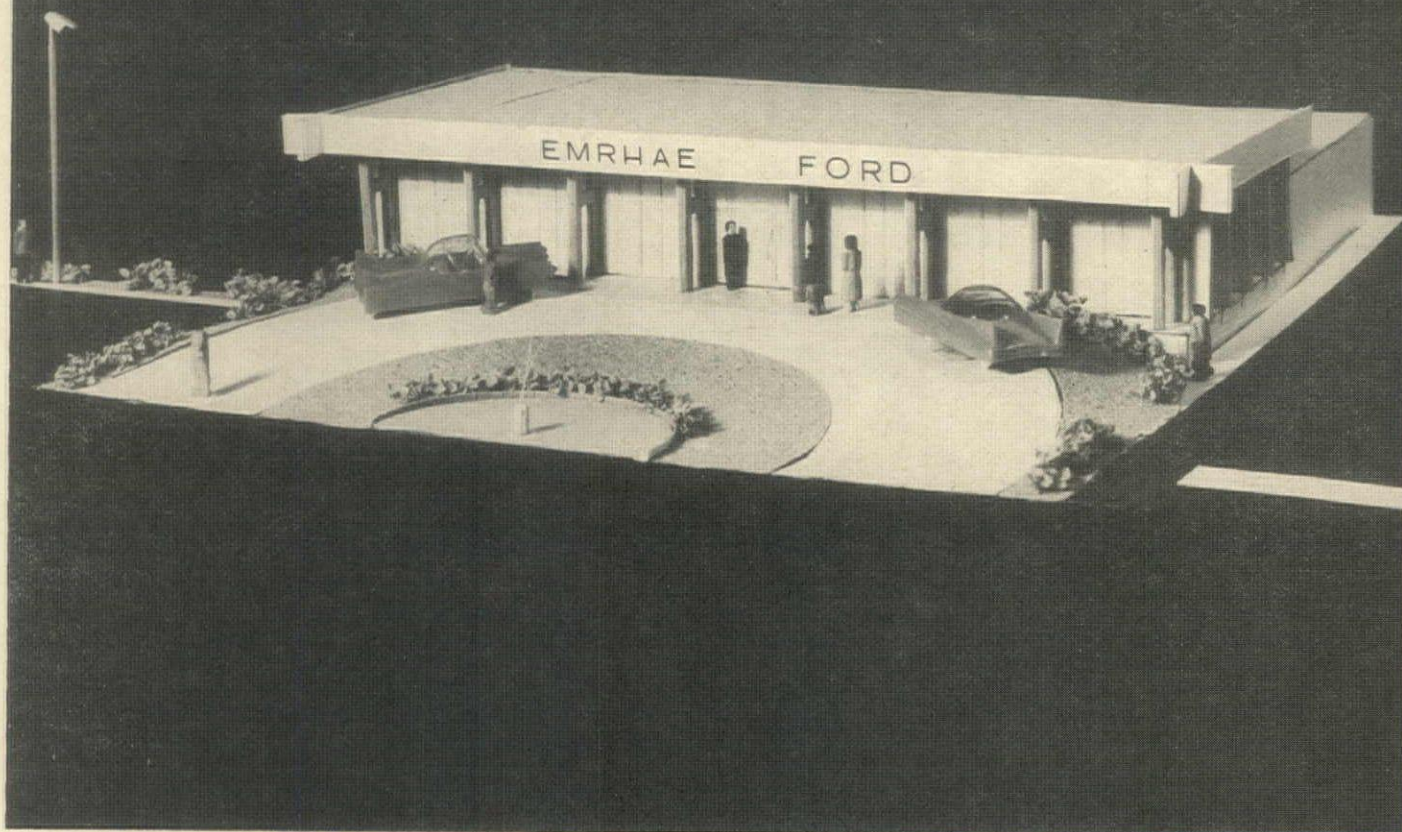
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Structural

EMRHAE FORD, INC. has been within walking distance of the beach for many years in the old 17th Street business section of Virginia Beach. This was the reason for striving for a resort atmosphere at this new location. The new site is in the hub of this rapidly growing community. The population increase in Virginia Beach has been phenomenal, from 85,000 in 1960 to approximately 150,000 in 1966.

The dealership will be located adjacent to a proposed transportation center called "Center on Wheels." This center is designed to deal in everything on "wheels" from bicycles to airplanes.

The dealership will occupy a seven-acre site fronting on Virginia Beach Boulevard and easily accessible from the Norfolk-Virginia Beach expressway, scheduled to be completed in early 1967.

The building itself will take up almost 30,000 square feet. Customers and service will be handled in two distinctly separated buildings connected with a covered "write-up" area.

FIDELITY BANKERS LIFE INSURANCE NEW HIGH-RISE OFFICE BUILDING IN DOWNTOWN RICHMOND

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THOMAS A. HANSON & ASSOCIATES
Consulting Engineers
Structural

MABRO CONSTRUCTION, INC.
General Contractor

The tallest of three new high-rise office structures in Richmond's Main Street financial area, the new Fidelity Bankers Life Building is most striking in appearance. It was also the only one of three new multi-story buildings in the area yet completed designed by a Virginia architect.

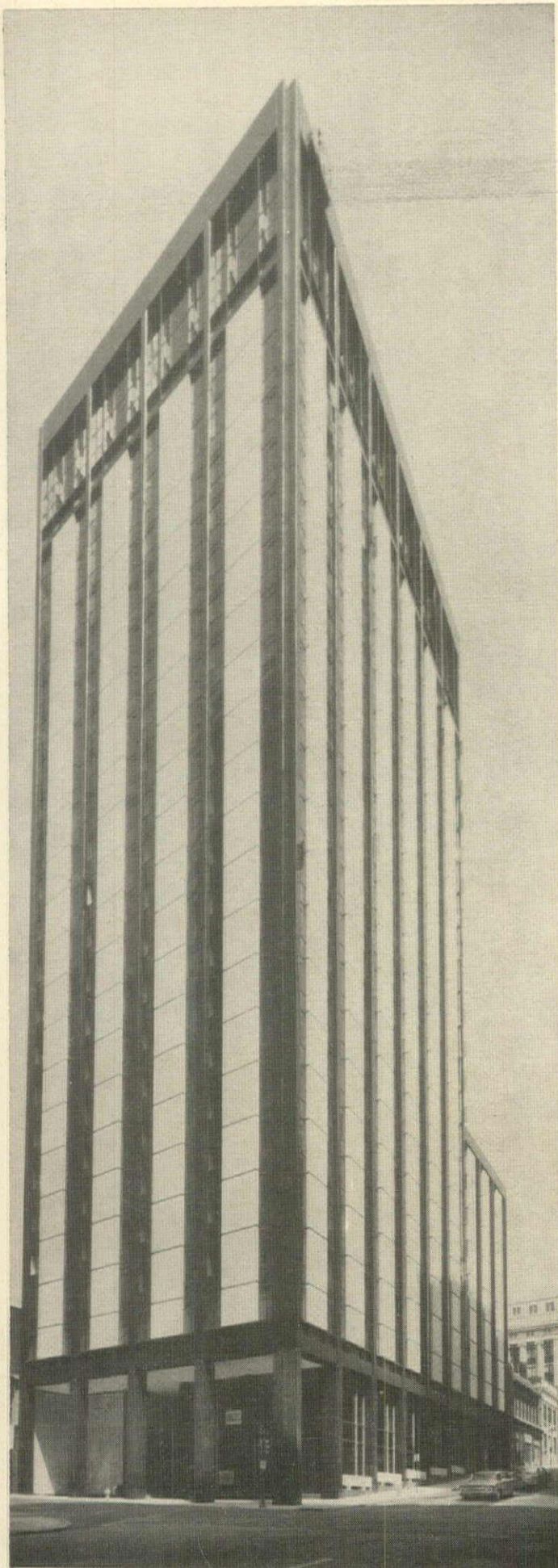
Although 24 stories high, the Fidelity building barely tops the 17-story First National Bank building across the street which was built in an era of much greater story heights.

Though originally designed to have a glass and metal panel skin, the building was finally clad in masonry, somewhat in contrast to another new high-rise across the street which was originally in masonry and finally built with a glass curtain wall.

Designed by Marcellus Wright and Partners, the building incorporates a number of innovations. Escalators from sidewalk level serve a bank on the mezzanine. The top three levels of the building are given over to the exclusive "Bull'N Bear" Club. A driveway at the rear of the building houses drive-in, "T.V." teller windows for the bank above.

Constructed on a reinforced concrete frame, the building is faced with white glazed brick. The exposed concrete frame is painted above the second floor level and clad in a polished granite of the same color at the street, or "wear" level. Steel sash and grey non-glare glass match the finish of the exposed concrete columns and create a powerful vertical composition.

Several vexing structural problems faced the architects



SUBCONTRACTORS & SUPPLIERS

Mabro Construction, Inc., Washington, D. C., general contractor. Richmond firms: J. A. Walder, excavating, sheeting, shoring; McKinney Drilling Co., caissons; Anthony J. Izzo, masonry; Richmond Steel Co., Inc., miscellaneous metal; N. W. Martin & Bros., Inc., roofing, flash & sheet metal; Economy Cast Stone Co., cast stone, miscellaneous metal, anchors, erection, contingency; The Ceco Corp., sash, curtain wall; Pittsburgh Plate Glass Co., glazing, glass, store front; John H. Hampshire, Inc., lathe & plaster; Southern Waterproofing & Concrete Co., Inc., dampproofing; McQueen Caulking Co., caulking; E. C. Ernst, Inc., electrical work, Phase I & II extras, switchboard; Hicks & Ingle Co. of Va., Inc., heating (temp.); W. W. Moore & Son, dumbwaiter; C. A. Baldwin, mechanical extras (Phase I) and Hicks & Ingle of Va., Inc., mechanical extras (Phase II).

Others were: The Knollman Co., Kensington, Md., concrete, rebars, bank vault, Phase I extras, Phase II extras, day-work, testing; Union Iron Works, Arlington, miscellaneous iron; Williamsburg Steel Products Co., Brooklyn, N. Y., hollow metal; Anning-Johnson Co., Alexandria, acoustical ceilings; Printz Floor Co., Inc., Arlington, resilient floor; Hardware Center, Inc., Alexandria, hardware; Greenwall Industrial, Tuxedo, Md., metal specialties; American Warming & Ventilating Co., Toledo, Ohio, louvers; International Steel Co., Evansville, Ind., revolving door; Lamb Sign and Directory, Washington, D. C., directory board; Cutler Mail Chute Co., Rochester, N. Y., mail chute; and Westinghouse Electric Corp., elevator & escalator.

during the design of the building. Caissons of down to 90-feet below street level were necessary in order to reach a suitable support strata. The adjacent building was found to be supported entirely on the walls of the buildings which occupied the site before and it had to be shored up until supports could be provided in the wall of the new building. During construction the principal tenant, Fidelity Bankers Life Company, developed a need for an assembly area on an upper floor larger than could be accommodated by the bay spacing. The structure at that level had to be re-designed, almost as the forming for that floor was being placed, to eliminate columns and provide deeper-than-usual girders to support the floors above.

Completion of the project was not without problems with

zoning technicalities. On four occasions the architects obtained from building authorities permission to exceed customary height and other limitations, one of which was to permit the installation of a 90-foot FM radio antenna atop the building to serve the insurance company's classical music station.

A strong addition to Richmond's skyline, the new Fidelity building fills out the Ninth and Main Street intersection with a fourth building over 200 feet high. From the upper levels it offers an unparalleled opportunity to grasp the beauty of the immediate scene, including Jefferson's great Capitol, and, in addition, affords a sweeping view above all adjacent buildings of the eastern industrial section of Richmond.

Photo showing the unusual two-story-high recessed entry with escalators leading from the sidewalk level to the upper-level bank.



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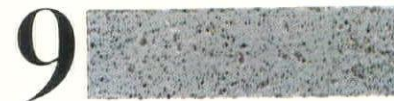
No. 530 Orange



No. 30-1 Tan



No. 40-1 Grey



No. 50-1 Grey-Green



No. 90-2 Off-White

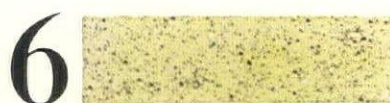
can you get



No. 550 Green



No. 10-1 White



No. 20-1 Yellow



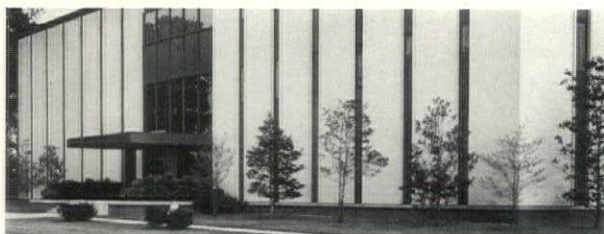
No. 60 Light Blue



No. 70 Blue



No. 80 Charcoal



One of our newest glazed brick jobs: J. P. Stevens & Company, Inc., Charlotte, N. C.
Architects & Engineers: J. N. Pease, Associates • Contractor: C. P. Street.

If we've both counted correctly, we get to the number 13.
4 Accent colors and 9 basic colors.

The Accent colors are new. They give you a greater freedom of design than we've ever been able to give you before.

The basic colors are the same as always. But with a difference. We've built a new plant to craft these glazed brick. So now you can get them faster and in greater quantities than before. This is also the only plant that makes glazed brick in the South Atlantic States.

Otherwise, Boren glazed brick are the same.

They give you the same long life. The same load-bearing qualities. And they're all built on a red body. So you get the layability and economy of a red brick and the beauty of a glazed one.

Another word:

Boren glazed brick number 13 should really be number 1. It's the glazed brick that started it all for us. The first glazed brick we manufactured.

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Indoor Tennis Facilities—Richmond

IN THE SPRING of 1966 the Westwood Club completed the first stage of its program to enlarge and renovate the Club's facilities. Included in this stage was a new "Z" shaped swimming pool 45' wide by 85' long; a metal building 120' x 210' enclosing four regulation tennis courts; a tennis lounge 11' x 105' elevated 9' above and overlooking the enclosed tennis courts; a formal bar and lounge; a renovated dining room; a remodeled bath house serving the tennis building and swimming pool; locker rooms; steam bath; and tennis pro-shop.

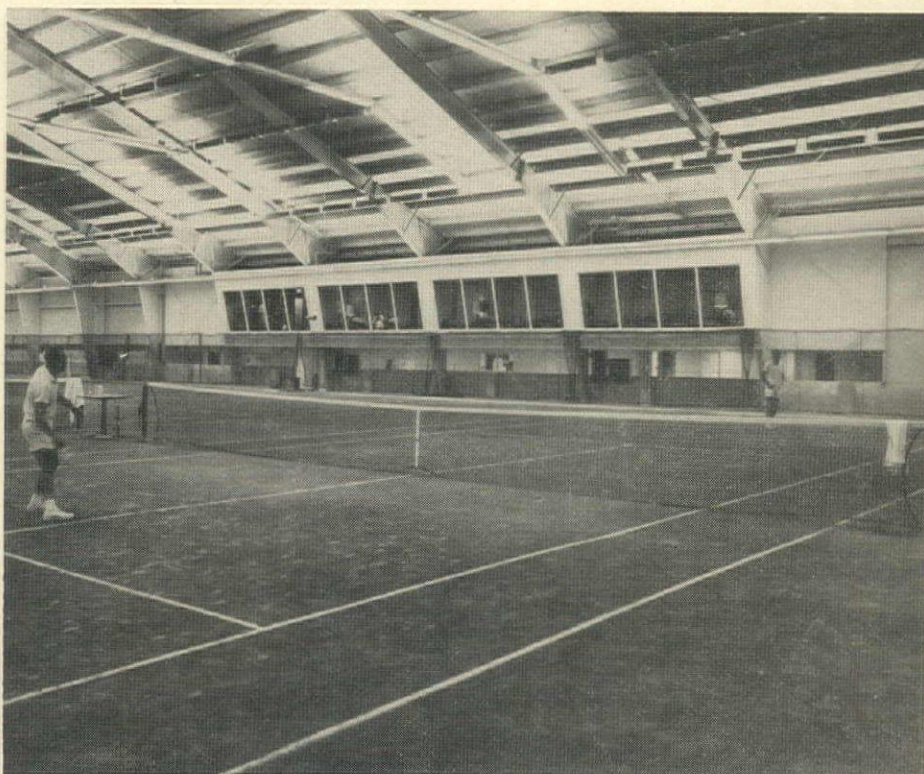
The Westwood Club now provides the first enclosed tennis facilities in the state of Virginia. Its future expansion, now in the planning stage, will provide interior handball and squash courts in addition to a completely remodeled exterior to blend with the homes of the neighborhood.

The tennis building is a prefabricated structure of steel bents with pre-finished aluminum siding and roofing, located in the area of the old swimming pool and outdoor dance floor. Connecting the tennis building with the existing clubhouse is a tennis lounge which has a glass wall overlooking the tennis courts so that members have an opportunity to watch, from attractive and tastefully decorated facilities, the players using the enclosed tennis facilities.

Interior design and furnishing of the tennis lounge, dining room and formal lounge and bar were handled by Milton Glaser and Associates.

Atlantic Aluminum & Steel Company, Incorporated of Staunton, with the owners, served as general contractor for the project. Atlantic Aluminum & Steel Company also supplied the steel and steel roof deck.

Subcontractors and suppliers from Richmond were: P. E. Eubank & Co., foundations and concrete; W. M. Walder, Jr., masonry; R. Willison Roofing Co., roofing; Carpetland, carpeting; W. L. Wachter, electrical work; Claude B. Allen, Inc., air conditioning, ventilating; Wachter & Allen, heating; Gayle S. Mann, Jr. & Co., swimming pool. ▲



VIEW OF THE INDOOR COURTS

BROOKS & WOMACK

— Architects —

THE OBSERVATION LOUNGE





THE CIRCULAR ROTUNDA IN NORFOLK

GLENN YATES, AIA and JAMES D. BOGGS, AIA
Architects

JOE D. GLENN, JR.
Structural Consultant

VANSANT & GUSLER
CONSULTING ENGINEERS
Electrical & Mechanical Consultants

REID & HOPE
General Contractors

NORFOLK'S ROTUNDA exemplifies flexibility in the round. Its striking circular design adds architectural stature to the growing new Norfolk. The building is 118 feet in diameter and rises seven stories skyward. Located on St. Paul's Boulevard in downtown Norfolk, it is within walking distance of governmental headquarters, banking fa-

cilities, shopping areas, restaurants and business districts.

Radiating out from the central core of the Rotunda are office spaces which are both functional and adaptable. Each office has individual temperature and atmosphere controls. Acoustical ceilings, sound resistive dry wall construction and aluminum windows with

gray glass are among additional features of each of the offices. Each office area is further enhanced esthetically by a panoramic view of the city afforded by the building's design.

The compact central core contains the service rooms and mechanical equipment of the building. Here are housed the stairways and high speed

elevators and the core is encircled on each floor by modern hallways and accesses to each office.

Additional features of construction include exterior walls of precast concrete panels with exposed aggregate, floors of concrete covered with carpet or with vinyl asbestos tile.

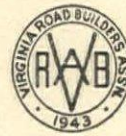
Free, on-site, parking for up to 250 cars is provided for tenants and clients in this new (September 1966) and unusual structure.

SUBCONTRACTORS AND SUPPLIERS

(All from Norfolk unless otherwise noted)

Reid & Hope, Suffolk, general contractor, excavating, foundations & concrete, carpentry; Welch Pile Driving Corp., piling; Southern Materials Co., Inc., ready-mixed concrete; Snow, Jr. & King, Inc., masonry; Standard Iron & Steel Co., Inc., steel, steel grating, handrails; Roof Engineering Corp., roofing; Dixie Exposiac, Inc., Mt. Airy, N. C., cast stone work; North American Aluminum Corp., Parchment, Mich., windows, window walls; Walker & Laberge Co., Inc., glazing; E. Caligari & Son, Inc., painting, plastic wall finish; Miller Mfg. Co., Inc., Richmond, paneling, millwork; U. S. Building Service, waterproofing; C. C. Foreman & Son, Inc., insulation; McL. T. O'Ferrall & Co., acoustical; John Bros., plaster; Ferrell Linoleum & Tile Co., Inc., ceramic tile; Grover L. White, Inc., resilient tile; Withers-Clay-Utley, Inc., steel doors & bucks; E. C. Ernst, Inc., lighting fixtures, electrical work; Kohler Co. fixtures by Leo T. Zoby, Jr., plumbing; Baker & Co., air conditioning, heating, ventilating; Terminix Co., Inc., soil poisoning; Birsch Construction Corp., bit. paving & curbs; Westinghouse Electric Corp., Elevator Div., elevators; Cutler Mail Chute Co., Rochester, N. Y., mail chute; John H. Mayo & Associates, Inc., metal toilet partitions; Door Engineering, fin. hardware; The Ceco Corp., Washington, D. C., metal forms; Aldo Construction Corp., Portsmouth, storm drainage; R. E. Lawrence & Co., Portsmouth, placing reinf.; Hall-Hodges Co., Inc., reinf. steel; Universal Form Clamp Co., Baltimore, Md., forming mtl.; and Patent Scaffolding Co., Inc., Baltimore, Md., shoring materials.

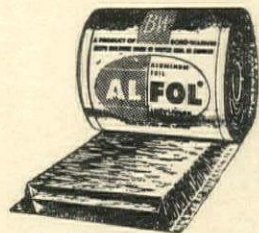
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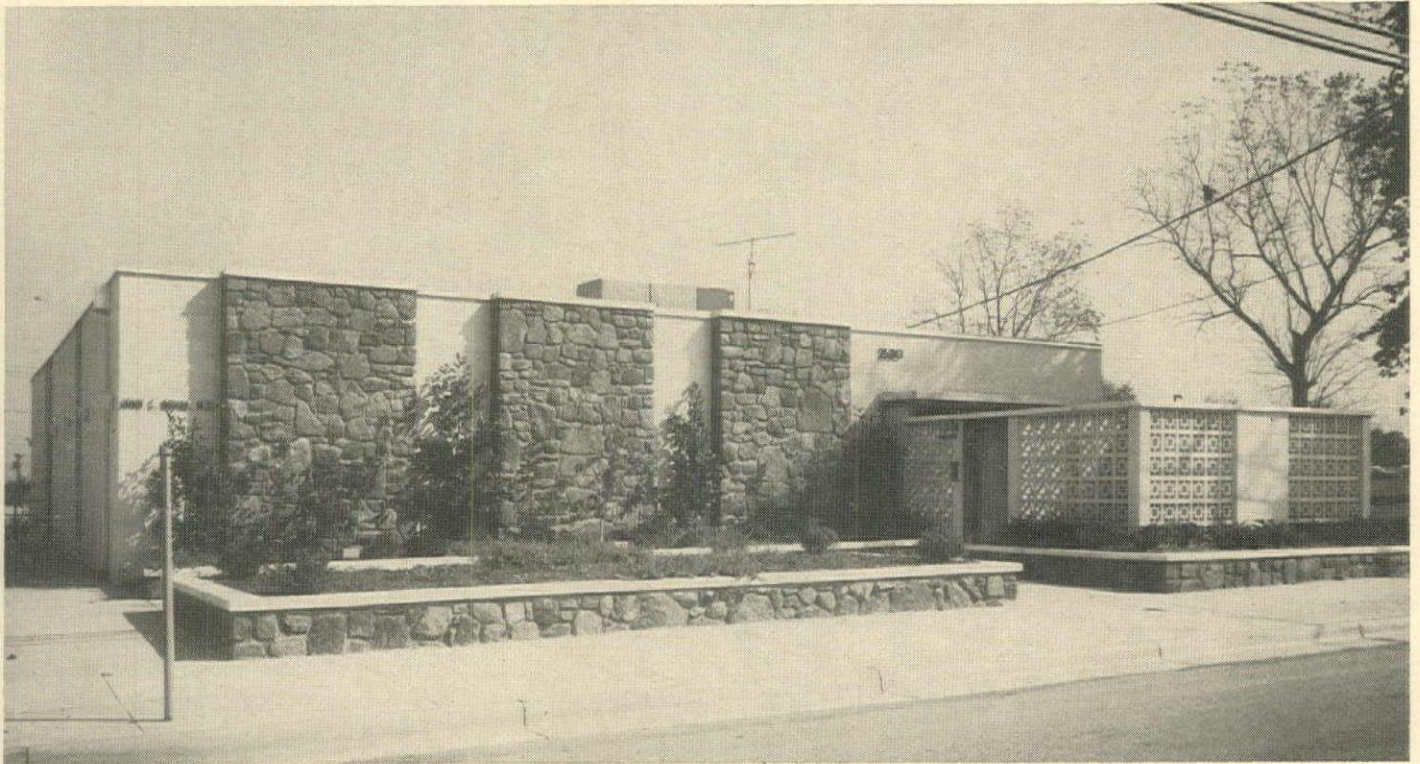


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St. Reg. 4087

PHYSICIAN'S OFFICE BUILDING IN LYNCHBURG



C. WILLARD RHODES, Architect

ROBERT H. FEAGANS CO., INC.—General Contractors

▲ This new office building, which was completed last year, features a private entrance court and pleasant surroundings. This particular structure was designed for a psychiatrist, and includes rental space of two additional suites. The courtyard, which is screened from the street with decorative block, is well appointed with statuary, fountain, and a small Oriental garden. This area provides protection of the patient from the street, while still offering pleasant surroundings while he awaits his appointment. Interior walls are of prefinished pecan paneling, with inlaid walnut strips, and of vinyl coated sheetrock. Floors are covered with seamless floor covering and accented with gaily appointed rugs. The ceiling is coffered "Luminaire" ceiling by Armstrong and

all major-area lighting is controlled by dimmer-switches.

The owner's office, which occupies about one-third of the space, contains a reception area, three private offices, group therapy room with kitchenette, library and examination room. All

shelving and cabinets are built-in, of walnut.

The exterior features elevated field-stone planters and stone panels. The voids of these projected panels are utilized for housing mechanical duct-work and plumbing piping. ▲

SUBCONTRACTORS AND SUPPLIERS

Robert H. Feagans Co., Inc., Lynchburg, was the general contractor and also did the foundations, carpentry, weatherstripping and insulation; Other Lynchburg firms were: T. B. Dornin-Adams Co., Inc., roofing and waterproofing; Pittsburgh Plate Glass Company, glazing; Lynchburg Ready Mix Concrete Co., Inc., concrete; W. E. Daniel, masonry; G. C. Scott and Sons, painting; Manson & Utley, Inc., acoustical and wood flooring; Luther T. Cress Tile Co., Inc., ceramic tile; Lynchburg Seamless Floor Co., resilient tile; Montague-Betts Co., Inc., steel, steel roof deck, steel doors and bucks, hand-rails; J. B. Moore, electrical work and plumbing fixtures; Bill Moseley, plumbing; Southern Air, Inc., air conditioning, heating; Guy Smith Hardware, Inc., hardware.

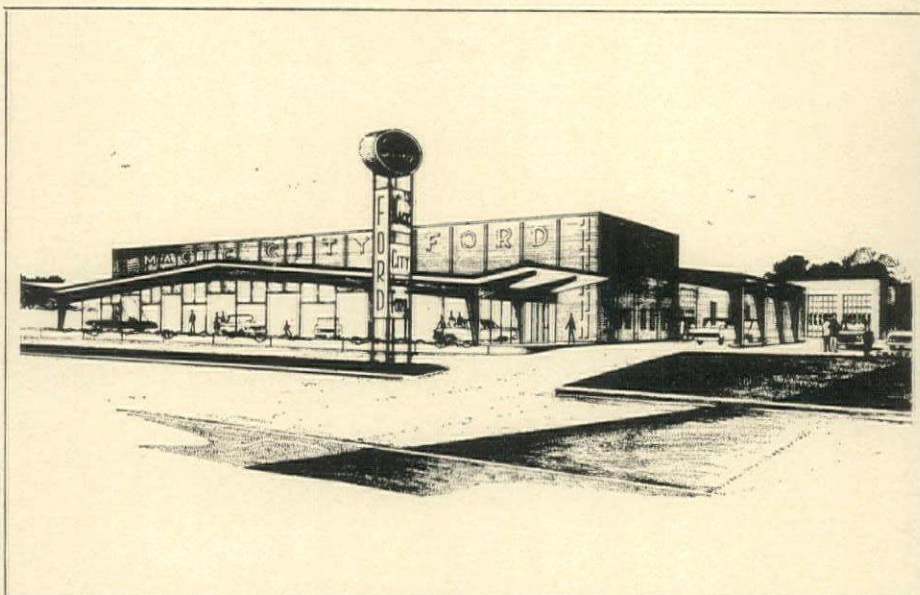
Other firms were: May Brothers, Inc., Forest, excavating; Virginia Prestressed Concrete Corp., Roanoke, prestressed concrete; Cecil M. Worsham-Stone Masonry Contractor, Madison Heights, stone work; J. E. Sears & Co., Inc., Appomattox, millwork. Paneling was by Georgia-Pacific Plywood Co., and lighting fixtures by Armstrong Cork Company and Silvray-Lightcraft.

MAGIC CITY MOTOR CORPORATION

J. GARRY CLAY

Architect
&
Interior Designer

J. M. TURNER
& COMPANY, INC.
General Contractors



THE WILLIAMSON ROAD quarters of Magic City Motor Corporation has been judged a regional first-place winner in the annual "Building of the Year Awards Program" of Stran-Steel, manufacturer of the pre-engineered metal building.

C. R. McDaniel, president of Stran-Steel, said: "The unique design of the building has been mentioned in 17 national magazines." He called the structure "an outstanding example" of integrating design with functional construction.

The award was given for excellence of design, appearance and layout, quality and speed of erection and construction. Customer satisfaction with building and dealer service and adaption of buildings to functional requirements of the customers were also factors.

The building, which is located just beyond the intersection of Orange Ave. and Williamson Road in Roanoke, is an

imposing structure with 4,247 square feet of highly illuminated show room. J. Garry Clay, the architect, was confronted with a major problem in providing sufficient heat and light for the high-ceilinged showroom. Armstrong Luminaire was chosen for this installation and provides excellent illumination while delivering conditioned air, providing acoustical control and a completely finished ceiling surface. Armstrong featured the building in its bi-monthly trade journal "TONE", with a four-page color spread. It was also featured in advertisements which Armstrong presented in a number of trade magazines.

The uniquely tapered roof line, over the front of the showroom, adds accent

and color to the pure white of its walls, floor and ceiling. A large covered carport provides the customer with a convenient entrance to the service department which is located on the first floor of the rear of the building. The large expanse of driveway and parking lot with two main entrances to the main highway add to the air of spaciousness, as well as providing another convenience to customers and personnel.

The exterior portion of the building is finished in brick, with the interior in concrete masonry. The service department is spacious and efficient. A completely separated paint spray department, with baking room, insures against paint spray filtering into other departments.

A sales room, lounge and private offices, as well as rest rooms and utility rooms, complete the first floor. Main offices, employees' lunch room and lounge on the second floor, all finished in pastel colors, provide a pleasant working background for the executives and office personnel.

Service and storage departments at the rear of the second floor are serviced by a 2,500-pound Dover elevator. Pneumatic message carriers and an intercom system guarantee fast and efficient service.

The entire building of approximately 50,000 square feet was built at a cost of \$400,000.00

SUBCONTRACTORS & SUPPLIERS

From Salem: J. M. Turner & Co., Inc., general contractor, excavating, piling, foundations, concrete, masonry, carpentry & painting; Pittsburgh Plate Glass Co., glazing.

From Roanoke: Roanoke Iron & Bridge Works, Inc., steel, steel roof deck; Va. Prestressed Corp., pre-stressed concrete floors; Southern Roof Deck Co., Inc., poured vermiculite concrete; Valley Roofing Corp., roofing; A. L. Horwitz Co., windows; V. Poff & Son, Inc., ceramic tile; Magic City Tile & Carpet Co., resilient tile; Hodges Lumber Corp., millwork; Cates Building Specialties, Inc. & Roanoke Engineering Sales Co., Inc., steel doors & bucks; New River Electrical Corp., electrical work; Weddle Plumbing & Heating, plumbing (Crane fixtures); G. J. Hopkins, Inc., air conditioning, heating, ventilating; Dover Elevator Co., elevator; and Graves-Humphreys, Inc., hardware.

Others were: Shields, Inc., Winston-Salem, N. C., acoustical; and Steel Enterprises, Blacksburg, Stran Steel portion.

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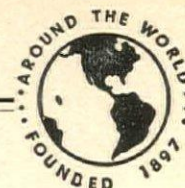
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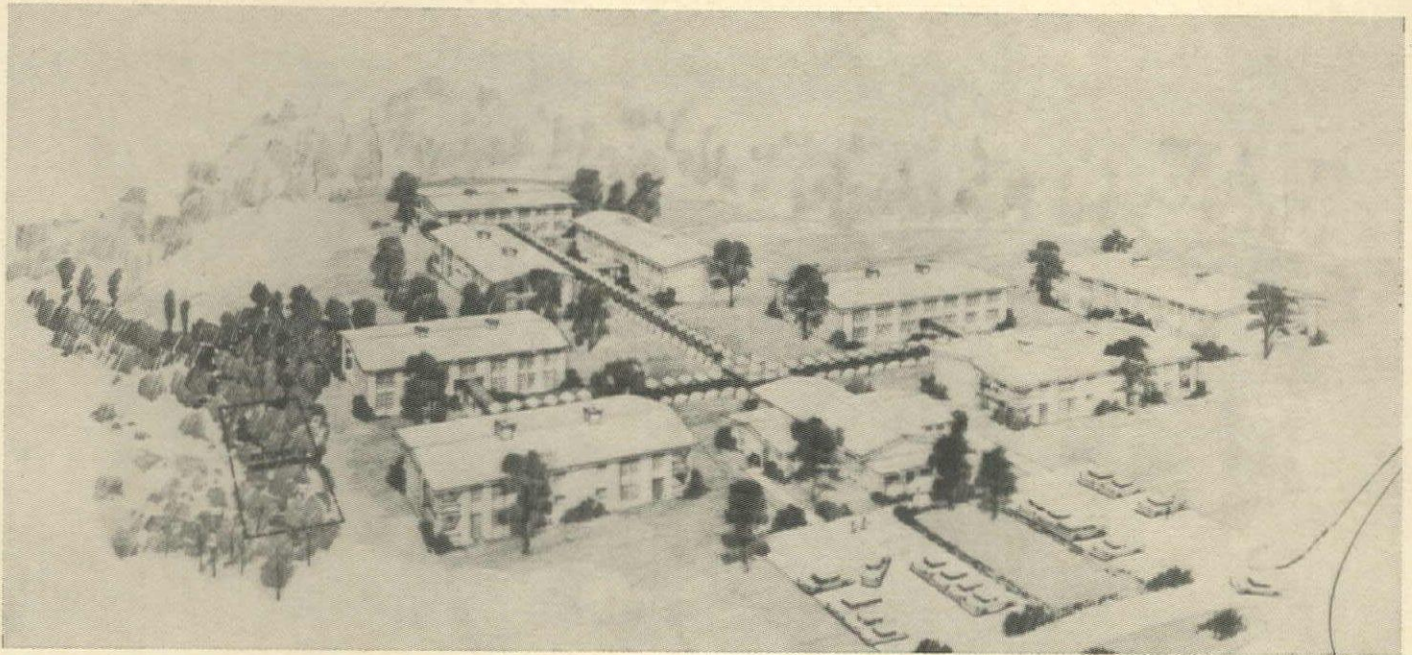


DURHAM,
NORTH CAROLINA

GREENSBORO, N. C.

HENDERSON, N. C.

ROXBORO, N. C.



DORMITORY AND SERVICE BUILDING COMPLEX FOR LYNCHBURG TRAINING SCHOOL AND HOSPITAL

CLARK, NEXSEN & OWEN
Architects

WILLIAM T. ST. CLAIR
Structural Consultant

S. R. GAY & COMPANY
General Contractors

WILEY & WILSON
Mechanical & Electrical Consultants

■ Scheduled for completion in October of this year is the new "Dormitory and Service Building Complex" at the Lynchburg Training School & Hospital.

■ An entirely new concept in institutional planning, this campus style grouping of eight dormitories, providing a total of 416 beds with a central service core, was designed by Clark, Nexsen and Owen-Architects of Lynchburg.

■ Constructed of masonry bearing walls and roof rafters of steel tube bents, the buildings are faced with brick veneer and steel double-hung window walls with intermediate ceramic tile panels.

■ Interior finishes are basically CMU walls with epoxy paint wainscot, acoustical tile ceilings and ceramic tile in wet areas. Floors generally will be vinyl asbestos and ceramic tile.

■ Containing approximately 9,000 square feet, each dormitory will house 52 patients with adequate lounge space and outdoor porches on each floor.

■ The focal point of this unique plan is the service building, a one-story structure of 4,300 square feet that houses the central reception center, reading room and lounge, handicrafts and clinic, as well as central storage and supply, laundry mechanical room and visiting rooms.

■ Future plans call for an additional dormitory and covered walkways connecting all units.

Subcontractors & Suppliers

From Lynchburg: S. R. Gay & Co., general contractor; Southern Materials, concrete; Montague-Betts Co., Inc., steel, windows, window walls; Pittsburgh Plate Glass Co., glazing; J. D. Crance Co., painting, plastic wall finish; Paul Styles Plastering Co., insulation, acoustical, plaster; W. A. Rice Electric Co., Inc., electrical work; Marvin Moseley Plumbing and Heating, plumbing (American Standard), heating, ventilating; and Bailey-Spencer Hardware Co., Inc., hardware.

Others were: May Bros., Inc., Forest, excavating; Zero Weatherstripping Co., Bronx, N. Y., weatherstripping; and from Roanoke: I. N. McNeil Roofing & Sheet Metal Works, roofing, waterproofing; Valley Lumber Corp., millwork; Cates Building Specialties, Inc., steel doors & bucks. Standard Tile Co., Inc., Staunton, stone work, ceramic tile, resilient tile, terrazzo.

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St. Paul's Lutheran Church

IN SANDSTON

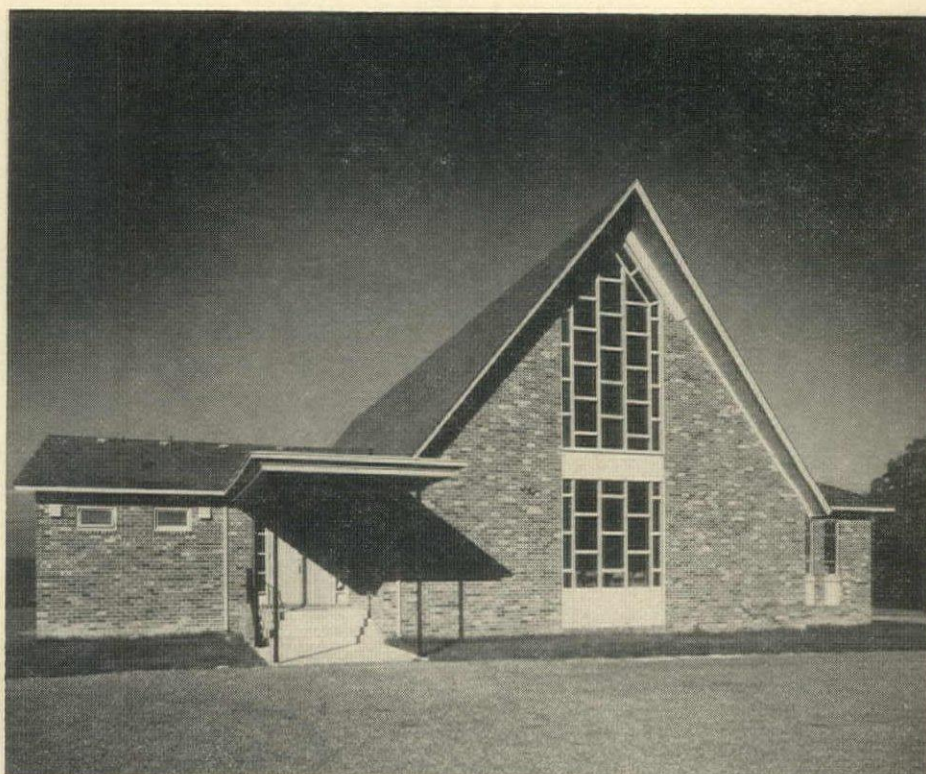
SEVERAL YEARS AGO a small mission congregation under the auspices of the Lutheran Church, Missouri Synod, was organized in Sandston. After many weeks of surveying the neighborhood, their carefully studied program required, among other considerations, that the first provision to be made should be for worship. It was therefore incumbent upon the architect to provide first of all a Sanctuary, and after the space requirements for worship had been satisfied, to give as much additional area for classrooms and a parish hall as the limited budget set up by the Mission Board would allow.

The design that resulted from these requirements was a Sanctuary with temporary classrooms and a parish hall in the rear, with a machinery room and kitchen in one wing and the pastor's study and rest rooms in the other wing. With these facilities in the rear, there was room left in the front to provide a Chancel and pews to seat 190 persons for worship.

This is the first unit of an ultimate plan and as such was built with maximum conservation of funds. The building was completed at a cost of \$12.75 per square foot which included the grading of the lot and the paving of a parking area. The future will see additional extension of the wings to provide for more church-school space and a larger parish hall area. When the second phase is accomplished, the temporary rooms in the rear of the present building will be removed and pews will be extended to provide a Sanctuary that will seat 340, with a choir loft above to seat twenty. The present building (first phase) is constructed in a manner which will allow the Sanctuary to be expanded without making changes to the structural or heating systems, and with but few changes to the electrical system.

O. E. Ziebe, from Richmond, was the general contractor and also did the roof deck and carpentry. Also from Richmond: Coor & Woodfin, Inc., masonry; R. Willison Roofing Co., roofing; Sash Door & Glass Corp., glazing; Harris Painting Contractors, painting; Manson & Utley, Inc., acoustical; H. Beckstoffer's Sons, millwork; Pleasants

(Continued on page 102)



Above photo shows an exterior view of St. Paul's Church while photo below shows an interior view of the church, looking toward the altar.



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— Architects —

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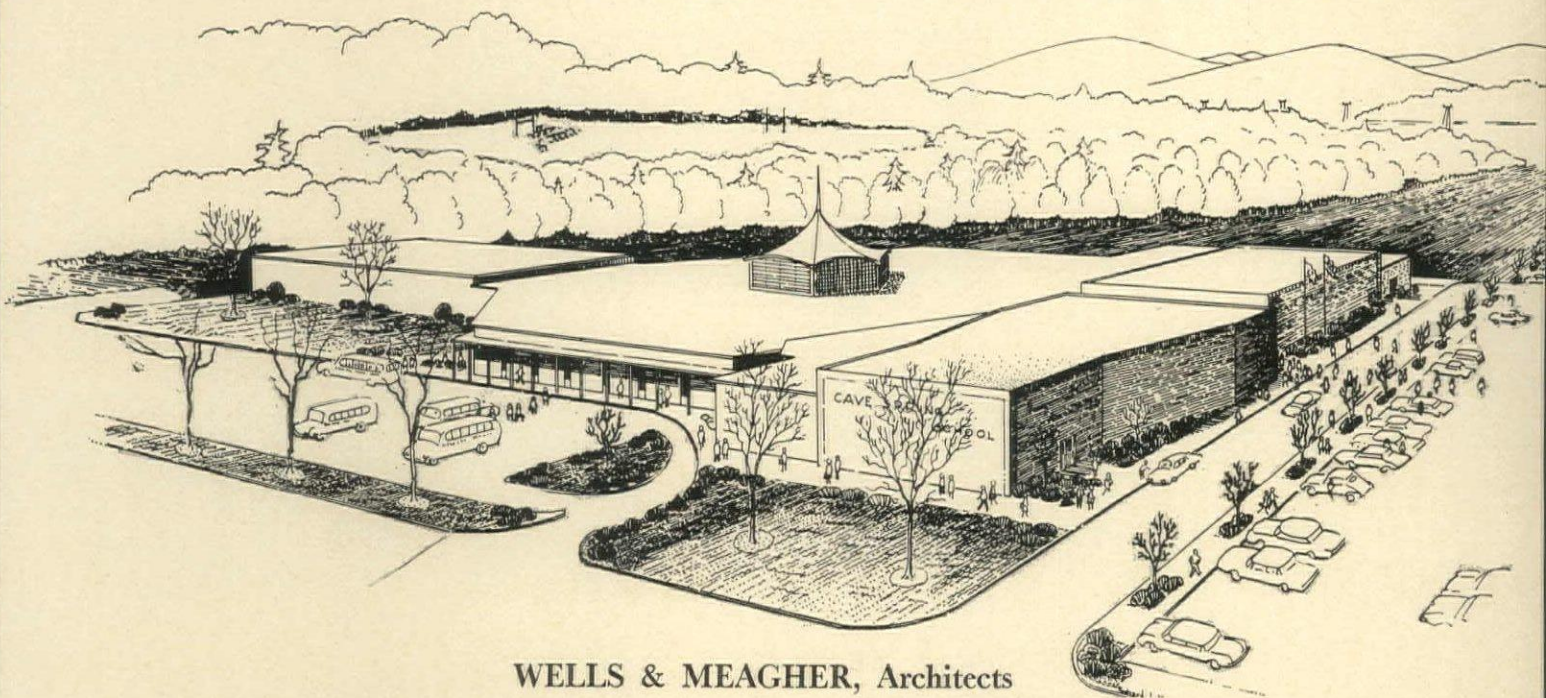
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KIMBALL,
WEST VIRGINIA

Cave Spring High School



WELLS & MEAGHER, Architects

SOWERS, RODES & WHITESCARVER

Mechanical & Electrical Engineers

BOLT, BERANAK & NEWMAN, INC.

Acoustical Engineers

THE NEW Cave Spring High School is being built on a 40-acre site in Roanoke County. The building is one-story with a partial basement area that houses the shop, shop classroom and drafting room.

The classroom area is hexagonal in shape and surrounds the library at the center. Twenty-five classrooms and four laboratories are in this area.

Other facilities in the school include an auditorium seating over 1,100 pupils, study hall, multi-purpose room, gymnasium, music room, art room, home economics department, cafeteria and

administrative suite.

Site development includes football field, baseball field, track and paved parking areas for automobiles and busses.

The school is all electric and air conditioned with the exception of the gymnasium and cafeteria.

The area of the building is approximately 123,000 square feet. Structure consists of steel frame with steel bar joists and metal roof deck. The exterior finish is jumbo brick with aluminum entrance work and steel windows. Interior finishes are primarily terrazzo

floors, concrete block walls and acoustical tile ceilings. Glazed tile wainscots are provided in the corridors and cafeteria. The administrative area, library and study hall have carpeted floors. The auditorium and music room have carpeted aisles, plastered ceilings and acoustical panels on the walls. Gymnasium floors are wood Powerlock with glazed tile wainscot and exposed deck ceiling.

The school is expected to be completed by September, 1967, with the exception of the auditorium and gymnasium which are to be completed by December, 1967.

Subcontractors & Suppliers

Roanoke firms were: J. H. Fralin & Son, general contractor, excavating, foundations, concrete, masonry, carpentry, weatherstripping and insulation; Valley Roofing Corp., roofing & waterproofing; The Hampshire Corp., acoustical, plaster, resilient tile; Byrd Tile & Terrazzo Co., ceramic tile, terrazzo; Valley Lumber Corp., millwork; J. H. Pence Co., lockers, laboratory equipment, gymnasium seating and auditorium seating; and Roanoke Engineering Sales Co., Inc., steel doors & bucks.

Others were: Montague-Betts Co., Inc., Lynchburg, steel, steel roof deck & handrails; The Staley Co., Inc., Richmond, windows; Salem Glass Corp., Salem, glazing; W. E. Robertson Co., Salem, painting; F. Graham Williams Co., Inc., Atlanta, Ga., structural tile; Powerlock Floors, Inc., Alexandria, wood flooring; Clear-Bullock Electrical Co., Inc., Martinsville, electrical work; and Herman Harlow, Buchanan, plumbing, air conditioning, heating & ventilating.

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■ This is the newly remodeled and enlarged wholesale grocery distribution center for Galanides, Inc., on Cooke Avenue near Virginia Beach Boulevard. The firm moved here in 1958 when they were displaced by the redevelopment of downtown Norfolk, and the remodeling was completed in the spring of this year.

The construction consisted of conventional concrete masonry walls with long span steel joists and steel roof deck. The covered canopy provides shelter for the unloading of nine trucks simultaneously. ■



Subcontractors & Suppliers

(All Norfolk firms unless otherwise noted)

Lindemann Construction Co., general contractor, excavating, foundations, concrete, masonry, carpentry, painting; Chesapeake Steel, Inc., steel, steel roof deck; E. A. Odend'Hal & Co., Inc., roofing; A. C. Gordon & Co., plaster; Hall-Hodges Co., Inc., steel doors & bucks, hardware; Austin Electric Co., electrical work; Kemp's Plumbing & Heating Corp., plumbing. Also, Recony Sales & Engineering Corp., Richmond, coolers and refrigeration.

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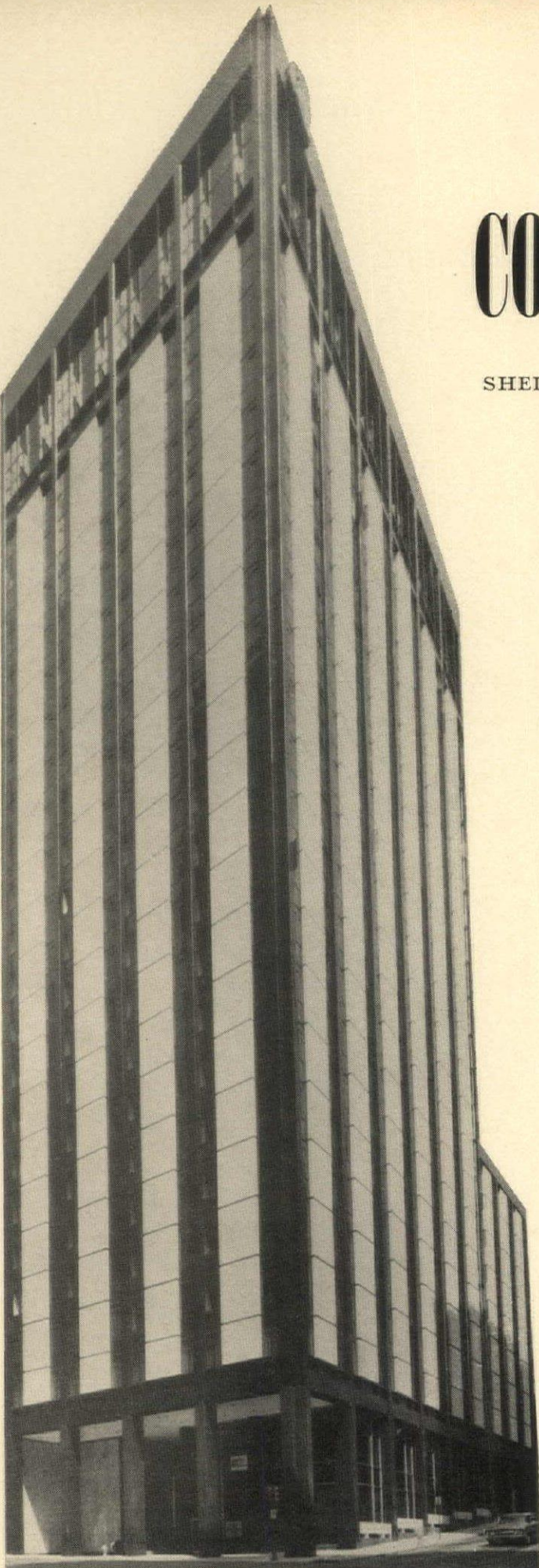
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AIA HOLDS SIX PERCENT LIMITATION TO BE OBSOLETE

THE REQUIREMENTS of modern design and building construction have made the 27-year-old federal limitation of six percent on architectural and engineering fees for government work obsolete and detrimental to the economic interests of both the government and the design professions.

This is a conclusion reached by The American Institute of Architects and contained in a study of statutory architect-engineer fee limitations delivered today to the General Accounting Office.

The AIA position paper, prepared to assist the GAO in its government-wide study of interpretations and applications of fee limitations, urges repeal of the six percent limitation originally established by Congress in 1939.

The Institute points out that for nearly three decades, the fee limitation has been written into law for other agencies without any recorded Congressional examination of the rationale for the limitation or of changed conditions.

Among other findings, the study maintains that:

The cost of architectural services has risen faster than the cost of construction, due primarily to the complexity of today's buildings and component systems;

The limitation, while considered fair in 1939 for relatively simple structures, is now completely unrealistic for laboratories, electronic facilities, remodeling and rehabilitation services and specialized structures, such as nuclear facilities;

Because of the limitation, an architect frequently cannot allow as much time for research and design as the project needs, thus preventing possible cost-cutting design solutions.

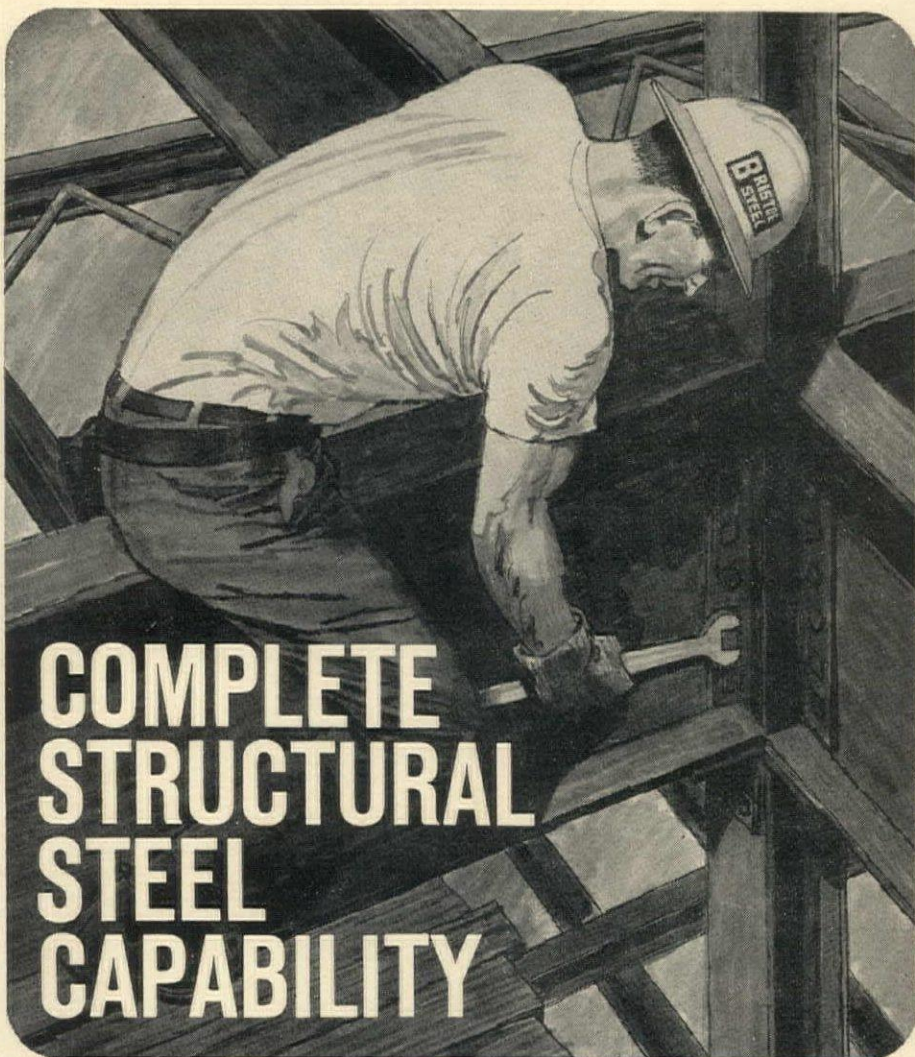
The AIA report, containing statements of architects throughout the country, concludes also that the increasing probability of financial loss works against the best interests of the government because of a resultant loss of interest in federal projects by outstanding professionals.

A long time-lapse between conception of a project and completion of the structure, with the architect's fee based on an estimated construction cost, which does not take into consideration changing economic factors during the design and building process, discourages many professionals from accepting federal work, the study asserts.

The AIA report to the GAO calls for repeal of the statutory limitation and suggests instead that an architect's fee

should be negotiated on the basis of the size, nature and complexity of specific projects, the usual procedure with private clients.

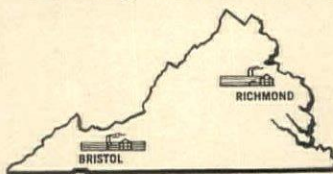
The Institute also recommends a government-wide review of construction practices, including methods of negotiating fees, to provide for uniform procedures throughout all agencies. Different procedures used by several agencies are inefficient and expensive, the report maintains.



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AIA NEWS

(Continued from page 9)



ELDON L. KARR

For the past year Karr has been a draftsman with Thompson and Payne in Roanoke, after studying for two years at the University of Virginia Extension in the Star City. A native of Washington, where he was born March 5, 1942, he also attended V.P.I. for one year, following his graduation from Roanoke's Jefferson High School.

MICHAEL B. NEWBILL

A graduate of the University of Virginia, where he received his Bachelor of Architecture Degree last June, he joined the firm of Oliver & Smith in Norfolk at that time. In 1958, Newbill graduated from Granby High's Night School after attending Maury and Thomas Jefferson in Richmond and the Admiral Farragut Academy in Toms River, New Jersey. He was born in Washington, June 29, 1940.

(Please turn the page)

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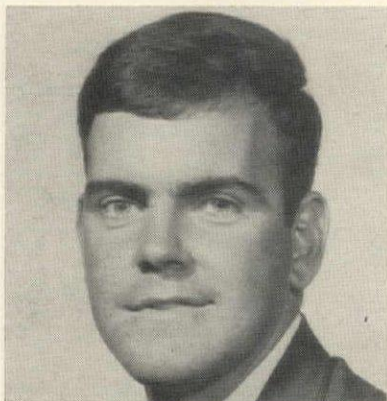
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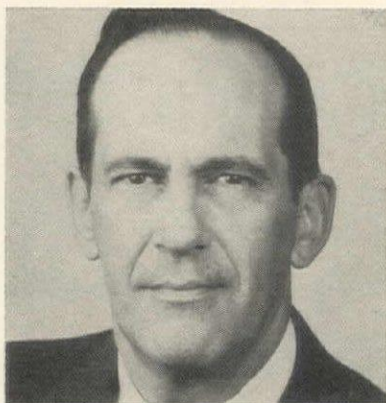
AIA NEWS

(Continued from page 79)



ROBERT E. O'CONNOR, JR.

Born January 10, 1943 in Portsmouth, O'Connor is currently an architectural draftsman with the Buildings and Grounds Division of the Medical College of Virginia. Following his graduation from Benedictine High School, he attended R.P.I. where he received an Associate in Science Degree in Architectural Drafting and Design Technology last June.



PASQUALE J. VERNAMONTI

An architectural draftsman with the Roanoke firm of Thompson and Payne, Vernamonti was born in Philadelphia, Pennsylvania on May 3, 1923. Following three years at the South Philadelphia High School, he attended the Drexel Institute of Technology.

(For Special Meeting Report,
please turn the page)

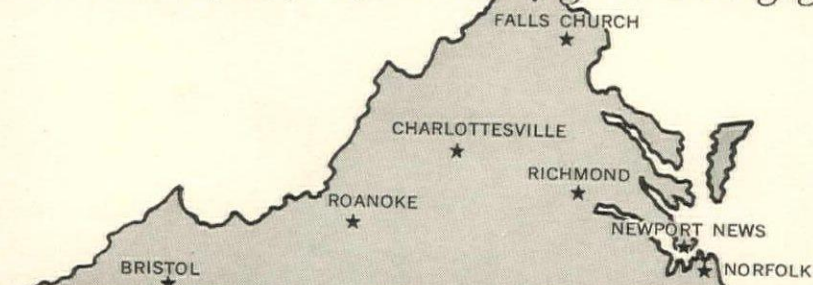
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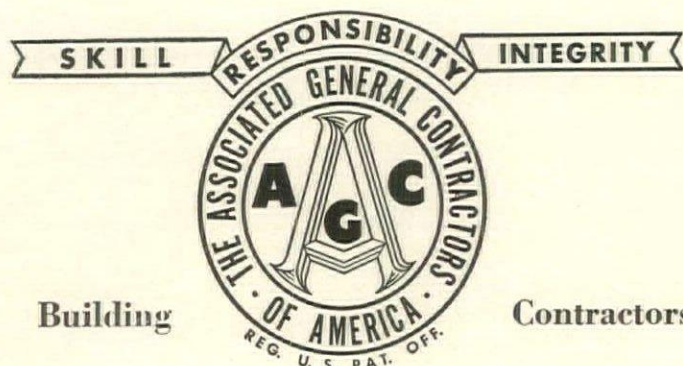
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HONOR AWARDS HIGHLIGHT

AIA MEETING

DAVID WARREN HARDWICKE
AND ASSOCIATES — WILLIAMS
AND TAZEWELL AND
ASSOCIATES WIN
TOP-RANKING AWARDS

HONOR AWARDS for architectural work completed during the past five years were presented to two Virginia firms and three other architectural firms were cited for Awards of Merit during the Fall meeting of the Virginia Chapter, the American Institute of Architects, November 3-5 at Charlottesville's Thomas Jefferson Inn.

A.I.A. Dinner, Charlottesville, November 4, 1966. Top photo (left to right): David Sides, President, Datapro; Howard A. Keister, Jr., President A.I.A.; C. Herbert Wheeler, A.I.A.

Bottom photo (left to right): David Warren Hardwicke, A.I.A.; Mrs. Evelyn Hardwicke; David N. Yerkes, F.A.I.A. (Mr. Hardwicke was a double award winner.)

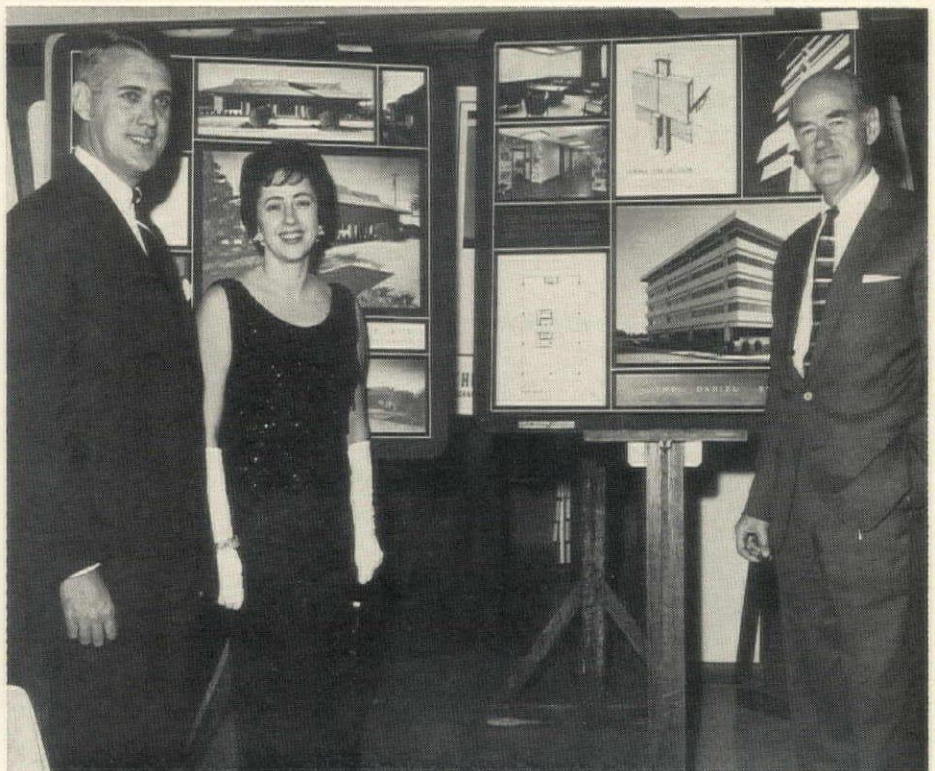
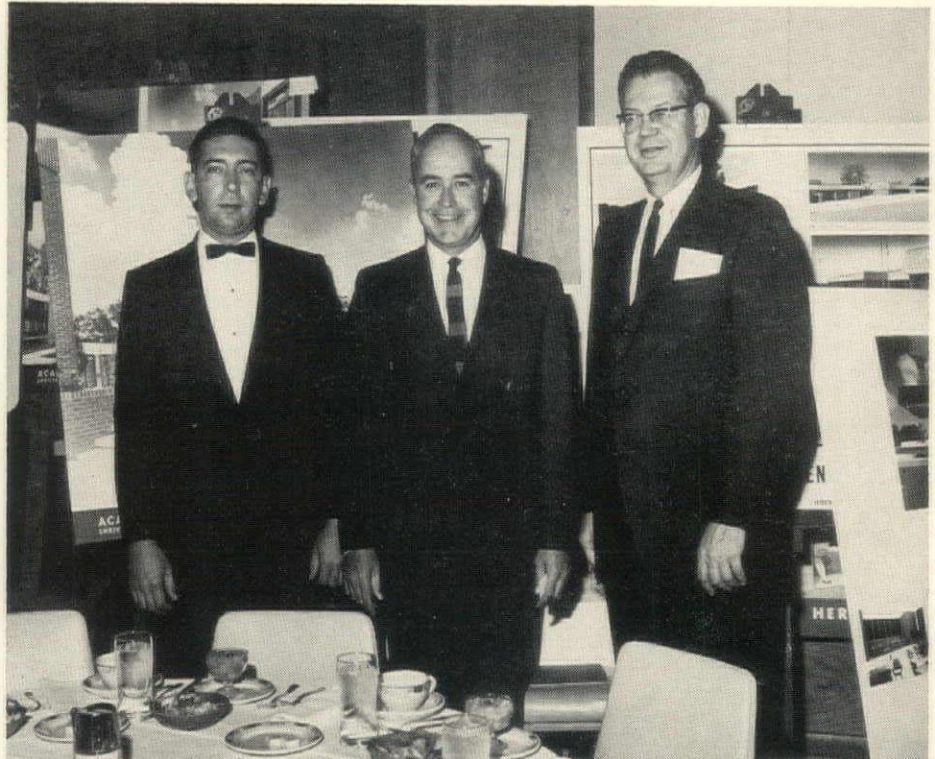
The Honor Awards competition is sponsored biennially by the Virginia Chapter. This year's top-ranking awards went to the Richmond firm of David Warren Hardwicke and Associates, and to Williams and Tazewell and Associates of Norfolk.

The Hardwicke firm won two of the top three awards, with the third going to Williams and Tazewell for its Norfolk Academy project. The Richmond projects cited were The First Federal Savings and Loan Association building on West Broad Street, which was converted from a gasoline station, and the Daniel Building, an office structure at Kent Road and Cutshaw Avenue.

Awards of Merit were given to the Iverness School of Potomac, Maryland, and the Lincolnia (Va.) Methodist Church, both designed by Vosbeck and Vosbeck and Associates of Alexandria; to a private residence on a two-and-a-half-acre lot off the Kanawha Canal in Richmond's West End, designed by Marcellus Wright and Partners, of Richmond; and to the Holy Family Catholic Church in Pearisburg, designed by Robert L. Mills, AIA, of Blacksburg.

Among the highlights of the three-day meeting, attended by some 180 members and guests, was a discussion of "Emerging Techniques of Architectural Practice," by C. Herbert Wheeler, Jr., AIA, associate professor of Architectural Engineering at Pennsylvania State University. Professor Wheeler recently served as director of a research project on this subject, and co-authored a report prepared under a grant from

(Please turn the page)



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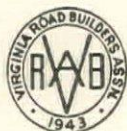
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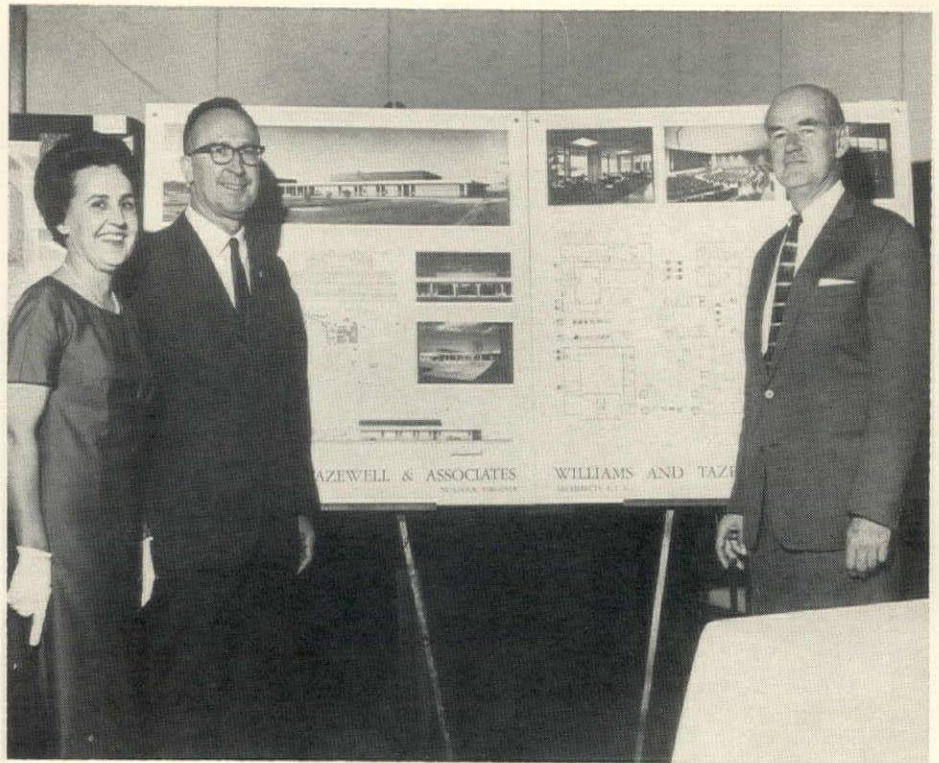
AIA NEWS

(Continued from page 83)

The American Institute of Architects.

Also featured on the program was David Sides, president of Datapro, a Charlotte, North Carolina computer firm. Sides, an architect who founded his firm recently to assist others in his field, discussed various computer services available especially for architects.

A New Jersey native and graduate of the University of Pennsylvania and The Massachusetts Institute of Technology, Professor Wheeler illustrated his talk with slides. He emphasized the efficient use of personnel and quality control, and pointed out new techniques used in average-size offices to improve the ability of rendering a modern architectural service.



Pictured above (left to right): Mrs. Sarah Williams; James Lee Williams, Jr. of Williams & Tazewell & Associates Architects; David N. Yerkes, F.A.I.A. (Mr. Williams was an award winner)

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FOR THE RECORD

• J. Eldred Hill, Jr., Director of The Division of Industrial Development for the Commonwealth of Virginia, announced in October the appointment of Harry Evans Woodward as the Division's Director of Public Relations.

Mr. Woodward, a native Virginian, was for 21 years a member of the editorial staff of Sales Management Magazine, New York City. Until recently, he was the publication's Senior Editor, in addition to planning and editing the magazine's annual Incentives and Business Gifts issue.

Woodward was born in Alleghany County, attended public and private schools in Richmond and The University of Virginia. He was active in the Business Paper Editors Association of New York. His articles have appeared in leading national publications and he is author of eleven self-help booklets with combined sales of over a million copies.

• A. H. McDowell, Jr., president of Virginia Electric and Power Company, recently was elected president of the Carolinas-Virginias Nuclear Power Associates at the annual meeting of the directors of CVNPA, held in Richmond.

The directors heard a report on operations of the nuclear reactor from Harold T. Babb, manager of the plant who told the group that in the past fiscal year the plant, located at Parr, S. C., produced 89,000,000 KWH of electricity. Plant availability since it went into operation in May, 1964, was about 81%.

It is the first nuclear electric generating plant in the southeast. While the electricity it produces is fed into

the transmission networks of the owning companies and utilized to help serve their customers, Parr is essentially an experimental plant and not intended to be a major producer of electricity. It is operated under a 5-year contract between the investor-owned utilities involved and the U. S. Atomic Energy Commission whereby the power companies bear the cost of building and operating and the A. E. C. pays certain of the research and development costs.

The Parr plant is operated by CVNPA which is owned by Carolina Power and Light Company, Duke Power Company, South Carolina Electric and Gas Company, and Virginia Electric and Power Company.

• Wayne C. Hart, President of STRESCON INDUSTRIES, has announced that STRESCON, the nation's largest manufacturer of precast and prestressed concrete products has divided its operations into two major divisions. A Mid-Atlantic Division and a Southern Division have been created to maintain efficiency and a continued leading position in the market place.

Products presently being manufactured by STRESCON include: FLEXICORE and CELDEX floor and roof systems; DYNA-FRAME, a new column and beam framing system; Wall Panels and other Architectural and Structural concrete products. SPAN-DECK, a new revolutionary floor and roof system will begin production in December of this year.

Mr. Hart announced that William W. Roemer will be Vice President and

General Manager of the Southern Division with responsibility for all sales activities in Maryland, Virginia, portions of Delaware and Pennsylvania, the Carolinas and the far South.

Mr. Hart also announced that Walter L. Hoggard will be Vice President and General Manager of the Mid-Atlantic Division. He, in turn, will be responsible for all sales in New Jersey, New York, portions of Delaware and Pennsylvania, and New England.

Also, Leo J. Jasien was named Operations Manager of Architectural Concrete for both the Southern and Mid-Atlantic Divisions. R. Lawson Fowble, Director of Engineering, will head up STRESCON's Research and Development on a company-wide basis. Also acting on a company-wide basis are Comptroller Willard W. Karner and Arthur M. Christ, Director of Estimating.

These corporate changes come at a time when STRESCON INDUSTRIES is developing its own products as well as enlarging its own physical plant. During the last year, both CELDEX and DYNA-FRAME were put on the market.

• A recent announcement from the Board of Directors of the Thompson-Arthur Paving Company names W. B. Tyler, Jr. as Treasurer and Assistant Secretary; E. S. Arthur, Jr., Secretary; W. L. Salmon, Jr., Vice President and Assistant Secretary and Charles H. Shaw, Jr., Vice President (Industrial Relations and Personnel) for the Greensboro, North Carolina firm.

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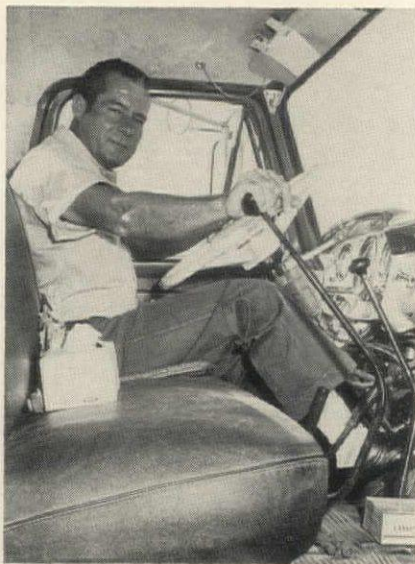


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ALLEN J. ROBBINS WINS B'NAI B'RITH AWARD



• After careful consideration of numerous successful handicapped workers, the Greensboro Mayor's Committee on Employment of the Handicapped has selected a forty-three year old World War II veteran for the B'nai B'rith award to the outstanding handicapped employee of 1966.

This World War II veteran—an infantry Sergeant and truck driver—lost his right leg in combat in France on July 8, 1944. An 88 MM shell hit his gun crew and shrapnel wounds required amputation of his right leg just below the hip. Left with a four inch stump and fitted with an artificial leg, this

veteran soon found regular employment with Thompson-Arthur Paving Company, Greensboro, N. C. He has been employed by this firm for the past seventeen years. He is still driving, but instead of a truck, he has for the past seven years been operating a tandem tractor-trailer—hauling payloads up to twenty-four tons—a job requiring a high degree of skill and coordination. Mr. Leo W. Foust, vice president and general manager, T & A Trucking Company, says this about him: "He sets a high standard in attendance, work performance, and safety."

This World War II veteran is Allen J. Robbins—known as "A. J.". He is the father of four children, and also a proud grandfather at the age of forty-three. "A. J." is employed by T & A Trucking Company.

• Trustees for Roanoke College in Salem recently announced plans for a \$5,100,000 capital gift campaign to finance the construction of two major building projects during the next three years.

Board president Stuart T. Saunders, chief executive of the Pennsylvania Railroad, outlined the expansion program to a group of 200 alumni and community leaders at the annual trustees dinner in Roanoke. The largest campaign for capital funds ever undertaken at the College, it will provide a Religion-Fine Arts Center and a Science Center.

The campaign is the second phase of

a development program which will eventually provide the College with more than \$12,000,000 in new buildings and endowment. The first phase, finished ahead of schedule in 1963, was the construction of a new library, additions to the dining hall, and two new dormitories at a total cost of more than \$2,000,000.

Named the Anniversary Challenge, Phase Two—The Arts and Sciences, the drive will highlight the 125th year of continuous operation since Roanoke College was founded in 1842. Saunders will serve as national chairman for the three-year program.

A high point of the meeting came when the trustee president revealed the total of \$1,527,000 in advance gifts and grants already pledged toward the \$5,100,000 target.

"Roanoke College will enter a whole new era upon the successful completion of this effort," Saunders said. "While we intend to preserve the traditional flavor of the liberal arts, we must have facilities to train the young men and women who come to us seeking intellectual equipment for the space age."

He called attention to the alumni of the College who have rendered "unusual service" to the Nation, "... men like Henry Fowler, Secretary of the Treasury; Hartsele D. Kinsey, who directed Union Carbide's construction of the Manhattan Project at Oak Ridge; David W. Brumbaugh, executive vice-president of TIME, Inc.; and Leonard G. Muse, leader in public higher education in Virginia."

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FITZHUGH PLAZA

(Continued from page 17)

Toilets have walls and floors of ceramic tile and floor-mounted metal partitions. Each floor is provided with a woman's lounge adjacent to the toilet area.

Varying wall and floor coverings are provided where tenants request more luxurious finishes.

Vertical circulation through the building is accomplished with one hydraulic elevator and two widely separated stair towers serving the three levels.

The principal design features of the Fitzhugh Plaza are an architectural expression of the building's basic structure and environmental components. The design composition is made up with reinforced concrete posts and beams, contrasting horizontal bands of precast concrete and solar bronze glass extending across the front and rear facades which return to the massive masonry end walls that offer a stable terminus for the building.

Heating and air conditioning requirements for perimeter spaces are satisfied with the use of incremental heating and cooling units which offer individual temperature control of each space by

its occupant. The interior zones are satisfied with a central air handling unit for each floor.

Electrical and telephone needs are satisfied with a network of under-floor ducts.



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(All Richmond firms unless otherwise noted)

Thorington Construction Co., general contractor, foundations, concrete, carpentry, paneling, wood flooring; E. G. Bowles, excavating, paving; Parrish & Marshall, Powhatan, masonry, stone work; Bethlehem Steel Corp., steel; Concrete Structures, Inc., precast concrete; Joe M. DeShazo Roofing Co., roof deck, roofing; W. H. Stovall & Co., Inc., windows; Richmond Glass Shop, Inc., glazing; Modern Decorating, Inc., painting; E. S. Chappell & Son, Inc., waterproofing, weatherstripping; W. K. Hawkins Engineering Co., insulation; John H. Hampshire, Inc., acoustical, resilient tile; J. A. Wilton, Jr., plaster; General Tile & Marble Co., Inc., ceramic tile, terrazzo; Liphart Steel Co., Inc., steel grating, handrails; H. Beckstoffer's Sons, millwork; J. S. Archer Co., steel doors & bucks; Central Electric Service Corp., lighting fixtures, electrical work; Hyman Mechanical Corp., plumbing fixtures, plumbing, air conditioning, heating, ventilating; Virginia Elevator Co., Inc., elevator; Pleasants Hardware, hardware; and W. H. Stovall & Co., Inc., metal toilet partitions.

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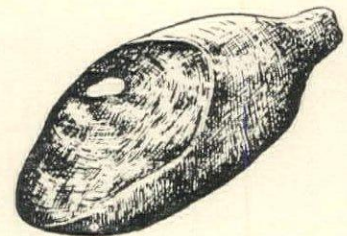
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NORTHERN STATE HOSPITAL

(Continued from page 35)

acoustical, and floors are largely terrazzo with some resilient and hard tile. The entire building is air conditioned using a split heating-cooling duct system with mixing boxes and satellite equipment rooms for exchangers and air handling equipment. An oil-fired boiler will provide hot water to each equipment room and to a supplementary convector system recessed into the exterior walls. Completion is expected early in 1967.

Subcontractors & Suppliers

Sherman Construction Corp., McLean, general contractor, masonry, carpentry, waterproofing; A. Z. Tyler & Co., Inc., Springfield, excavating. From Washington, D. C.: Sweetman & Hall, foundations, concrete; Chamberlain Co. of America, weatherstripping and Barber & Ross Co., steel. Richmond firms were: Republic Steel Corp., steel, steel roof deck, windows; Ruffin & Payne, Inc., millwork; Rich-Line Mfg. Co., Inc., cabinets & wardrobe units; W. A. Dagenhart & Son, plumbing fixtures, plumbing, air conditioning, heating, and ventilating; St. Charles Mfg. Co., steel cabinets & tops. Falls Church firms were: Va. Plate Glass Co., glazing; Dodd Brothers, Inc., plaster and Jesse P. Anderson, lighting & electrical work.

Others were: T. B. Dornin-Adams Co., Lynchburg, roofing; American Stone, Inc., Newington, stone work; Shield Painting Co., Alexandria, painting, plastic wall finish; McClary Tile, Inc., Annandale, structural tile, ceramic tile, & terrazzo; Bilton Insulation & Supply, Inc., Arlington, insulation; Southern Floors & Acoustics, Inc., Merrifield, acoustical, resilient tile; Fred S. Gichner Iron Works, Inc., Beltsville, Md., steel grating, handrails; Lockhart Mfg. Co., Charlotte, N. C., steel doors & bucks; Imperial Elevator Co., Roanoke, elevator; Hardware Contractors, Inc., Arlington, hardware; McKesson & Robbins, Roanoke, steel cabinets & tops.

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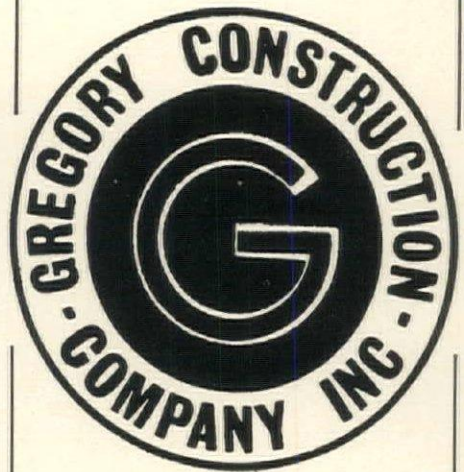
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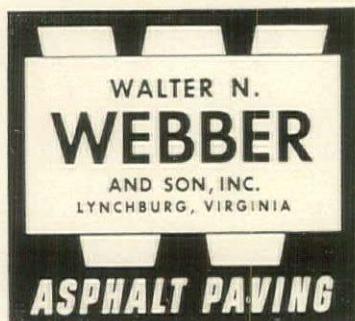
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(Continued from page 39)

Scuppers carry roof water into dry wells filled with white gravel. This same white gravel is used completely around the sanctuary, beneath the roof overhang.

Cost of the two buildings was \$290,000 or \$14.08 per square foot.

The fellowship hall, administration facilities and bell tower are to be built in the future. At that time, parking will be provided on the site for approximately 200 cars.

SUBCONTRACTORS AND SUPPLIERS

Radford firms were: Boone & Walsh, Inc., general contractor, foundations, carpentry, insulation; H. T. Bowling, excavating and T. L. Kirby, roofing. From Roanoke: A. P. Hubbard Wholesale Lumber Corp., structural wood; Billy R. Ayers & Son, Inc., plaster; Skyline Lumber Co., Inc., millwork; Nelson-Roanoke Corp., hardware.

Others were: Modern Concrete Products, Pearisburg, concrete; Wythe Masonry, Pulaski, masonry; Montague-Betts Co., Inc., Lynchburg, steel, windows, steel doors & bucks; Bluefield Glass & Tile Co., Bluefield, W. Va., glazing; Kirby Phillips, New River, painting; Standard Tile Co., Inc., Staunton, ceramic tile; W. Morton Northen & Co., Inc., Richmond, resilient tile; Muncy Electric Co., Inc., electrical work; Galax Plumbing & Heating, Galax, plumbing fixtures, plumbing, air conditioning, and heating; Hiwassee Furniture Co., Madisonville, Tenn., furniture and Hauser Studios, Winoah, Minn., Stained Glass. ▲

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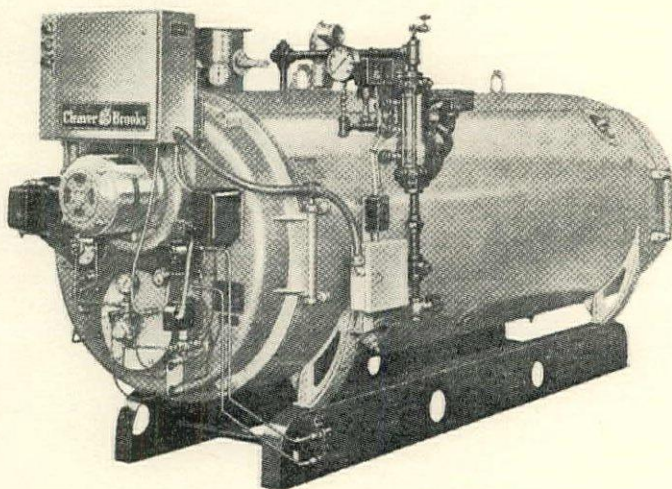
Markel Building (from page 47)
and the following local practices facilitate the economy of construction: (1) Concrete footings and piers on bedrock. (2) Concrete floors on bar joists. (3) Built-up roof on metal deck and rigid insulation. (4) Custom aluminum windows with gray tinted glass, matching anodized members. (5) Portland cement stucco underside of building and soffits. (6) Acoustical plank ceiling on exposed grid for future flexibility. (7) White split stone for elevator shaft and penthouse. (8) Permanent interior partitions on steel studs. (9) Aluminum coil spandrels.

One 700-foot continuous piece of .032-inch aluminum was used for cladding, rather than conventional sectional pieces, to achieve a desired free-form textured pattern while staying within the budget of the project. This method of eliminating panel joints and special fasteners saved the owner \$40,000. A stage, mounted on rollers pulled forward with block and chain fall, provided a traveling platform for the workmen. This method of applying the aluminum coil on the spandrels eliminated expensive and time consuming scaffolding. The absence of scaffolding, meanwhile, permitted work to continue on the ground. As the aluminum sheeting was unrolled from a portable spool

and positioned, workmen crimped it at top and bottom around 2" x 4" furring strips and secured it on the inside with screw nails (steel to aluminum contact was avoided to prevent electrolytic corrosion). The speed with which the building was enclosed also contributed to economy. The contractor managed to attain a rate of three feet per minute. The corrugations, dents and wrinkles serve a structural purpose as well as appearance. They enable the aluminum to accommodate the difference in expansion and contraction between itself and the structure. The stiffness gained from folds of the texturing exceeded the architect's expectations, so he abandoned the plans to undercoat the aluminum to dampen the sound of wind flexure and thermal oilcanning. The interior is insulated with fiber glass batts hung from a wire net just inside the sheeting. Plumbing and ductwork run behind the insulation. In addition, there were savings realized in the structural steel because of the outer wall's lightness being less than one pound per square foot. There are other possible uses of this technique, and Jamgochian plans to use this detail again with certain variations. He believes the beauty of this finish will be lasting because of the simple and natural behavior of the material ▲

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J. B. FISHER SCHOOL

(Continued from page 53)

pitched upward, and capped with a plastic skylight. Painted Solite masonry block was used for the walls, with glazed facing tile wainscot in corridors, cafeteria, kitchen and toilets. The roof deck, of precast insulating panels, serves also as an acoustical ceiling. Floors generally are monolithic terrazzo, except in the toilets and kitchen which have ceramic and quarry tile. Protection from solar glare is provided in classrooms and other areas by wide roof overhangs, and glare-reducing tinted glass is used in the large cafeteria windows.

Electric heat is used throughout the building, with individual thermostatic control for each classroom. With fluorescent lighting used throughout, an economy in wiring was realized by using a 480/277-volt electrical system.

The J. B. Watkins Elementary School is by MacIlroy and Parris, and is located on Coalfield Road just north of Route 60. It is similar in design and was also occupied in September, 1966.

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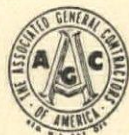
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GOLDEN SANDS MOTEL

(Continued from page 55)

and the doors are russet-colored on the south side of the building and coral on the north balconies. The stair towers are encased within golden-yellow solar screen brick, matching the face brick, which allows light into the stairways. Glass is installed inside for protection during the winter months.

Each suite has plaster walls painted in a monochromatic color scheme, alternating between floors, in yellow-gold and soft, earthy greens. The bridal suite is finished in gold tones, contrasting with wood paneling on one wall surface. Bathrooms throughout are completely tiled with ceramic tile matching the rooms in color and all entry areas have floor tile of mixed one-inch square ceramics. The kitchenettes, just inside two units on each floor, are rich brown-copper in color and are tiled to match the entry floor. These units are larger in size and each is connected to an adjacent suite by well-insulated

double doors. This allows flexibility for families who want adjoining rooms. All ceilings are painted white, to add light to the areas. The office is surrounded by glass, to allow full supervision of the swimming pool located on the sunny south side of the building. This feature serves the further purpose of allowing full control of incoming guests. The interior wall of the office is paneled in zebra wood with desks finished to match.

The original design called for the roof to completely overhang the motel, but cost factors indicated that a portion of the overhang should be eliminated. The swimming pool and the parking areas are surrounded by solar screen brick which matches the stair towers and affords certain privacy. The motel sign was designed by the architect to correlate with the motif of the main building. The sign slowly rotates and is flooded, at dusk, with various colored lights.

— Subcontractors & Suppliers —

From Virginia Beach: C. S. Yoder, general contractor, excavating, foundations, carpentry, waterproofing & weatherstripping; Welch Pile Driving Corp., piling; Sadler Ready Mix Corp., concrete; Albert Davis, roofing; Hasty Perry, painting; R. H. Baillio Co., fill; Matzen Tile Co., ceramic tile; Don's Electric Service, (with C. S. Yoder), electrical work; Princess Anne Plumbing & Electrical Suppliers, Inc., plumbing (Kohler Fixtures), air conditioning, heating and Master Pools, Inc., swimming pool.

And from Norfolk: Southern Block & Pipe Corp., masonry materials; Globe Iron Construction Co., Inc. & Standard Iron & Steel Co., Inc., steel; Ajax Co., Inc., stone work (Marble); R. F. Trant Distributing Corp., window walls, paneling, millwork; Ayers Insulating & Supply Co., insulation; Batchelder & Collins, Inc., lath; John Brothers, plaster; Atlantic Electrical Corp., lighting fixtures; W. W. Moore & Sons, elevator; Seaboard Paint & Supply Co., Inc., hardware; Sears Roebuck and Co., kitchen equipment; Doyle Brick Co., brick and Solar Block.

Others were: W. R. Bonsal Co., Inc., Lilesville, N. C., pre-cast concrete; Burgess-Snyder Building Products Co., Portsmouth, windows; and Binswanger Glass Co., Chesapeake, glazing.

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(Continued from page 57)

The building, facing Virginia Beach Boulevard, will be devoted to a six-car showroom, miscellaneous administrative offices and a complete "diagnostic center." This will be the first Ford Dealership on the East Coast to be so equipped. The customers will be able to watch the diagnostic procedure from a carpeted lounge and follow the results on fully explained dials. After the car has been repaired it will be tested again, in view of the customer, to prove that the proper corrections have been performed.

The service department will encompass 38 service stalls, a modern body shop, two infra-red paint ovens, a parts department and miscellaneous offices for the several department managers.

The showroom-office building shown in the model photo will be of concrete block construction. The projecting fins are designed to reduce the glare and sun-load on the building while still affording good visibility. The roof over the showroom will consist of laminated-wood beams and tongue-and-groove wood deck. In addition to general illumination, spotlights can be plugged in at any point along the beams into continuous channels.

The partitions in the office area will be of wood studs with dry wall finish. Some offices will be paneled. Lay-in type acoustical ceiling will be used throughout.

The service building will be constructed of steel rigid frames and metal wall and roof panels. Walls and roof will be insulated with fiberglass blanket insulation.

In addition to the conventional showroom display, cars will be featured outside as well. The ramp in front of the showroom will serve two purposes: it will allow cars to be moved in and out of the showroom at will and it will also serve as an "outdoor showroom." Customers will walk by the cars while approaching the showroom.

The landscaping, fountain, and colorful umbrellas at featured cars will provide festive surroundings reminiscent of the beach.

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(Continued from page 71)

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AIA HONOR AWARDS JURY ANNOUNCED

APPPOINTMENT of five prominent architects to serve as the jury for its 1967 Honor Awards was announced today by The American Institute of Architects. The awards are the nation's highest professional recognition for distinguished achievement by American architects.

Members of the jury are: James M. Hunter, FAIA, of Boulder, Colo., chairman; R. Max Brooks, FAIA, of Austin, Texas; Vladimir Ossipoff, FAIA, of Honolulu; Joseph N. Smith, AIA, of Atlanta, Ga., and Philip Will, Jr., FAIA, of Chicago. David N. Yerkes, FAIA, of Washington, D. C., chairman of the 1966 jury, will serve as adviser.

Now in its 19th year, the AIA Honor Awards Program was established in 1949 "to encourage excellence in architecture and to afford recognition of exceptional merit in recently completed buildings."

Because every building deemed worthy of premiation at national level deserves full public recognition, the sev-

eral categories of awards of previous years have been replaced this year with the single title "Honor Award."

Any licensed American architect is eligible to enter buildings of his design, completed since January 1, 1962, in this country or abroad with November the 25th the deadline for entries.

Judging will take place February 15-17 at Institute Headquarters in Washington, D. C., and awards will be announced during the AIA's 99th annual convention to be held May 14-18 in New York City. •

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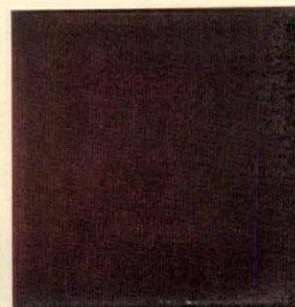
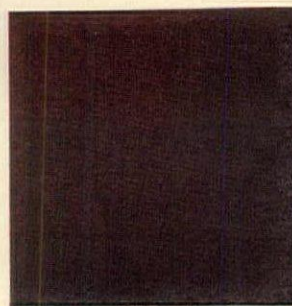
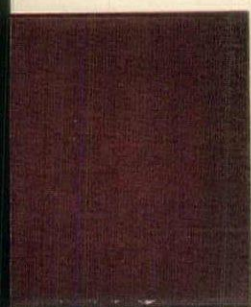
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Button, Button . . .

(Continued from page 5)

sounds: as if by magic! But who exactly is responsible for the planning, financing and execution of this grand "cure"?

First, who condemns buildings that are to be demolished? There is no central authority in the State's capital even for this beginning. The Housing Division of the Health Department can get after the owner if trash has gathered in his back yard or cracks run through his plaster—which would apply probably to half the houses in Richmond's Fan District and to a large proportion of old brick houses all over the state. The Building Inspection Department can come in if some decimal point of "structural deterioration" renders a building unsafe in the judgment of the Building Inspector, and he can nudge the owner or recommend demolition. But the Health Department and the Building Inspection Department go their separate ways, each half-blinded with the mass of obsolete specifications and codes.

Say, by hit or miss, buildings are condemned for demolition—who pays? Probably you. The Building Inspector applies to the Purchasing Department for the monies (from taxes). If the building is owned by a financially interested non-occupant, the expenses are charged against him, but that is not all the same as collecting from him. But suppose the building is a home occupied by an elderly couple who has lived there many years? It is true that trash gathers in their yard, the porch sags and the paint peels, but the roof doesn't leak, and inside it is cozy to those long habituated to it. The structural deterioration has not reached the decimal point that would justify condemning the old house for demolition. But this couple's home is in Fulton and must go.

Now, the property values in their neighborhood make their house assessable at, say, only \$3,000. What can they do with that toward a new home as a retreat from the place from which they are uprooted? Let us say that no one cares: they are paid the money, the Purchasing Agent allocates funds to have the old home destroyed and to clear away every vestige from a bright new vacant lot? Who will build on the property?—and for what purpose? The only answer is the Federal Government—or you.

The Federal Government will come in and obliterate old Fulton and build there something fine and brave as new

(Please turn the page)

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residences. Then the taxpayers of Richmond will have a fine new swelling of population on the relief-rolls, while the "county" citizens who support their suburban establishments by earnings in the city can draw their skirts more tightly about them, and the General Assembly will blandly observe the State's capital burdened further by unproductive "project" denizens, all the while maintaining obsolete laws that prevent the capital city from expanding physically. What can the Federal Government do about *that*. The repercussions, as illustrated in the one proposal of Fulton, are clearly beyond even the "cures" (as called) of Federal "aid."

The same complex of problems that applies to Fulton applies to every small area or every single building which everybody recognizes as a blight (except perhaps the absentee owner who benefits from renting it out). At the

same time, the existing codes and zonings and specifications make it possible for any investor to hire a non-architect builder to erect the cinder block igloos that are slums when put up—not tomorrow's slums, but today's new slums.

The Planning Commission can study and recommend to "Council," and Urban Renewal Developments can replace old slums with new projects in isolated areas, but who is in charge here? Neither the city government nor the state government is. The architect certainly isn't. He can do what he can in unrelated spots, but he cannot save the city from the apathy of Virginians.

There used to be a saying (in the days of slogans), "Talk is cheap but it takes money to ride on the railroad." All such sonorous phrases as "urban renewal" and "slum clearance" amount to no more than talk that costs nothing—or, in today's illusions about "cures," to the *relatively* small costs of operating

commissions to recommend and commissions to make surveys and commissions, really, to sustain the illusion that something is being done.

Between "Council," Health Department and Building Inspections, between waiting for the government to do it and waiting for the State Capital to emulate the national capital as a city, the architect is as helpless as the uninvolved spectator. Although he might long to be involved in working constructively with a coordinated plan under coordinated authority, he ends up merely by being more frustrated than those who are uninvolved by choice.

With a few rude tools, a little more than 100 men built the first permanent English settlement in the New World. They had a lot of trouble over establishing who was in charge at Jamestown, but they made certain that *somebody* was. Their little colony would not have been very permanent if they had been trapped in the frustrations of working through "Button, button, who's got the button?" before they felled a tree or built a palisade for their survival. Since those far-away days of men and women acting for themselves in creating their own environments, we seem to have reached the question of *is there a button at all?*

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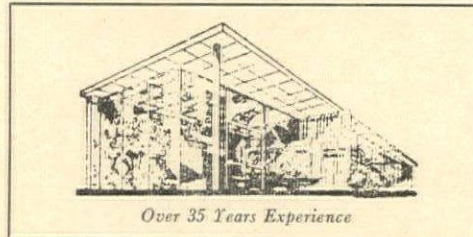
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Gayle S. Mann, Jr. & Co., Inc.	101
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Manson & Utley, Inc.	88
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McClary Tile, Inc.	107
McIlhany Equipment Co., Inc.	56
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Middleburg Real Estate	108
Mid-State Materials Co., Inc.	111
Mid-State Tile Co.	104
J. A. Morris	84
Mortgage Investment Corp.	81
Mount Airy Glass Co., Inc.	98
Mount Vernon Motor Lodge	108
Mountcastle Lumber Co., Inc.	107

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Nationwide Homes, Inc.	100
W. Wallace Neale Co.	94
Nelson & Smith Co., Inc.	101
New River Electrical Corp.	98
Nichols Floor Co.	48

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Oliva & Lazzuri, Inc.	84
R. E. Orcutt Co.	80

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Perrow Chemical Co.	102
Petersburg-Hopewell Gas Co.	80
Petroleum Marketers, Inc.	28
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Pierce Heating & Air Conditioning Co.	106
Pittsburgh Plate Glass Co.	4
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Project Management Associates	88

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Rappahannock Electric Co.	109
Raymond Concrete Pile Div., Raymond International, Inc.	68
David A. Reed & Sons, Inc.	108
Reid & Hope	94
Richardson-Wayland Electrical Corp.	43
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Richmond Machinery & Equipment Co. Inc.	8
Roanoke Iron & Bridge Works, Inc.	76
Raymond C. Robinson	90
Rose Lumber Co.	109
R. Stuart Royer & Assoc.	90
Eugene Rupard	43
Thomas Rutherford Bonding & Ins.	28

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Sanford Brick & Tile Co.	2
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Southwestern Va. Gas Company.....	28
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Steel Service, Inc.....	78
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Stonnell-Satterwhite, Inc.....	52
Street & Branch.....	110
The Structural Slate Co.....	28

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Superior Concrete, Inc.....	54
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Talley Neon & Advertising Co.....	70
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A. Z. Tyler & Co., Inc.....	109

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United States Steel.....	31-34

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Varney Electric Co., Inc.....	99
Va. Elevator Co., Inc.....	79
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Va. Roofing Corp.....	88
Va. Sheet Metal & Roofing Co., Inc.....	109
Va. Sprinkler Co., Inc.....	99

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Wagoner Construction Co., Inc.....	18
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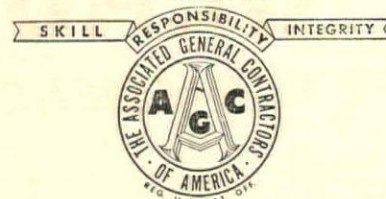
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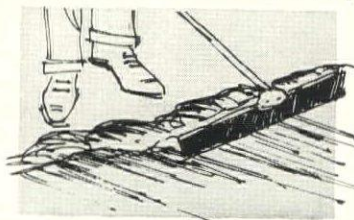


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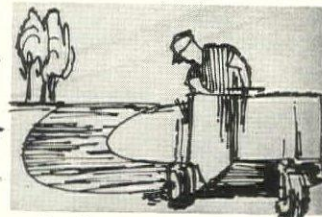
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