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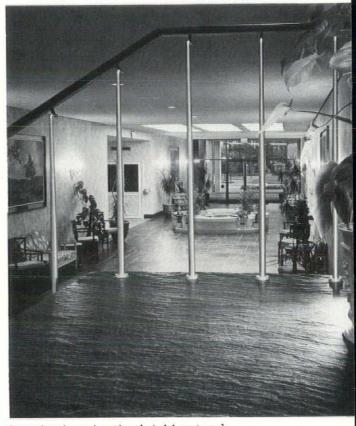




(Above and right) Woody's Funeral Home, Parham Chapel, Richmond, Va. Architect: Ballou and Justice · Photos: Garber-Huffman



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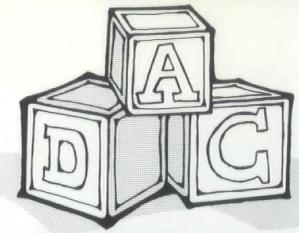
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Published Monthly at the State Capital By Virginia Publishers Wing, Inc.

EDITORIAL OFFICES: 301 EAST FRANKLIN STREET

Phones: 644-2722 or 644-6717

Vol. 100 - No. 8

August 1978

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Subscriptions 1 Year \$5-2 Years \$8.50 3 Years \$12

Per Copy 75¢

Address All Mail to: VIRGINIA RECORD O. Drawer 2-Y, Richmond, Va. 23205

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ON OUR COVER is the Management Information Services Building for Reynolds Metals Company in Henrico County. The project, designed by Baskervill & Son of Richmond, is presented on page 28 of this issue. (Photograph by Huffman Studio)

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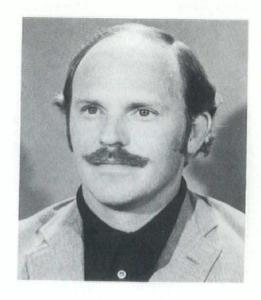
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GUEST EDITORIAL



By Frederick E. Baukhages, IV, AIA

o You Want To Be An Architect

THE profession of architecture involves and incorporates many different kinds activities. Boiled down to its simplest, architecture is the design of buildings, oups of buildings, and often the spaces between buildings. It is a powerful luence over people and the ways in which they work and play.

Architecture is a profession, a business, a science and an art, all of these at one ne. It is a profession whose main activity is designing and improving the vironment in which we all spend most of our time — the built environment. Even bugh it is a popular conception, architecture is not just "drawing up blueprints." is not a career for just anybody. It has been said that nobody "is born to be an chitect." To be an architect takes a crazy combination, some artistic ability, ent, and almost equal parts of science, logic and engineering ability. It takes agination, motivation, and a special blend of talents and skills including the ility to organize one's ideas and communicate them clearly to other people. It o takes time — a gread deal of time.

How does one become an architect? The best way involves three requirements; ucation, experience and examination. You get the first by satisfactorily impleting the curriculum in an accredited school of architecture and being arded a professional degree, either Bachelor or Master of Architecture, besequent to or concurrently with the educational process you must gain valuable of sessional experience for a certain period of time, usually one to three years, der the supervision of a registered architect. Then you are eligible to take the chitectural registration exam in your state. Accredited schools of architecture ovide one of two different programs leading to degrees. One is the traditional e-year program leading to a Bachelor of Architecture. In these schools you enter ectly into the architecture program and work your way through a curriculum ich is structured yet has a degree of flexibility allowing elective courses. The five-

The other basic format is a six-year program leading to a Master of chitecture degree. This course is popular with many students due to its greater cibility and wider range of options. Usually the first two years are devoted to leral university requirements and introductory architecture courses thus giving student an opportunity to begin discovering what architecture is about. The ond two years provide a fundamental base in architecture and, frequently, an osure to related environmental design fields. Again, there is the opportunity to to some other field. At the end of this period, most schools award a nonfessional degree in art, science or environmental design. The remaining two duate years usually allow a wide variety of in-depth options oriented toward fessional activity, research or teaching and end with the award of a professional ree, Master of Architecture.

(Please turn the page)

At this point you will find out why is also known graduation commencement. No matter that you have worked hard for five or six years, you have only just begun. There is still the period of internship - three years in Virginia. This period is important not only because it is required for taking the registration examination, but also because it provides the opportunity to gain real-world experience, develop professional judgement and sense of responsibility necessary to be a professional, and it establishes the important habit of continued learning which must be a life-long process and does not stop at the end of the formal education period.

Now you are eligible for and face the third requirement, examination. The Professional Registration Exam is not a test of academic knowledge. It is assumed that you have all of that if you have an accredited architectural degree. Instead, the Professional Exam, four sessions given over a two day period, is designed to test your ability to put that knowledge to work and actually make decisions, and is, therefore, the key registration. An architect has to registered or licensed, because his wo directly affects the health, safety ar welfare of the public. State registration is a way of making sure that people wh want to practice architecture a qualified, by education and experiend to perform architectural service competently. It should be pointed o here that graduation from accredited school of architecture is n an absolute requirement. There is additional examination which preced Professional Exam for the aspirants from graduates of no accredited architectural programs those with no formal education beyon high school. This Equivalency Exam a test of technical and academ knowledge in the field of architectu and must be passed to gain eligibility take the Professional Exam.

So there you are: diploma on o wall, registration certificate on t other, and a large collection knowledge, ideas and skills ready to put to work. You have already fou out about the hard work and lo hours, experienced some of t frustrations, and most importar tasted some of the satisfaction of bei an architect.

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THOMAS G. GEORGELAS, AIA, Born February 7, 1948 in San Francisco, California. He received his B.S. in Psychology and his Master's in Architecture from the University of Utah. He is registered in Virginia and has been a Member in the Northern Virginia Chapter since November 19, 1976. George has his own firm: Thomas Georgelas, Architect, in McLean.

CARLOS S. SANTOS, AIA, born May 31, 935 in Sta. Cruz, Laguna, Philippines. He received his B.S. in Architecture from Maplia Institute of Technology in Manila, lippines. He is registered in Virginia and The Republic of the Philippines. Carlos is iployed by Engineering-Science Company n McLean. He has been a Member of the Northern Virginia Chapter since April 14, 1977





THOMAS D. CULBERTSON, Jr., AIA, born September 5, 1938 in Saint Ignatius, Montana, received his Bachelor of Science from Virginia Polytechnic Institute. He is registered in the District of Columbia, Maryland and Virginia. He has his own office: Thomas Culbertson, Architect in Spotsylvania. Tom has been a Member of the Northern Virginia Chapter since September 19, 1977.

THONY C. ROUNDS, AIA, born August 9, 1943 in Ashville, North Carolina. He eived his B.A. Degree from Ohio State and his M of A from the University of nesota. He is an architect with the firm of Salditt, Lipp & Helbing in Vienna, /irginia. Anthony has been a member of the Northern Virginia Chapter since January 10, 1978.



(Please turn the page)

(Continued)

Associate Members

THOMAS R. ZAJDEL, born October 24, 1943 in Westmoreland County, Pennsylvania, attended school at Greensburg Technical and West Pennsylvania Technical. Tom joined the Northern Virginia Chapter as an Associate May 5, 1978. He is Project Director with the firm of Dewberry, Nealon and Davis, Architects, Engineers and Surveyors of Fairfax.





JAMES REID DOWLING, born July 30, 192 in Somerset, Pennsylvania. He received the Bachelor of Science Degree from the College of Applied Sciences in Chicago, Illinois. He is director of the AIA Codes and Regulations Center at the American Institute of Architects in Washington, D. Jim has been an Associate Member of the Northern Virginia Chapter since March 1978.

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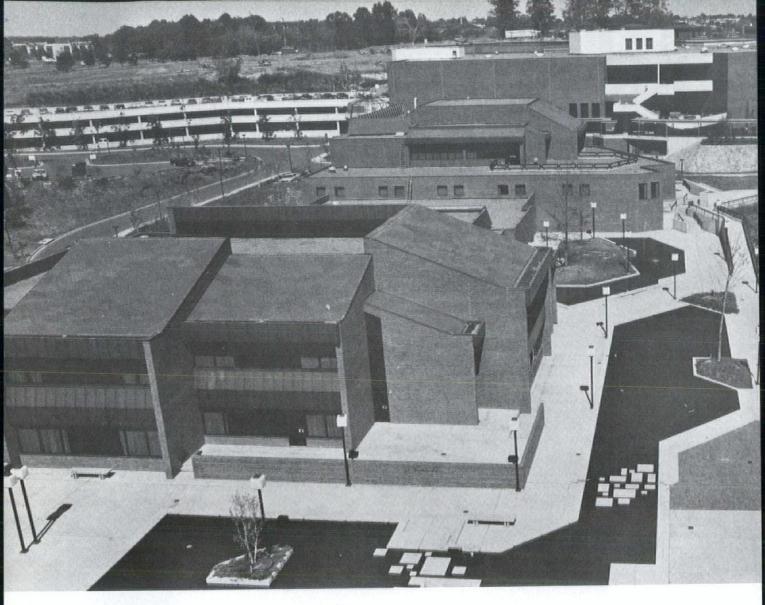
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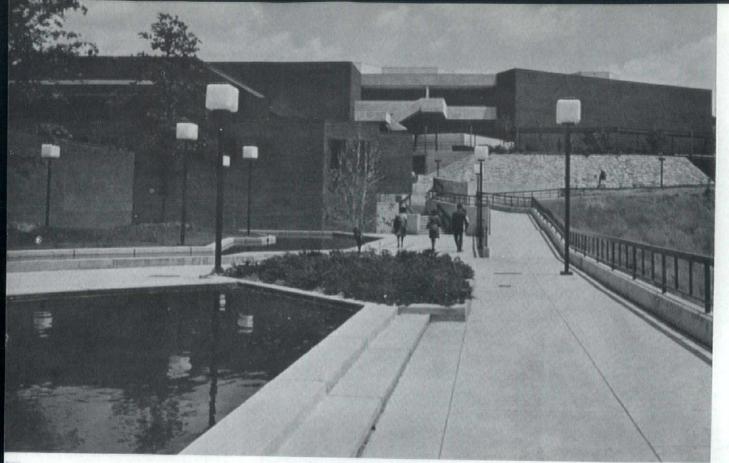
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THE MODEL Secondary School for the Deaf (MSSD), located in ashington, DC, is not a typical school, for that matter, is it a typical school the deaf. It is a MODEL school, eated by federal action. The United ates Government, under Public Law 1-694, appropriated funds:

For the purpose of providing day and residential facilities for secondary education for persons who are deaf in order to prepare them for college

and other advanced study, and to provide an exemplary secondary school program to stimulate the development of similarly excellent programs throughout the Nation...

In somewhat less official terms, the purpose of MSSD is to explore and demonstrate the educational process as related to secondary (high school) students whose hearing is impaired. MSSD was established to meet two very basic needs: to improve educational

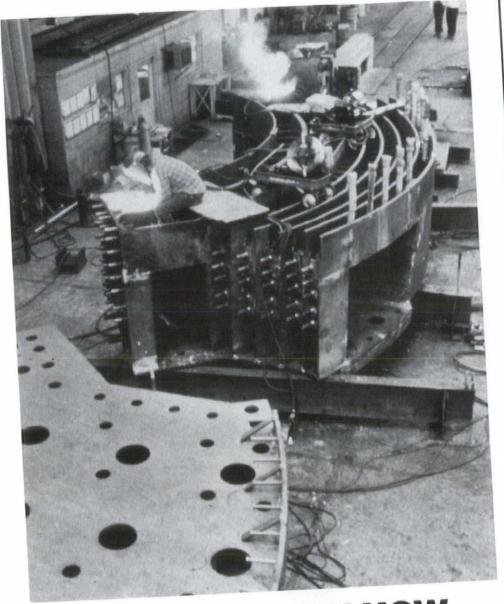
opportunities for handicapped students by providing a secondary teachinglearning environment comparable to that available to hearing high-schoolage students and to demonstrate the feasibility of such a program nationally. In short, MSSD is far more than a school for the deaf; it is a national resource for special education.

The design of MSSD is a response to the requirements of the program. One



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of MSSD's major objectives as a model school is to provide the best possible educational resources. The physical plant is an educational resource in tself, offering a hierarchy of space for liverse activities and flexibility within hose spaces. It is MSSD's intention to prepare each student to follow whatever career direction he or she cares to take. The design includes spaces for a variety of curricular needs (liberal arts, pusiness, vocational, technical, etc.), providing deaf students with opporunities to explore a wide range of inerests.

A parallel objective of the school is to hare the educational methods nvestigated and developed at MSSD vith other educators across the country. consequently, a steady influx of visitors vill be observing and participating in ASSD's programs. An important egment of the school population will be professionals and pararofessionals who are not immediately onnected with MSSD, but who will be pending weeks or months there as articipating guests. These visitors rovide an additional resource to the ASSD student in that a variety of xperiences and ideas from other stitutions are introduced. The forum f MSSD therefore makes possible dvances in educational opportunities or all deaf students.

The student body at MSSD is rincipally comprised of teen-agers from Washington, DC and five surrounding states. When the school is fully occupied, there will be approximately 600 students, of whom 450 will live on campus. The staff includes administrators, teachers, and persons responsible for the preparation and dissemination of information regarding the MSSD program.

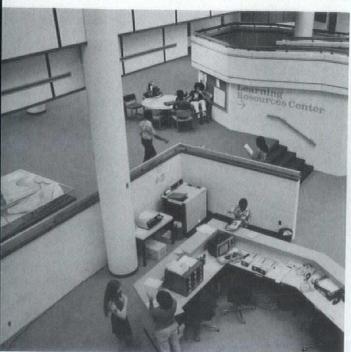
HTB, Inc. was commissioned to design a school that satisfies the mandated educational requirements while recognizing that the school should be a student's place rather than a place upon which students are imposed. During the design process, HTB remembered that it is people who shape an environment. A building can contribute in many ways to the success of educational programs, and can help to shape the activities that take place within it, but the use of that building is ultimately determined by those who share it. In response to these principles, MSSD was designed for teen-aged students with hearing impairment.

The design of MSSD is intended to facilitate the use of communications skills to the greatest extent possible. Because students are encouraged to expand their learning experiences beyond the classroom, in informal discussions with teachers, with staff, with visitors, and with each other, a primary goal of the design was to encourage social interaction in whatever context possible. Through this



design, MSSD hopes to determine what factors do promote communications skills among deaf teenagers. Extensive research and design studies were applied to develop spatial arrangements, acoustics, lighting, graphics, color coordination, and furnishings. All of these are inter-relatedly planned to create an environment which encourages social interaction without sacrificing academic discipline. At the same time, however, HTB recognized that students need to pursue independent learning experiences and to grow as individuals. Recognition of the need for individualized instruction was therefore a major impetus behind the "heirarchy of spaces" design philosophy.

That the environment may be adapted to changing educational needs (Continued on page 47)





ROANOKE MEMORIAL HOSPITALS PARKING GARAGE

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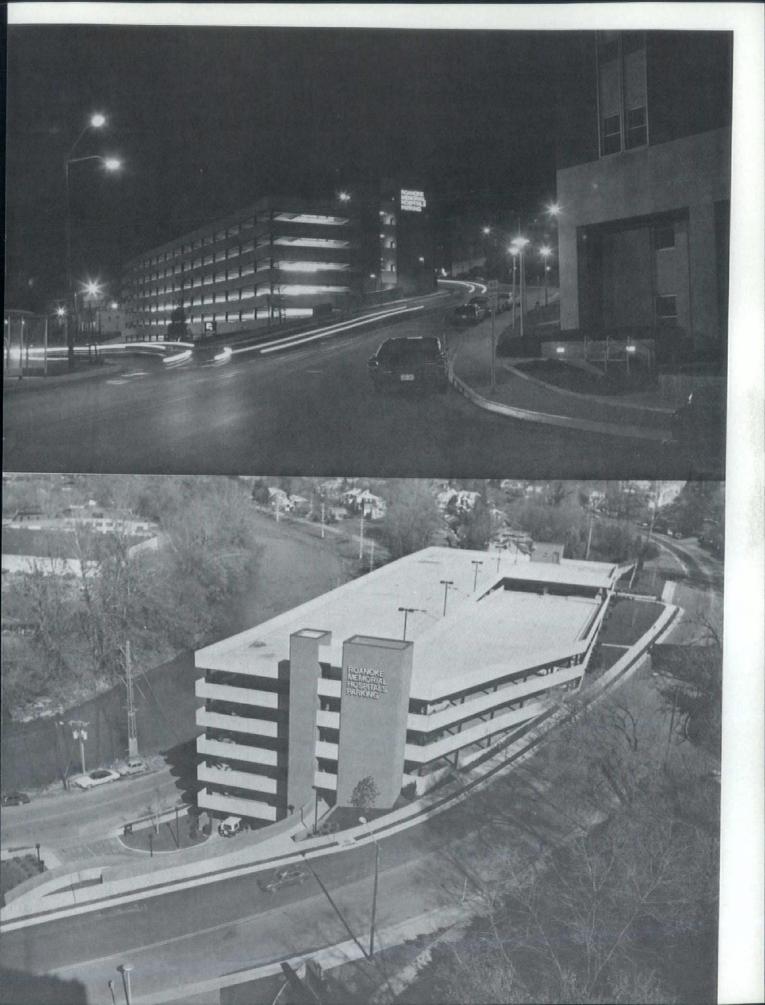
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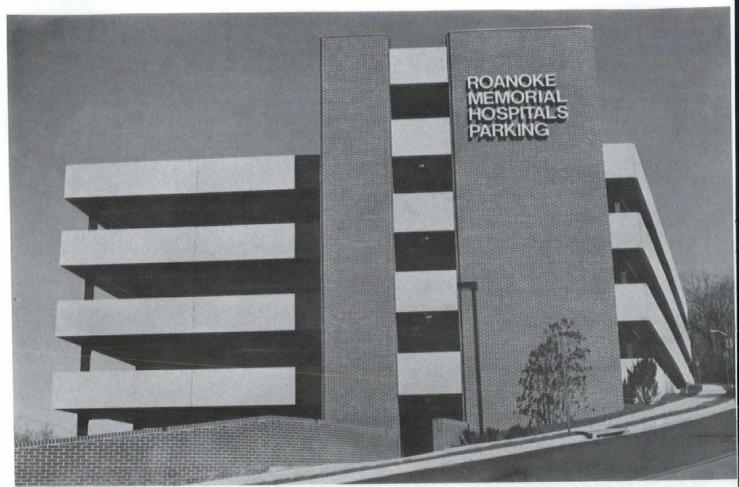
DEYERLE STUDIOS Photography

Providing adequate parking on an extremely limited site was the problem confronted by Sherertz, Franklin and Shaffner, Architects-Engineers, in the design of Roanoke Memorial's Parking Garage. The allotted site for this construction was located between two streets on a 30 degree hillside slope.

To solve this unique site dilemma, Sherertz, Franklin and







embedded in concrete caissons and anchored horizontally with prestressed ties. Thus, the utilization of the tieback wall made it feasible to construct a seven-story parking garage with a capacity of 660 cars.

The parking garage visually resembles a modified rectangle. It is composed of structural steel and concrete slabs with precast exposed aggregate concrete spandrel panels. Visitors, upon entering the garage, at the upper level, descend to different parking levels by a series of ramps.

A color coded graphics system is located on each level to help the user identify his location at all times. The same color graphics system has been adopted in the garage elevator to further assure easy identification of car locations. Utilizing the structure to its maximum efficiency, Sherertz, Franklin and Shaffner has provided two medical storage areas under the lowest parking level.

From the parking levels, the elevator is available to transport visitors directly to a pedestrian underpass. This underpass provides a safe and weather-free route directly to and from the hospital lobby. The underpass and the parking garage are constantly monitored by a closed-circuit TV surveillance system. This system, engineered by Sowers, Rodes and Whitescarver, assures adequate safety for the public and the hospital staff.

In terms of aesthetics and function, Roanoke Memorial Hospitals Parking Structure is considered a success in that it is adaptive to its sight and utilitarian in its environment.

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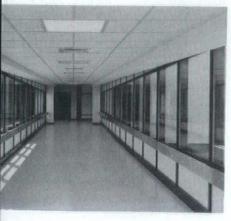
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IN THE summer of 1976 officials of the Medical College of Virginia began serious discussions about the possibility of constructing a bridge between the Nelson Clinic Center and Sanger Hall Medical Education Building. Two other MCV Buildings, Hunton Hall and Randolph-Minor Hall were being removed to make way for the new teaching hospital. Their removal would interrupt the tunnel connection between Nelson Clinic and the existing hospitals thereby cutting an important patient access between these facilities during the three year construction of the new hospital. The architect was instructed to first study the feasibility of building such a bridge and secondly determine the recommended location and define what modifications would be necessary to existing interior spaces to accommodate this work. The architect

and MCV officials worked closely together to determine what location should be used and that the bridge should initially link the second floors of both buildings and have the capability of being extended upward to link the third and fourth floors at some future time.

Once the basic design work was completed a number of reviews were held with state and city authorities to ascertain the numerous code and legal requirements that had to be satisfied. Because of its somewhat unusual location special agreements had to be made between the City of Richmond and MCV in order that the bridge could legally be built over what is actually city property. Structural analysis revealed that the structural frame of the existing buildings would not accept the added

(Continued on page 48)

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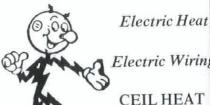
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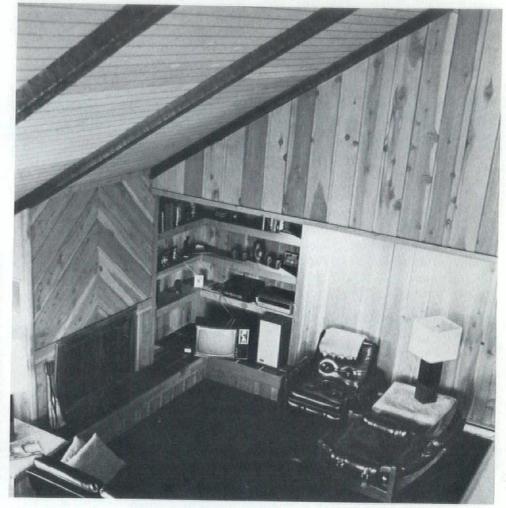
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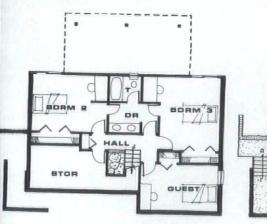
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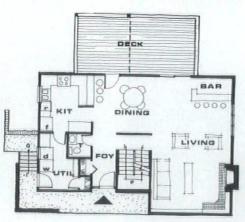
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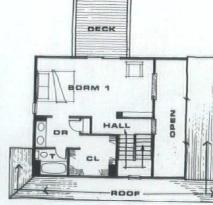
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BODLEY RESIDENCE

ROANOKI

23

BYRON R. DICKSON, JR. - ARCHITECT/ENGINEER

Interior Design & Photography BY THE ARCHITECT

TOWNSIDE CONSTRUCTION COMPANY, General Contractor

irginia Storv Alicu

AUGUST 1978

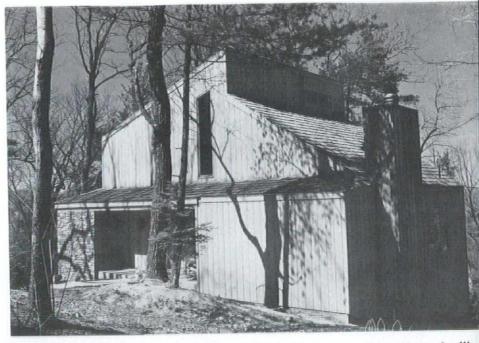
THE program goal was brief and straightforward: Design a custom contemporary home within the cost constraints familiar to subdivision track houses. Except for some minor compromises, all cost and performance objectives were met.

The site is a steeply wooded lot located on a mountain side in southwest Roanoke County. An overwhelming view dominates the vista in a southeast direction counterclockwise to the northwest, taking in all of Roanoke and surrounding communities. Elevated high above the valley, the site is some thousand feet above the urban floor below. Aside from careful thinning of vegetation required for placement of dwelling, mechanical distribution field and equipment access, the site was to remain "undisturbed."

The total program area was limited to just under 2,600 square feet of which 2,100 is enclosed and 500 is in open decks.

Steve and Paula Bodley are originally from Montana. After graduation from college, they settled in the Roanoke Valley. Steve is promotions and

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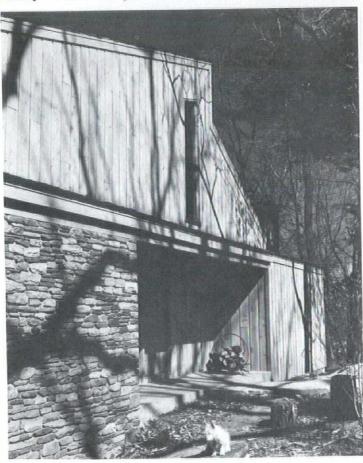
advertising manager for a local heavy equipment distributor.

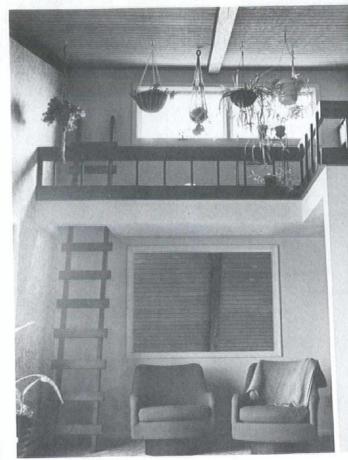
Their western upbringing together with a love of outdoor sports prompted a desire for an informal life style. The entire family, which includes two very active daughters, participates in a variety of athletic events keeping them constantly on the move. The need for a

low maintenance, easy upkeep dwelling was an important consideration.

The site has a forty percent gradien falling from front to back. A three leve solution was derived which accommodated the fall-off site condition and worked well in subdividing the program.

The lower level is the domaine of the





two Bodley daughters. Their bedrooms are at each outside corner providing a walk-out sliding door to an on-grade patio. In addition to privacy, a bathing and dressing area is shared by each. A study area with built-in desk and bookshelves is provided in the girls' rooms. Also located on the lower level is a large storage room and a guest bedroom.

The middle level, in addition to being the point of entry, is the informal living area. The Bodley's style of entertainment required no formal living room. Except for the utility room and powder room, the entire floor is open. The entry loyer, stairwell, family room, dining area and kitchen, all interrelate as a single contiguous space. A large family leck opens off the dining area.

The upper level is devoted entirely to the master bedroom suite. In addition to the sleeping area, a dressing room, path and walk-in closet is provided. Over one end of the sleeping area, where the ceiling peaks, a reading loft overlooks the suite.

The substructure is concrete and the superstructure is wood frame. The exterior skin is dominantly western reducedar with stone accent at the porch enclosure. The roof material is cedar hake. Windows are wood casement.

Interior materials on wall surfaces are painted with wall covering and cedar plank used for accent. Floor surfaces are primarily carpet with vinyl tile in elected areas. Conventional ceilings are natural thin coat plaster while aulted surfaces utilize fir plywood. A prefabricated fireplace on a raised earth occupies a corner of the family com.

The Bodleys are pleased with their ite selection and program accomplishments. Their privacy, which has been nhanced by a very carefully controlled pproach to vegetation and tree remov-I, is such that no interior window creening has been required.

Townside Construction Company of alem was general contractor and andled foundations, concrete work, einforcing, carpentry, waterproofing, pofing, roof insulation, wall insulation and foundation insulation. The owner andled sodding, seeding, etc., andscaping, landscaping work and ainting.

Subcontractors & Suppliers

From Roanoke were: Paul Turner Construction, excavating; Concrete Ready Mix, concrete supplier; Home Lumber Corp., millwork; Windshield Glass Distributors, glass & glazing contractor; Corners Frame & Decorating Shop, wall covering; Hajoca Corp., plumbing fixture supplier; Lester's Electrical Service, heating/electrical contractor; Lighting Galleries, Inc., lighting fixtures supplier; and Williams Supply, Inc., electrical equipment supplier.

From Salem were: Larry J. Francisco Stone Co., stonework contractor/supplier; Phillips Ornamental Iron, Inc., handrails; McClung Lumber (Peachtree), wood doors; Clifton Floor & Tile Service, Inc., carpet & special flooring, and S. B. Radford & Sons, plumbing contractor.

Others were: Leo Scott Cabinets, Ferrum, cabinets; Andersen Windowalls, windows; Weiser, window wall; Heatilator, fireplace; and Cultured Marble, marble tops.

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EVANS RESIDENCE

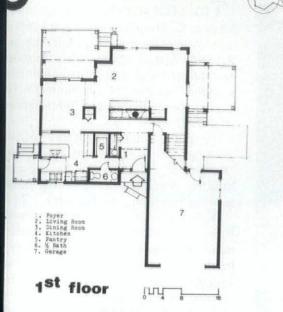
S. MICHAEL EVANS ARCHITECT/OWNER General Contract & Photography STANDING in the midst of soybean fields in the small community of Poquoson, the Evans Residence appears to be much larger than its actual square footage. In fact, the deceptive size of the house was one of the major determinant in its design. The architect/owner, building his first home and under tight budge constraints has managed to extend the outward appearance and internal spaciousness far beyond the 1750 square feet contained within.

The three-bedroom home sits at the winter sun angle to the property lines on 1, acres of formerly cultivated fields. The house is oriented towards the adjacent pin

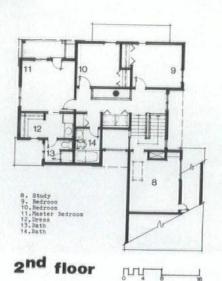
woods and rear yard trees.

The first floor of the cypress-clad wood frame structure contains a two-stor entry foyer, living room, dining room and kitchen. All of the spaces are modest is actual dimension but openings, windows and other special devices are utilized to

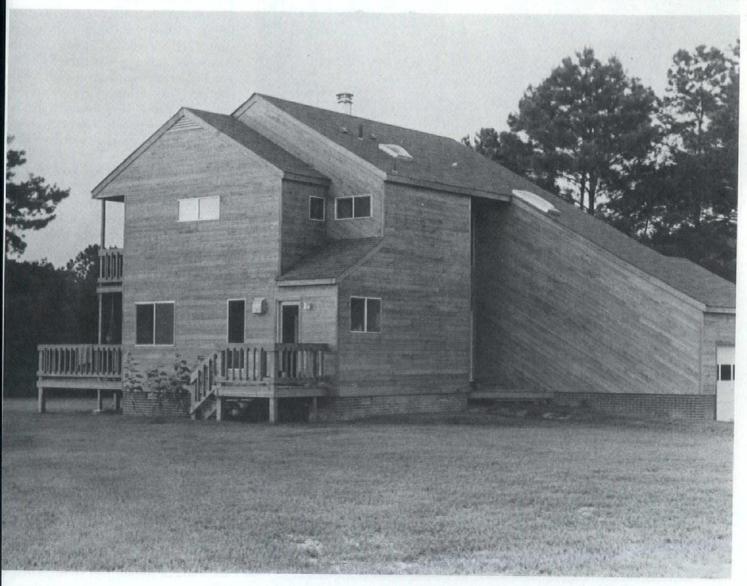
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EVANS RESIDENCE

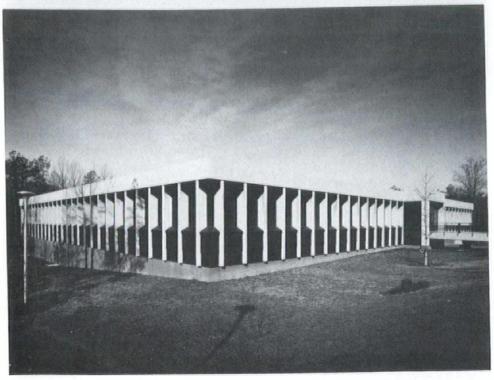


EVANS RESIDENCE









THE MANAGEMENT Information Services Building is situated just west of the existing General Office Building on Reynolds Metals Company's corporate headquarters site. The entire building is a highly specialized environment to house the management information services division.

The main building contains 65,245 gross sq. ft. of space on two levels (946,048 cu. ft.) and the Equipment Building contains 2,268 gross sq. ft. of space on one level (25,696 cu. ft.).

The structure is a reinforced concrete frame with flat slabs. The exterior materials consist of precast concrete, brick, and aluminum. The precast concrete is used in the fascia and in vertical ribs spaced 6'-0" o.c. which support the aluminum work and windows. The exposed aggregate used in the precast concrete is river bed gravel of warm tone tans and browns. The aluminum windows are anodized bronze with 1" insulating bronze glass with operable vertical louvers on the inside to provide sun control. The remainder of the aluminum work consists of bronze break formed insulated panels and bronze extruded vertical ribbon panels. The brickwork is running bond and the color is a dark brown.

The exterior design was such that the vertical ribs accentuate the height of the long low building. The colors and materials were chosen to blend with the natural setting against the wooded site and provide a contrast to the other corporate buildings. The building is entered across a small bridge from the parking lot.

Interior spaces were designed around a six foot by six foot module to provide a degree of flexibility through the use of movable partitions. Each module contains a two foot by four foot light fixture all of which are used for return air and some used for supply air.

The interior finishes are generally carpet on floors, movable partitions are aluminum framed with glass and viny clad gypsum panels, and ceilings are acoustical lay-in panels. The toilets are ceramic tile.

The equipment building houses the Uninterruptible Power System (for the computers), emergency generators, and the cooling tower. The construction is



NANAGEMENT INFORMATION SERVICES BUILDING REYNOLDS METALS COMPANY

ENRICO COUNTY

ASKERVILL AND SON — ARCHITECT/ENGINEER

ARRIS, NORMAN, GILES & WALKER, Consulting Engineer, Structural

indscape Design, Interior Design & Site Work BY THE ARCHITECT ASIC CONSTRUCTION COMPANY, General Contractor

JFFMAN STUDIO, Photography

ad bearing block walls faced with onze aluminum siding and louvers th precast concrete fascias.

A four-pipe induction system ovides heating or cooling, as quired, for the perimeter areas of the st floor. The interior areas of the first or and approximately one-half the bund floor area are air conditioned d heated by a high pressure double

duct air system, utilizing light fixtures for supplying and returning air. Temperature and humidity in the computer room are controlled by a number of air conditioning units located in the space, which transfer the heat generated by the computers to the central chilled water system. The computers are the primary source of heat for the building.

The building's central refrigeration plant consists of two 500 ton centrifugal chillers and a 123 ton reciprocating chiller, which provide chilled water to the various air conditioning systems. The reciprocating chiller serves as a heat reclaim machine, rejecting the heat it removes from the chilled water to a closed hot water heating system, thereby satisfying the building's total

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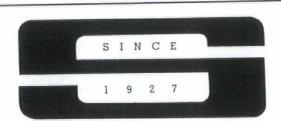
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heating requirement. A standby 540 KW electric hot water heater is capable of providing the building heat requirements should the reciprocating chiller be out of service or the computer room not be in operation.

A sprinkler protection system is provided for almost the entire building. Halon 1301 Systems are provided for the underfloor area of the computer room, the tape vault, data preparation area, and the uninterruptible power service room in the equipment building.

The building is provided with a Robertshaw DMS 2400 centralized automation system. This system, ogether with a pneumatic control ystem, provides complete building invironmental and fire/security entralized monitoring and control.

Basic Construction Company of lewport News was general contractor.

Subcontractors & Suppliers (Richmond firms unless noted)

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Designed by Baskervill & Son, the Reynolds Metals Management Information Services Building is a highly specialized environment to house the management information services division.

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FRANK MORGAN
Photography

32

PLANNING for a new Norfolk Area office of the Virginia Employment Commission began in late 1975, and the building was completed early this year. It houses approximately 70 personnel in two stories of 9,000 square feet each, for a total of 18,000 square feet. A basic concern from the start was the need for a "businesslike" image, appropriate for the type of activity taking place in the facility. It was felt that a contemporary approach would be most logical in this case, and the design has evolved into a unique, very distinctive structure, easily recognizable from the well-traveled artery on which it fronts, Virginia Beach Boulevard.

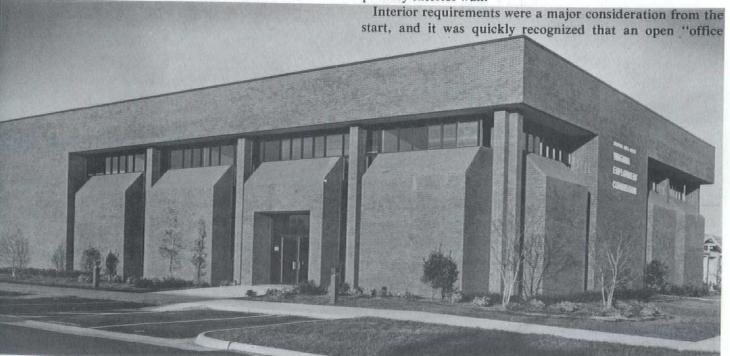
The exterior facade is a combination of brick, dark bronze aluminum window frames with solar bronze glass and

Founded 18





exposed stucco soffits. One's initial impression on driving up to the building is that of a highly sculptured structure, as each side of the building is a series of brick planes and recessed glass. Since there are numerous visitors to the facility on a daily basis, it was important to have an entrance which was easily identified. The resultant front entry is deeply cut into one of the massive block forms making up the primary exterior wall.



landscape" system would be most appropriate for the multiple operations taking place within the building. This type of system permits maximum flexibility, necessary because of rapidly changing space requirements of many activities such as the claims, industrial and trade areas. The open plan also promotes a feeling of spaciousness, while insuring privacy where needed through variations of individual partition unit heights. Extensive sound control materials were utilized, especially in the conference and computer equipment areas.

Computer terminals, key punch machines and job bank data entry machines have been designed into the plan, enabling the staff to utilize this equipment much more efficiently than before. In limited instances, closed spaces are employed for sound-proof testing rooms, interview cubicles

and some claims section cubicles.

Beach Building Corp. of Virginia Beach was general contractor and handled concrete work and carpentry.

Subcontractors & Suppliers (Virginia Beach firms unless noted)

Jessee Construction Co., Inc., excavating, site earthwork & sodding, seeding, etc.; Princess Anne Pipe Co., site pipework; Forrest Exterminating, soil poisoning; Ames & Webb, Inc.,

paving contractor; Hall-Hodges Co., Inc., Norfolk reinforcing steel; Peninsula Masonry Co., Inc., masonry contractor; Chesapeake Steel, Inc., Norfolk, structural steel steel joists & steel roof deck; Miller Manufacturing Co., Inc. Richmond, millwork; K & P Construction Co., Portsmouth caulking; Tidewater Roofing, Norfolk, built-up roof; and Matthews Painting & Drywall, Inc., wall insulation, plaste contractor — stucco, metal stud/drywall, painting contracto & wall covering.

Also, Binswanger Glass Co., Norfolk, glass, glazing storefront — architectural metal work; Tidewate Architectural Products, Norfolk, metal doors & frames hardware supplier & specialties — toilet partitions & accessories; Bronson Equipment Co., Richmond, foldin doors; Ceramic Tile of Florida, Inc., ceramic tile; John H Hampshire, Inc., Norfolk, acoustical treatment; New Floors Inc., resilient tile & carpet; Commonwealth Equipmen Sales, Norfolk, equipment — fire extinguisher cabinets; L. F. Chiselbrook, Inc., Norfolk, elevator; Amber Booth Vibration Shock & Sound Control Corp., sound vibration isolation Harry L. Brown, plumbing contractor; Sheet Metal Specialt Co., heating/ventilating/air conditioning contractor; an Brooks Electric Co., Inc., Chesapeake, electrical contractor.

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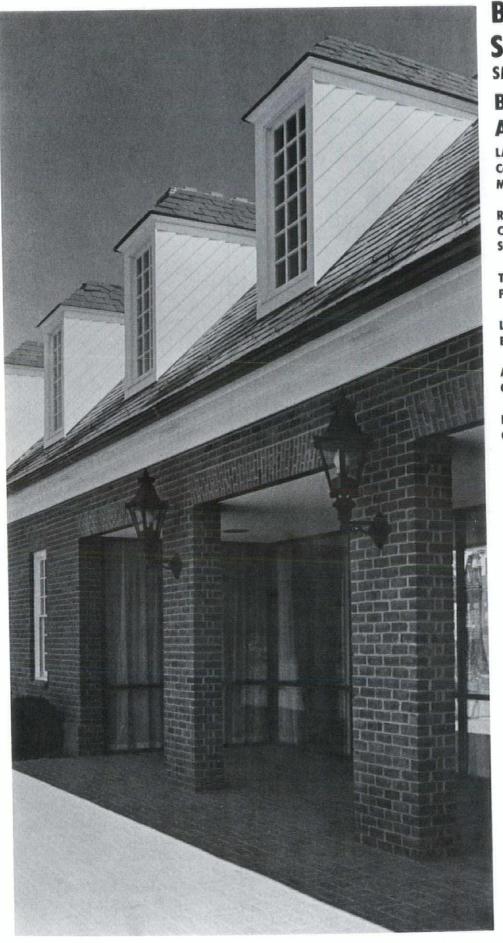
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VIRGINIA RECORD MAGAZINE



BANK OF SMITHFIELD

SMITHFIELD

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LAWRENCE E. PERRY & ASSOCIATES Consulting Engineer, Mechanical/Electrical

RICHARD L. WILLIAMS Consulting Engineer, Structural

THE DESIGN/BUILD TEAM
Project Coordinator

Landscape Design & Photography BY THE ARCHITECT

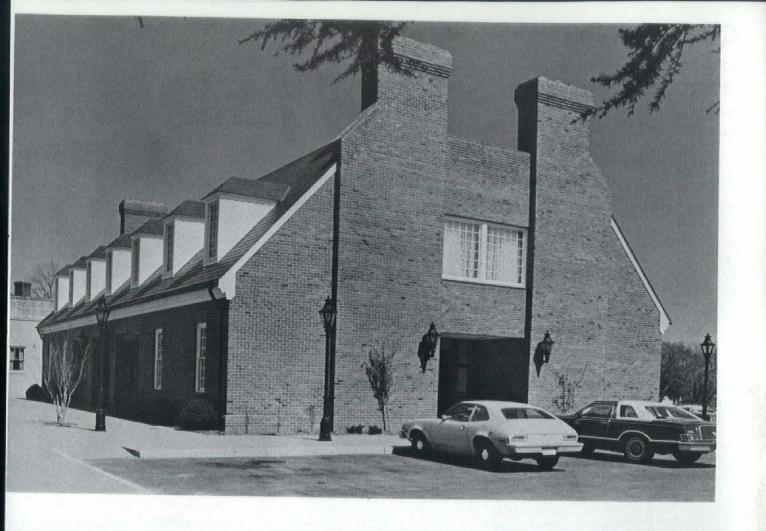
AMERICAN FURNITURE & FIXTURE CO., INC., Interior Design

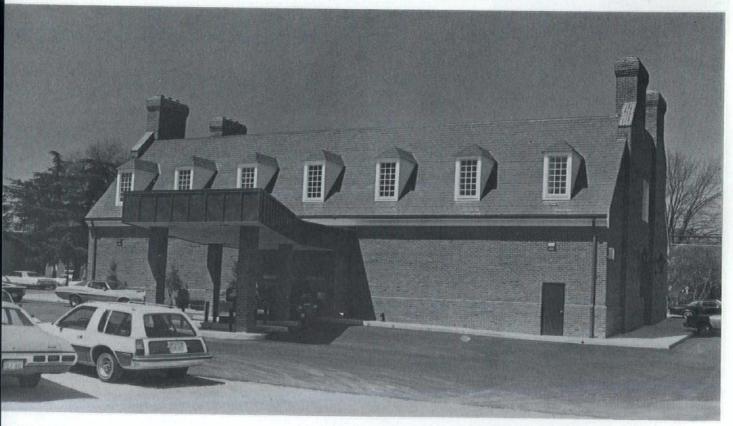
DAYS CONSTRUCTION CO., INC.
General Contractor

CATFISH HUNTER was the cent of attention. No, the scene was Yankee Stadium, and the ace New Yopitcher wasn't throwing curves. He wentertaining customers and visitors the Grand Opening of the nodowntown office of the Bank Smithfield. This gala open house to place in Smithfield, Virginia, December 1, 1977. The Bank Smithfield is an affiliate of Domini Bankshares Corporation headquarter in Roanoke.

The site of the new facility is local adjacent to the bank's former quarte facing on Main Street (Route 258) a reaching across the block to Ced Street. The topography is gentle fall from Main Street about three feet to center of the site and then almost le to Cedar Street. Vehicular circulation tradition designed the counterclockwise fashion. Parking provided at each side of the build and at the rear beyond the drive facilities. Traffic may enter or exit fr both adjacent streets. For drive banking, a window is provided toget

(Continued on page





tell the Virginia Story

AUGUST 1978

CROCKETT SPRINGS UNITED METHODIST CHURCH

SHAWSVILLE **BYRON R. DICKSON, JR. - ARCHITECT**

HALL'S CONSTRUCTION CORPORATION, General Contractor

Photography BY THE ARCHITECT

"THE LITTLE brown church in the dell." A poetic and realistic description of the new Crockett Springs United Methodist Church.

Located approximately five miles south of Shawsville, on State Route 637, this new worship facility provides an appropriate spiritual focal point for the entrance to Camp Alta Mons. Both Church and Camp are activities of the Roanoke District, United Methodist Church.

The Crockett Springs worship facility is a merger of two rural ministries, the Alleghany and Piedmont United Methodist Churches. The Alleghany Church was organized around 1829 and the Piedmont Church dates back to 1875. Prior to this building program, both churches were occupying facilities built around the turn of this century.

The two original churches, located in close proximity to each other, were in a no-growth situation. The Methodist Conference, recognizing the advantages of merger, encouraged initial discussions which eventually led to the combined ministry of Crockett Springs.

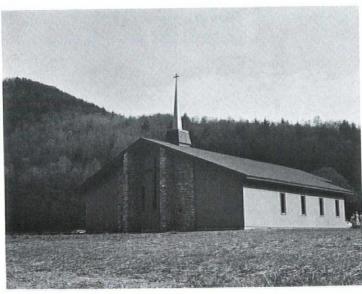
To assist their churches in funding new construction and necessary repairs, the Methodist Conference and Roanoke District have budget items called Church Extension Tithes. These funds are controlled by the Board of Missions and Church Extension. Each year churches may request these funds to aid their building and repair needs.

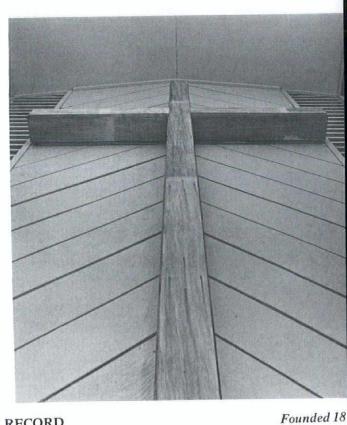
The members of Crockett Springs did much themselves. They raised mone through the sale of property belonging to each individual church. Thei womenfolk held bake sales and operated concession stands at variou events. Youngsters conducted ca washes and other money raising activities. One boy sold his pony to hel the building fund. Even forme members who have moved from th community sent contributions. Youn and old, members of the Church District and Conference all had a hand in the realization of this new spiritua edifice.

At the entrance to Camp Alta Mon the site occupies 5.3 acres of reasonabl level ground. The new church is readil visual from the main road (Rt. 637) an its presence is felt throughout th



38





wland activity areas of the Camp. The irrounding ecology is truly magnifient.

The new building provides 3,162 quare feet of enclosed space in a single ory configuration. The major element the sanctuary which will comfortably at 100 worshippers. The education ing can be used as a single activity om or can, through the use of folding artitions, be subdivided into four assrooms. Additionally, there is rovided an entry foyer, coat room, illets and circulation space.

The construction is wood frame on a asonry and concrete substructure. Tood trusses provide the roof framing, he exterior closure is plywood siding and asphalt shingles. Windows are conditional casement. Interior finishes are unted drywall, carpet and vinyl bestos tile. Many of the furnishings chas pews, altar and pulpit come come the former worship facilities clonging to the Alleghany and edmont Churches.

It is important to note the role that ockett Springs United Methodist nurch will play in the activities of amp Alta Mons. A close relationship envisioned between campers and rship facility. Although the camp is ned and operated by the Roanoke strict of the United Methodist nurch, it is open to all denominations. addition to the well organized program conducted roughout the summer, many different oups use the Alta Mons facility for ucation, recreation and retreat tivities. Individuals are invited yearand to enjoy the family camping ovisions. All visitors are welcome and couraged to visit the new church.

The Consecration Service was held on nday, April 16, 1978. Rev. Emory N. rpley, Pastor, conducted the service sisted by lay leaders and former rgy. Rev. James L. Duley, Roanoke strict Superintendent, offered the assecration rites.

Hall's Construction Corporation of awsville was general contractor and ndled excavating, foundations, ncrete work, masonry work, nework, caulking, roofing, and wall ulation.

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Brothers, Roanoke, specialties; Oscar W. Smith Mechanical Contractors, Inc., Salem, plumbing/heating contractor; Jarrett Electric Co., Inc., Roanoke, electrical contractor; and Wallace Brothers, Roanoke, Fiberglas spiral.

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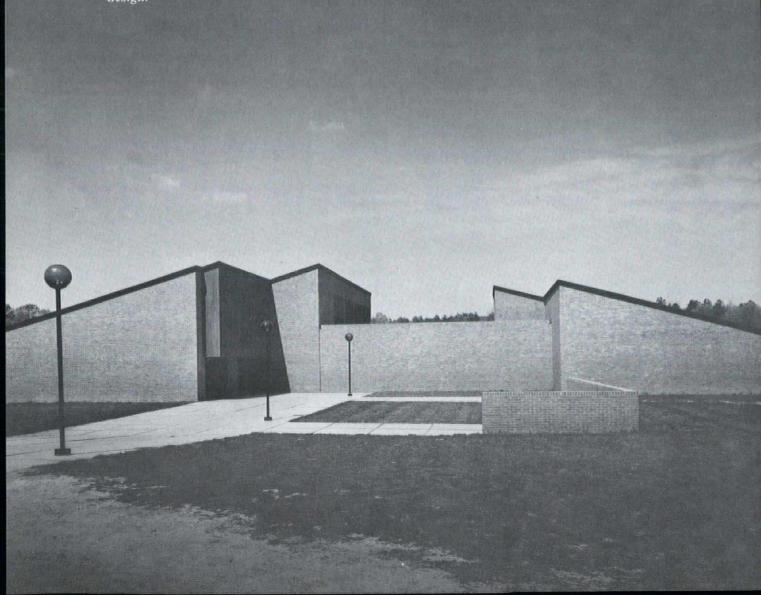
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JOHN E. HARRIS, Consulting Engineer Mechanical/Electrical

ALVIN W. DUNBAR, Consulting Engineer Structural

FRANK B. McALLISTER, INC., General Contractor HUFFMAN STUDIO, Photography

THE WARM BRICK and residential scale of this new dining hall contrast sharply with the older institutional buildings at Hanover Learning Center which is operated by the Division of Youth Services of the Virginia Department of Corrections. A primary goal of the design of the facility was to create a relatively cheerful eating environment which might, in a small way, brighten the day of the juveniles at the Institution. Emphasis was also placed upon vandal-resistant design.

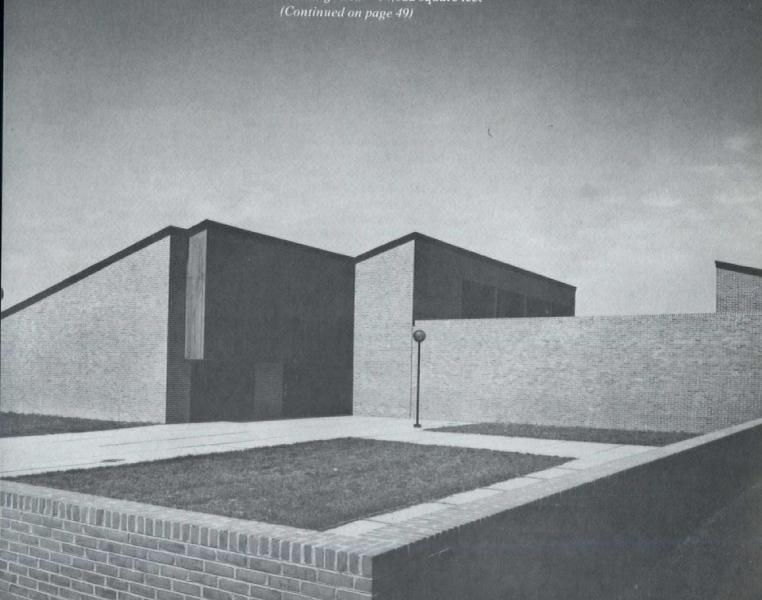






Included in the 14,000 square foot building are a complete kitchen, a dining area which can be used as a multi-purpose space, and a central storage space for the whole institution. A single loading dock serves both kitchen and storage, thus simplifying receiving operations for the learning center. Mechanical equipment is concealed under the sloped roof of the kitchen.

Owner: Commonwealth of Virginia, Department of Corrections Building Area: 14,022 square feet



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SERVICES were held in the new Sanctuary of the Main Street Baptist Church for the first time on Easter of this year. This marked the culmination of efforts by the congregation to upgrade their physical plant either by renovating the then existing sanctuary building or by demolishing the old sanctuary and erecting a newly designed building for worship.

With these alternate courses in mind

PARIOR SECTOR PASSES

FINAL SECTOR SE

the building committee instructed the architects to make a feasibility study for renovating the old sanctuary as compared to a study for a new sanctuary building. The studies, made in the summer of 1973, encompassed possible seating layouts, choir location, structural soundness of the building, circulation patterns to the existing educational facilities, along with an approximate cost of the restructuring.

as compared to the same facilities in new building with the approximate co of new construction.

After much deliberation by the congregation, over a long period time, the decision was made to advit the architects to begin preliminal plans in February of 1975 on a new sanctuary building, using contemporary design that would

(Continued on page 5



VIRGINIA RECORD

Founded 1

For The Record

Bristol Steel Executive Is Bible Week Leader

William J. Tilley, Jr., President and hief Executive Officer, Bristol Steel & on Works, Inc., Bristol, Virginia, has een named Associate Chairman for he 38th National Bible Week November 19-26) according to an nnouncement by Donald E. Procknow, resident, Western Electric Co., Inc., ho is serving as National Chairman for ne interfaith observance.

Tilley, a Methodist, is a native of ristol. His grandfather founded the

rm he now heads.

He was educated at the University of lichigan, at Georgia Tech and at Yale

Among the educational, civic and dustrial organizations he has served e the Bristol Boys Club, Staunton ilitary Academy, King College, mory & Henry College, Virginia termont College, National Junior ennis League, Greater Bristol Area namber of Commerce, Virginia namber of Commerce, American stitute of Steel Construction, Rotary, d the Virginia Association of anufacturers.

Donald E. Procknow, who made the nouncement, is President and Chief ecutive Officer, Western Electric

mpany, Inc.

Honorary Co-Chairmen are Hon. thur J. Goldberg, Rev. Dr. Billy aham, Rev. Theodore M. Hesburgh, n. Benjamin L. Hooks, Archbishop kovos, Tom Landry, Art Linkletter, orge Meany, Mrs. Norman Vincent ale, Archbishop John F. Whealon d Rev. Dr. M. L. Wilson. The Laymen's National Bible

mmittee has sponsored the interfaith servance since 1941 when its

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inaugural radio program was interrupted with the news that Pearl Harbor had been bombed. Largely a mass media effort from its inception, the campaign features print and broadcast advertising; newspaper cartoons, features and editorials; and special projects and displays by clubs and organizations, churches and synagogues, libraries and bookstores, labor unions, business firms, and the Armed Forces.

Cooperating religious groups are the U. S. Catholic Conference, Greek Orthodox Archdiocese, Jewish Committee for National Bible Week, National Council of Churches, the Christian Scientists, Mormons and the American Bible Society. Information and materials may be obtained from the Laymen's National Bible Committee, 815 Second Avenue, New York, N.Y. 10017.

Mid-State Tile Employs New Sales Representative

 Mr. Frank Irving recently joined Mid-State Tile Company as Sales Representative for the Virginia, West Virginia, Maryland, Washington, D. C. and Philadelphia areas. Irving, a Virginia native, attended Randolph Macon College in Ashland, and now lives with his family in Richmond. He comes to Mid-State with an extensive background in many areas of the building materials industry, having been employed with U. S. Gypsum and General Foam Corporation, Norfolk, Virginia, as Sales Manager, Industrial Products.

Mid-State Tile Company, founded in 1957, now operates two manufacturing plants, one in Lexington which produces an extensive line of glazed white-bodied floor and wall tile, and a second in Mt. Gilead, N. C. which began the manufacture of unglazed



quarry pavers in 1974, and has recently added a glazed version of the quarry tile to its line. Mid-State now sells to some sixty wholesale distributors throughout the Eastern United States with some distribution in the far west and foreign countries.



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Regulatory Agencies . . . Friend or Foe?

This article was sent to us by Amway Corporation, a direct-selling company located in Ada, Michigan. From its inception in 1959, Amway Corporation has been dedicated to the principles of free enterprise. Its structure as a company is designed to promote, encourage, and be a positive force for the concepts and ideals of the free enterprise system. Further displaying Amway's commitment to free enterprise, a 60,000-square-foot Center of Free Enterprise, housing the Free Enterprise Institute, was dedicated on May 25, 1973.

The Center contains three exhibits created by The American Economic Foundation for the Hall of Free Enterprise at the New York World's Fair. Guided visitor tours are conducted daily. The Free Enterprise Institute conducts seminars, workshops, and symposia for teachers and students, maintaining close liaison with colleges and universities active in economic education . . . Ed.

Picture a mountain of paperwork nearly a quarter mile on both sides at its base, rising nearly 2,000 feet in the air, with a volume of more than 4.5 million cubic feet and you begin to have an idea of the glut of unnecessary paperwork required by Federal agencies alone.

This small mountain of paperwork, and all the labor and expense it entails, would double or even triple if to it were added all the unneeded paperwork demanded by state and

municipal agencies.

The amount of paperwork Federal agencies alone require is estimated to cost the economy \$40 billion a year. That's \$182 for every man, woman, and child in the United States, because these costs are passed along to the consumer in the form of higher prices.

It takes 24 pounds of forms just to fill out the paperwork that relate to public education receiving public support,2 imposing a burden on school systems which eventually comes

down to the taxpayer.

Federal income tax forms are a nightmare, even sometimes to trained tax accountants, mostly because the Internal Revenue Service, which designs them, is exempt from the Federal Reports Act of 1942. The IRS alone generates about

30 per cent of all governmental paperwork.

The Federal Register issued 60,221 pages of regulations alone in 1975. A small radio station in New Hampshire recently spent \$26 in postage just mailing its paperwork to the Federal Communications Commission for a license renewal application. Another radio station owner, George Dodds, president of WGGH, Marion, Ill., estimates that it takes him two months out of every 12 just to complete FCC paperwork.

If a firm gets involved with government contracting, it can be buried in paperwork. For example, recent Congressional

hearings on paperwork heard this testimony:

• For one \$9 million contract, a 3/4 ton truck full of filled-

- out paper forms. •\$750,000 added cost for each of 375 helicopters for government paperwork (that's \$281,250,000 worth of paperwork).
- For one \$29 wrench for a Lockheed C-5A, non-recurring data costs were \$7,000.
- A proposal for nine valves for each F-15 airplane costs \$360 per plane and is 7-1/2 inches thick.

In Baltimore, a small publishing firm merely wanted t prepare some brochures for publication for one of the national health agencies. Not write the brochure, just hand the graphic arts aspects. The government proposal for demanded medical credentials of the ''principal investigators' and details on costs of medical facilities to b constructed. The form was 28 pages long.

Bureaucratic Arrogance

It is almost impossible to get a Federal agency bureaucra to admit a mistake or to back up from a position, even if the position is clearly wrong. An example is the case of a sma independent propane gas distributor in Texas. During the winter of 1974-75, the Federal Energy Administration, hold down propane prices, set up controls on refiner price

and distributor profit margins.

In the ensuing confusion, the FEA permitted a wide gap open between the refiner- and processor-produced gas. The small LP gas distributor was caught in the middle. Addin the maximum amount allowed to his "historical" refiner, I still lost one-third of a cent on every gallon. A larger, but integrated, competitor could sell at six cents a gallo cheaper. There was no way that the FEA would change the ruling to keep this small distributor from going out business.

For the small businessman in particular, dealing with bureaucracy is not merely expensive; it can be aggravatin frustrating, and demeaning. The typical small businessma goes into business because he wants to be independent, b when he runs afoul of unyielding, unreasonable bureaucrac more than one such entrepreneur has put a "For Sale" sig on his business.

'Second Managerial Revolution'

In fact, Dr. Murray Weidenbaum⁵ notes that business suffering through a "second managerial revolution." The first such revolution, he says, occurred years ago whe corporate ownership was divorced from management. Th first revolution ushered in the era of profession management. Now, says Dr. Weidenbaum, a new and f

more subtle revolution is taking place.

The second revolution in business involves a shift managers, who decision-making from shareholders, to government officials, government inspector and government regulators. It is this "hidden managemen that calls the tune, by their decision, as to whether or not given enterprise realizes a profit or loss. Although they ha no managerial responsibility, these behind-the-scen managers affect management and, ultimately, the shareholders.

Dr. Weidenbaum insists that there are very few areas le untouched by the hidden hand of government officials ar regulators. Hiring and wage practices, manufacturin marketing, finance, distribution, pricing, and many mo normal business activities are subject to control as regulation by one of the myriad governmental agencies.

The synergistic aspects of governmental overregulation can be disastrous for business. One example is the food industri Meat-packing plants are required to be kept clean a sanitary. If the industry uses the most practical approach a installs stainless steel and porcelain work surfaces, it m

¹ U.S. Senator Sam Nunn, AN-76-361-.1, ARE-Feb. 2, 1976, P. 10-20.

² Dr. Jack P. Nix, Georgia State Superintendent of Schools, AN-76-S401-24, 4, ARE-Feb. 12, 1976, p. 83-97.

³ Mark D. Littler, Vice Chairman, Commission on Federal Paperwork, AN-76-S721-16. 12, ARE Oct. 14, 1975, p. 167-177.

^{4 &}quot;How Government Chokes Small Business," Armand J. Thiebelot, Jr., Associate Professor of Management, University of Maryland, Speech delivered

Washington University, St. Louis, Mo., December 1975. 5 Dr. Murray L. Weidenbaum, Director for The Center of American Business, Washington University, St. Louis, Mo., and author, "Where Overregulation of Control of Cont Can Lead," Nation's Business, June 1975, p. 26.

iolate Occupational Safety and Health Administration OSHA) standards because these surfaces are highly eflective of noise.

Both OSHA and the Equal Employment Opportunity commission have jurisdiction over toilets. OSHA requires pecial lounge facilities for women. EEOC says, if you have ounges for women, you must have them for men, too.

Sometimes governmental overregulation can even kill a usiness without justification. For example, the Consumer Product Safety Commission inadvertently added toys made y a toy company in Wisconsin to its banned list. By the time hat the commission was made to realize this error, the toy irm was put out of business. This was an especially tragic ncident since the company employed many handicapped

orkers who lost their jobs.

Such incidents are by no means isolated. For example, here is a lot of talk in various governmental agencies about he evils of big business, yet these same agencies are busy illing smaller businesses. Some 350 small grey iron bundries have had to close in recent years because they could ot afford to meet EPA or OSHA standards. The result: Bigger foundries are working to capacity and cannot (or will ot) take on governmental work. In 1975, as a result, there as a shortage of tank castings for M-60 tanks.

Sometimes governmental agencies violate their own egulations. A case in point was the Consumer Products afety Commission's toy-safety buttons, to be worn to ncourage public attitudes toward toy safety. The buttons urned out to be painted with a lead base paint that could

oison if ingested by children.

The automotive catalytic converters, so hastily and nergetically espoused by the EPA to reduce automotive xhaust pollutants, now turn out to contribute their own form f air pollution. The EPA forced these converters on the auto idustry before doing sufficient research to find out what

Some governmental agencies actually hold back research nd development of new products with high potential for nproving the quality of life. For example, when an aircraft anufacturer tried to bid on a nuclear-powered propulsion stem for aircraft, he had to have a "Q" clearance required or nuclear projects. But he could not get the "Q" clearance

nless he already had a contract requiring one.

Sometimes the Small Business Administration will only nd money if you can prove that you don't need it. For kample, one businessman spent all his capital putting a atented product through the prototype stage. The SBA ould not grant him a loan to carry the product through to roduction because he had no product already in anufacture and during the prototype production stage had nown no profits.

In yet another instance, a small firm developed a pushutton lock which could be operated in the dark, with a umber of applications — including use as a padlock. Since e government buys padlocks according to another anufacturer's specifications - many of which were not pplicable and even meaningless — the small firm had no nance of meeting government lock specifications.

It took two years of concentrated pressure to get the

government to test and approve the new lock. Finally, an order was issued, for 100,000 locks, far more than the company could make within the three-month delivery specified. The company had to write off the \$50,000 in expenses it had incurred.

Resistance to new ideas sometimes seems basic to the bureaucratic mind. For example, one company bid on equipment for the Tennessee Valley Authority and was surprised to find that its bid was rejected even though its price was less and its product superior. The company was told that despite the 40 per cent lower price, the specifications - written around another make - specified nameplate details not applicable to the bidder. It did no good for the company to point out to the TVA that its products were superior and that the differences did not affect quality and functions of its machines.

Then there is the case of Steve, a 10-year-old boy who opened a bicycle shop in Los Angeles. He built his business to the point where he had to hire assistants. He operated successfully for three years. Then the State Labor Relations Board cited Steve for employing minors. Steve was summarily forced to close his doors. Not even a cease-and-desist order

would do.

According to Professor Armand J. Thiebelot of the University of Maryland, here is a quick review of how the bureaucratic mind works:

 No bureaucrat believes any other. Duplicate information must be furnished to other agencies.

 Self-preservation is the first law by which the bureaucrat operates. He will oppose new ideas, try to get business to assume as much of the risk as possible.

• The bureaucrat operates by the book, seldom exercises

options even when available.

The bureaucrat likes secrets. He will not provide information, or as little of it as possible. He would rather

judge than instruct.

• The bureaucrat likes to exercise his power, likes to win. The businessman must protect himself by keeping a low target profile, not permitting himself to be bullied and not permitting himself to give up if he feels that he is in the right.

There are times when the Federal government's demand for documentation and reporting requirements goes beyond even a bureaucrat's dream. Back in 1947, the "informal procurement limit" of the Federal government was established as \$1,000 and in 1957 was increased to \$2,500. That was the figure and is the figure today — even though prices have doubled due to inflation beyond which procurement documentation and reporting requirements are necessary. Every time the government buys anything costing more than \$2,500, some businessman has to spend precious hours filling out a lot of forms which elicit little, if any, useful information to the government agency buying his products.

One of the more potent business cripplers in recent years has been The Pension Reform Act. Designed to protect the pension benefits of employees, this act has successfully reduced pension funds available for paying pensions to retirees. The Pension Reform Act implies the possibility of

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personal liability to those who manage pension fund monies. Should losses accrue traceable to poor judgement, for example, the money manager who made the investment could be held liable for the loss. What happens, then, is that pension fund managers make very conservative investments, safe but with relatively low yields. Such an investment policy also means that the stocks of medium-size corporations with high earnings potential are not being traded, with resulting lack of liquidity for the locked-in investor.6

An even more serious aspect of The Pension Reform Act is the overkill built into the Employees Retirement Income Security Act (ERISA). ERISA imposes such a burden of paperwork on business that many small companies have had to abandon their pension plans, wrecking hopes for

comfortable retirement for millions of Americans.7

In 1976 there were 1,300 known pension plan terminations. ERISA requires so many burdensome reports as to raise the cost of administering these plans beyond all reasonable bounds. For example, in one typical case, cost per employee of a 30-person pension plan increased 123 per cent after ERISA. Before ERISA, cost per participant was \$64. After ERISA, cost jumped to \$143 per participant. An analysis of 10 small pension plans with participants ranging in number from one to 30 showed an average increase of 130 per cent in per-employee costs after ERISA.

In these cases, and in many others, ERISA dooms small pension plans to failure. These per-participant costs are purely overhead, administrative in nature, and must be borne by the corporation and not by the employee. In the case of the 30-employee plan mentioned, the annual increase after ERISA imposed a burden of \$2,390 on this small company.

Robert P. Griffin, U.S. Senator, stated: "I am concerned by reports that some of the regulations issued under the new law have resulted in excessive paperwork and administrative burdens, particularly for small firms. Furthermore, I am troubled by a sharp increase in the number of pension plans which have folded since enactment of the 1974 law."

The proliferation of government agencies and their rulings and activities have begun to break down the Constitutional concepts of the separation of powers. When regulations are politically appealing, but unduly restrictive and reduce producitivity growth, governmental agencies encroach upon these Constitutional separations of power provisions.

For example, former Vice President Nelson A. Rockefeller stated: "You're beginning to get a breakdown of the basic Constitutional concept of the founding fathers of the separation of the executive, the legislative, and the judicial branches." He added, "I think we have got to have far more awareness of what we're doing, and what the possibilities are, and what the collateral impacts of our actions are." He cited the 1977 Water Quality Act, which would bankrupt 35,000 of the 70,000 electroplating firms in the U.S., as an example, and the Air Quality Act, which actually did put 50 per cent of America's foundries out of business.

The thrust of Mr. Rockefeller's remarks centered on the fact that governmental regulations which inhibit productivity

must be thought out well in advance to make sure that the ne results to society are beneficial. In effect, what is needed is societal "impact statement" prepared by government.

In commenting on the negative aspects of government overregulation, Mr. Rockefeller noted, "Government ha regulated industry for social purposes, but never fe responsible for it.'

He pointed out that the entire range of government regulations, taken as a whole, inhibit improvement and "result in administrative decisions distin

from legal judgements."

Government agencies and the courts end up having both administer and legislate because the original statutes do n fully contemplate what is involved in achieving objectives.

Each time a federal administrative law judge makes decision, this confusion of powers is taken a bit further. Each time an agency promulgates regulations under broad statutory authority granted to it by Congress, the distinction between the legislative, executive, and judicial branches

further clouded.

Sometimes a governmental agency "forces" a business sign a consent decree rather than face the expense of fighting the agency in the courts. The problem is that a conse decree, while it does not involve an admission of guilt, mak it easy for the agency to imply guilt and to coerce oth companies into compliance. The problem is that, once consent decree is signed and is noted in the newspapers, t implication of wrongdoing is hard to defeat. This is w many companies will no longer bow to governmental agen pressure to sign consent decrees.

For example, Arthur Young & Co., a major accounting firm, paid legal fees into the seven figures to fight the U Securities and Exchange Commission's efforts to get them sign a consent decree that would have cost the compa nothing. 10 The principle involved was the firm's integrity, at in one case the court awarded the firm \$600,000 for costs as in another, to quote the judge, "There was not one scintilla evidence that anything had been misstated or omitted in t

firm's report on a client.' While the intent of Congress is undoubtedly the pub interest, the governmental agencies it spawns may well tu this country into a "bureaucratic police state" of maj proportions. The United States has already slipped behind Sweden, Japan, Germany, and other highly industrializ countries in productivity. We are no longer the leader of t First World in return on investment capital. In fact, capit the lifeblood of business and prosperity, is being siphoned by governmental regulations which unnecessarily hamp and hamstring business and the capital formation it fosters

It is the responsibility of each citizen to make sure that t present Administration, which campaigned on the platfor of reducing bureaucracy and simplifying government, live

up to its promise.

Lack of capital investment has already resulted in high than necessary unemployment and probably will cause ev more unless the trend is reversed.

8 Letter from U.S. Senator Robert P. Griffin to Senator Russell B. Long, then Chairman, Senate Finance Committee, Jan. 2, 1976.

^{6 &}quot;Governmental Overregulation and The Capital Crisis," Paul K. Kelly, Partner, Prescott, Ball & Turben, Financial Executive, November 1976, p. 12.

^{7 &}quot;Financial And Administrative Burden On Small Business of ERISA's Required Reporting And Plan Formation," Bruce G. Fielding, Commission Commission on Federal Paperwork, Secretary, National Federation of Independent Small Business. AN-76-S361-30.1, ARE-Feb. 2, 1976, p. 10-20.

⁹ Industry Week, Jan. 3, 1977, p. 40.

^{10 &}quot;One Auditor Who Likes To Fight Back," Edwin Darby, Chicago Sun-Times. Jan. 27, 1977.

s consistent with MSSD's objective to a variety of learning experiences. The school atmosphere suggests permanence and stability. while in reality, physical change may be eadily accomplished. What is most lexible about MSSD, however, is the nierarchy of spaces provided. Areas can be used in many different ways lepending on curriculum needs or eacher/student preferences. Possible onfigurations allow for conventional nclosed classrooms, small groups, arge groups, individual instruction, nd opportunities for self-teaching by neans of computer-assisted instruction.

Recognizing that people are ndividuals before they are social eings, HTB planned private spaces for tudents, staff, and visitors as well as reas designed to stimulate conversation. Because visual privacy is importnt when communicating non-verbally, nany of these areas are purposely seluded.

Another major consideration was to rovide for constant observation by siting educators, parents, and other udents without distracting the tention of the pupils being observed. here are few open-plan schools for becial education facilities. During the esign process, it was determined that a artial open-plan system is a viable ption. Disruption caused by visitors to n instruction program is much more kely to occur in situations with clearly efined boundaries; students in a aditional, enclosed classroom will feel vaded if a stranger enters the room. lany schools for special education lve this problem by placing observers chind one-way mirrors or through use closed circuit television, but (for veral reasons) MSSD rejected these ptions. To accommodate observers at SSD, we designed a multi-levelled hool with carefully designated walkays and points from which guests can serve instructional activities. The stuents don't feel spied upon because ey become acclimated to the presence others. Balconies and observation pints are unobtrusive so that circulaon can occur around the perimeters of assroom areas without being a disrupe force. Observers are by no means stricted to these circulation areas;

often guests are invited to join in classroom activities, but the educational priorities of the students have been respected.

Provisions for flexibility of environment and spatial options have been made in student housing as well. To promote a sense of community and an informal residential atmosphere, the housing is designed on an intimate scale. No individual building accommodates more than 100 students, and the houses are grouped in a "village cluster." The interior surroundings are purposely casual so that students will feel comfortable about having fun. Because we believe that some of a student's most valuable learning experiences take place away from the classroom, design to encourage social interaction is also applied to the residential areas. However, teen-agers have varying needs for privacy and independence, so there are several housing options available. Students are allowed a great deal of freedom in creating their own environment. Rooms are easily reorganized with furniture kits, and students are invited to add their own decorating ideas to the already warm and pleasant surroundings.

HTB designed MSSD with the attitude that a teen-ager is no less a teen-ager because he or she is deaf. That which is basically attractive to

hearing students — and contributes to their intellectual and emotional growth — is equally important to deaf students. The school was designed to be both pleasant and practical, creating an environment that is so dynamic, students are eager to come to school. We intended MSSD to be a fun place to be.

American Construction Co., Inc. of Washington, D. C. was general contractor for Phase I. A. A. Beiro Construction Co., Inc., of Alexandria, was general contractor for Phase II.

The landscape architect, Colonial Flower & Garden, of Washington, D. C., handled sodding, seeding, etc., landscaping and landscaping work.

Subcontractors & Suppliers Eric Excavation, Bladensburg, Md., excavating; McKinney Drilling Co., Newington, piling; Asphalt Construction Co., Washington, D. C., paving contractor; Moses-Ecco Co., Inc., Arlington, foundations, concrete contractor, reinforcing & foundation insulation; Maloney Concrete Co., Bethesda, Md., concrete supplier; Strescon Industries, Inc., Baltimore, Md., prestressed concrete; John B. Kelly, Inc., of Pa., Philadelphia, Pa., masonry contractor & structural (glazed) tile: L. C. Smith, Inc., Alexandria, masonry supplier; Universal Atlas Mortar. Hyattsville, Md., mortar; Otto Flaim Contracting, Inc., Riverdale, Md., stonework contractor; Stoneyhurst

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Also, Montague-Betts Co., Inc., Lynchburg, steel grating (Phase II); Fred S. Gichner Iron Works, Inc., Beltsville, Md., miscellaneous metal; Olson Woodwork Co., Inc., Rockville, Md., handrails, carpentry, structural wood, millwork, paneling & wood Seating Co., American doors: Norristown, Pa., cabinets & equipment; Peter Gordon Co., Washington, D. C., waterproofing; Wilcox Caulking Co., caulking; AC & S, Inc., Columbia, Md., wall insulation; The Southern Plate Glass Co., Baltimore, Md., glass, glazing contractor, windows, window wall & storefront; American Steel Products, Farmingdale, N. Y., metal doors & frames; Fries, Beall & Sharpe Co., Springfield, hardware supplier; John H. Hampshire, Inc., Baltimore, Md., plaster contractor, gypsum board contractor & acoustical treatment; and, Peter Bratti Associates, Inc., New York, N. Y., ceramic tile & terrazzo.

Others were: Southeastern Floor Co., Beltsville, Md., resilient tile; Super Sky Products, Inc., Thiensville, Wisconsin, special flooring; Clifton D. Mayhew, Inc., Arlington, painting contractor; Pittsburgh Paints Products, Pittsburgh, Pa., paint supplier; Glidden Co., Washington, D. C., special wall finish & wall covering; Globe Steel Products, Deer Park, N. Y., specialties; Paddock Pool Construction Co., Inc., Arlington, swimming pool; Otis Elevator Co., Washington, D. C., elevators; Lloyd E. Mitchell, Inc., Baltimore, Md., sprinkler contractor, plumbing fixture supplier, plumbing / heating / ventilating air conditioning contractor; and Walter C. Doe Co., Washington, D. C., lighting fixtures/electrical equipment supplier & electrical contractor.

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Plants: Roanoke and Troutville

NEW SERVICE BRIDGE, MCV

(From page 21)

loading that the new bridge would impose. Two belled caissons at each end of the bridge were designed to carry a total of three bridge levels. The superstructure consists of rolled structural steel members and steel floor decks.

The contractor was required to set the steel framing over a weekend to avoid major disruption of traffic. Four girders each one 36 inches deep and 85 feel long were installed during one day's work.

It was necessary to rework an existing laboratory in Sanger Hall and to remodel existing examination rooms in the Nelson Clinic to accommodate the new access corridors to the bridge.

As there is only a 17-inch difference in second floor levels of the two buildings it was possible to ramp the floor of the bridge at a slope well below the maximum allowed for accessibility and use by handicapped persons.

When the new hospital project is complete in 1981 this bridge will form one link in a system of other bridge that will allow people and materials to move between six major buildings of the Medical College of Virginia comples after from the elements and the hazard of traversing busy streets.

Basic Construction Company of Newport News was general contractor and handled concrete work.

Subcontractors & Suppliers (Richmond firms unless noted)

Case International Co., Roselle Illinois, caissons; Read & Co reinforcing; Massey Concrete Corp concrete supplier; Montague-Betts Co Inc., Lynchburg, steel supplier/ere tion/roof deck; E. S. Chappell & Sor Inc., caulking; N. W. Martin & Bros Inc., built-up roof & roof insulation Walker & Laberge Co., Inc., glazir contractor & window wall; F. Richard Wilton, Jr., Inc., gypsum board cor tractor; O'Ferrall, Inc., acoustic treatment & resilient tile; W. W. Nas & Sons, Inc., painting contractor wall covering; Reames & Moyer, Inc. plumbing/heating/ventilating/air co ditioning contractor; and Ben Colli Electrical Contractor, Inc., electric contractor.

extend the apparent space beyond the confines of the actual room floor area. Many built-in cabinets are incorporated to lessen the need for space occupying furniture.

The second floor is devoted to the sleeping area, with the master bedroom/bath and deck and two children's bedrooms. The second upstairs bath includes a skylight and the metal flue from the fireplace below passes uninterrupted up through a hallway opening.

Halfway up the wide, gracious stairs, tucked above the garage is the study, a cathedral ceilinged room highlighted by a skylight and half-round transom window salvaged from an older structure.

Interior finishes include a quarry tile foyer floor, stained white pine trim throughout and oak handrails with colonial pickets. The kitchen cabinets are naturally finished oak with dark brown formica tops.

The house and its windows are oriented to capture the sun, even though the Southern exposure has few windows; and the steeply pitched roofs are angled to receive future solar collectors.

The house bridges the gap between expensive materials and low total cost by keeping the actual square footage low while utilizing space organization concepts to give the illusion of spaciousness.

S. Michael Evans, the architect is also the owner of this residence and handled his own general contract. Items done by the architect/owner include sodding, seeding, etc., landscaping (materials by Poquoson Nursery), D.A.P. caulking, and roof and wall insulation (Owens-Corning supplied by Krause-Mayo, Inc., Newport News).

Subcontractors & Suppliers (Newport News firms unless noted)

Marvin Boyea, excavating, foundations & carpentry; Manfred Freeman, Jr., Poquoson, concrete contractor; Benson-Phillips, reinforcing; Chisman Co., Hampton, concrete supplier; Sherwood Emerson, Poquoson, masonry contractor; ones & Ball, Inc., Hampton, masonry supplier; Peninsula Supply Co., handrails, tructural wood, millwork & wood doors; Tal Forrest, Jr., Poquoson, cabinets; R. N. Wood, Yorktown, asphalt shingle roofing; Keller Products, Milford, vindows; Seaboard Supply Co., hardware supplier; and Johnson Drywall, gypsum poard contractor.

Also, Brunk Tile Co., ceramic tile; Southeastern Tile & Rug Co., Inc., Hampton, esilient tile & carpet; Edwards Flooring Co., wood flooring; Freeman-Evans, oquoson, painting contractor; Sherwin-Williams, paint supplier/manufacturer; Ruble Painting Co., exterior staining; Howard E. Marquart & Co., Norfolk, atural skylights; S & J Appliance Center, Lightfoot, equipment; Southern lumbing & Heating, Yorktown, plumbing fixture supplier; Terry Parker, lumbing contractor; Air Control, Inc., Hampton, heating/ventilating/air onditioning contractor; Tri-City Electric Supply Co., Richmond, lighting fixtures upplier; Mallory Electric Co., electrical contractor; & Carrier Corp., N.Y., N.Y., eat pump.

ANOVER SCHOOL DINING & STORAGE

(From page 41)

Construction Bid: \$390,595 March 1973

Cost per square foot: \$28.00

Services provided: Full architectural services

Frank B. McAllister, Inc. of Richmond was general contractor and handled site learing, grading, excavating, controlled fill & finished grading and seeding. The rm also was responsible for supervision, rough and finished carpentry, istallation of hollow metal doors and windows, hardware, pass window, fire ktinguisher cabinets, identifying devices, dock bumper, toilet accessories and iscellaneous work.

Subcontractors & Suppliers (Richmond firms unless noted)

Lee Hy Paving Corp., stone base & surface treatment; Dodson Brothers, soil eatment; Bowker & Roden, Inc., reinforcing steel; Lone Star Industries, Inc.,

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1704 Arlington Road RICHMOND, VA. 804-355-7876 concrete materials; Huddle Place Crete, concrete work; Lee Roy Boschen, Jr., Ashland, masonry; Holmes Steel Co., Inc., Ashland, structural steel, miscellaneous metals, steel joists, slabform, metal deck & steel erection & stair nosings; J. B. Eurell Co., fibered roof deck; and Robert J. Bates, Greensboro, N. C., architectural aluminum louvers.

Also, Richmond Roofing Co., Inc., Ashland, built-up & shingled roofing & sheet metal; Davenport Insulation Co., Springfield, blanket insulation; Southeastern Waterproofing & Concrete Co., Inc., silicone waterproofing; J. S. Archer Co., Inc., hollow metal doors & frames, entrance frames & window walls, pass & window shelf; Walker & Laberge Co., Inc., glass & glazing; Manson & Utley, Inc., caulking & sealants; Ruffin & Payne, Inc., millwork; A. Bertozzi, Inc., metal furring, steel studs & drywall; Richmond Tile & Marble Co., ceramic & quarry tile; and Consolidated Tile Co., Inc., acoustical & metal pan ceilings, resilient floor covering & base.

Others were: Roanoke Engineering Sales Co., Inc., fabric folding door identifying devices, toilet accessories & fire extinguisher cabinets; L. K. Vass, Inc., painting & wall finishes; Architectural Hardware, Inc., finished hardware; Trefz & Steenburgh Equipment, dock bumpers; Triangle Plumbing & Heating, Inc., outside utilities, plumbing/heating/ventilating & air conditioning contractor; Hill Electrical, Inc., Mechanicsville, electrical; and Janosko Food Equipment Corp., kitchen equipment.

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BANK OF SMITHFIELD

(From page 36)

with two free-standing units. Provision have been made for a third.

Pedestrian access is provided directly from Main Street through an entrance colonnade. Customers can also entered from the southwest side as they comfrom the primary parking areas. Al outdoor pedestrian areas are pave with brick and blended into bot entrance areas.

The building is designed in the traditional style of domestic Colonia architecture indigenous to the Tidewater area. The beautifur plantations which adorn the riverside of coastal areas are still an exerting influence in the architecture of Easter Virginia.

The total enclosed area is 6,90 square feet in a two-story configuration. The main level has 4,920 square fee and the upper level uses 2990 square feet.

The lower level is dominated by the open lobby and officers' platform. Seven teller stations are provided an six officer and secretary stations can be accommodated on the platform. Adjacent to the teller area at one end, the cash room. At the other end is generous vault and coupon booths. A office for the bank president and conference room is adjacent to the platform. A correspondence lift assist documents circulation between floor Service also includes a night depositor and future provisions for a walk-uexterior banking unit.

The second floor houses a boar room, bookkeeping operations, records retention vault and an employe lounge.

The structure is masonry bearing was upported on a concrete substructur. Two large steel trusses span between the two massive chimneys at each end support the second floor and the hig roof. A slate roof spans from the massive floor cornice to the parapet above the high roof. The parapet condition serve to screen the required mechanic equipment which is a consideration in encountered by the designers who originated this style of architecture.

Interior decor follows the Coloni

heme employing motifs typical of the period. Wainscots with chair rails and rown moldings are used throughout. A ortion of the main lobby is raised and itted with a pair of elegant chandeliers.

Much effort was made both inside nd out to conform with the town's istoric preservation goals. All exterior edestrian lighting uses a style of anterns which will be employed hroughout the downtown area as part f the Smithfield beautification rogram.

Days Construction Co., Inc. of Salem vas general contractor and handled arpentry, roof insulation, wall nsulation and foundation insulation.

Subcontractors & Suppliers Salem firms were: Valley Steel Corp., einforcing; Laprad Roofing & Sheet detal, slate roofing; Marion Glass & luminum, Inc., glass, glazing ontractor; and Timber Truss Housing vstems, Inc., windows.

Roanoke firms were: Webster Brick o., Inc., masonry supplier; Skyline aint & Hardware, Inc., metal doors & rames, wood doors & hardware upplier; John H. Hampshire Corp., coustical treatment & resilient tile; lesse & Hurt, Inc., painting contractor wall covering; Pittsburgh Paints Cener, painting contractor/supplier; ightolier, lighting fixtures supplier;

and Diebold, Inc., banking equipment.

Others were: Farmers Service Co., Smithfield, concrete contractor: Daniels & Ingram Masonry Contractors, Colonial Heights, prestressed concrete; Flamingo, mortar; Barnum-Bruns Iron Works, Inc., Chesapeake, steel supplier; American Furniture &

Fixture Co., Inc., Richmond, cabinets: R. F. Scott Electrical & Mechanical Contractors, Smithfield, plumbing fixture supplier, plumbing/heating/ventilating contractor; B. D. Willard Co., Inc., Hampton, electrical contractor; and L. F. Chiselbrook, Inc., Newport News, banking equipment.

MAIN STREET BAPTIST CHURCH

(From page 42)

compatible with the existing Church Educational Building.

The recently completed Sanctuary seats 320 on the main floor, a choir of 20, with space in a rear balcony for 50, for a total seating capacity of 390. The wing connecting the sanctuary with the educational building administrative offices, pastor's study, church parlor, choir practice room, a combination library and conference room and two toilets, along with a corridor giving access to all areas.

Stained glass windows in the old sanctuary were removed and stored before demolition. Since these windows were installed over the years in memory

of long-time established families of the congregation, these were re-installed in various rooms in the connecting wing. One exception was two semi-circular windows which were installed near the apex of the rear wall of the sanctuary to give a circular window. New stained glass windows of contemporary design were installed in the sanctuary proper.

The tower at the main entrance doors has a space on the top level where the old church bell was re-installed, along with provisions for a future carillon. The tower is terminated with a prefabricated fiberglas spire.

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hrough an under-floor duct system.

The general contractor was Slate and pivey, Inc. of Emporia, who, in ddition to coordinating the work of the ubcontractors and suppliers, did the emolition work, foundations and aving.

Subcontractors & Suppliers

Garrett, Moon & Pool, Inc., Emporia, excavating & concrete supplier; Garner k Gray, Emporia, masonry contractor; Lawrenceville Brick awrenceville, masonry supplier; lowell Steel Service, Inc., Weldon, I.C., steel supplier/erection/joists; Varner Moore & Co., Inc., Norfolk laninated trusses & wood decking; Miller Janufacturing Co., Inc., Richmond, nillwork & cabinets; Klugel & Son, nc., Emporia, built-up roof & asphalt single roofing.

Also, Allied Glass Corp., Richmond, lass & storefront; Old Dominion tained Glass, Ashland, stained glass ontractor; Pleasants Hardware, lichmond, hardware supplier; Herman . Curtis Dinwiddie, gypsum board ontractor; Ivey Tile, Roanoke Rapids, l. C., ceramic tile; Jerry W. Allen, mporia, painting contractor; reddie's Plumbing & Heating, awrenceville, plumbing contractor; forris Refrigeration Co., Emporia, contractor; Electrical quipment Co., Richmond, lighting xtures supplier; Linwood M. Pearce, mporia, electrical contractor; Drexel eritage Furniture, Hickory, N. C., nurch pews; and Glasstech Plastic, ic., Roswell, Ga., Fiberglas steeple.

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