



16 June 2010

LTC David Shaffer  
Division of Engineering and Facilities  
Armory Board Section  
1703 Coonskin Drive  
Charleston, WV 25311-1099

RE: RFQ Number: DEFK10019  
West Virginia Army National Guard Buckhannon Readiness Center

Dear LTC Shaffer:

I am very pleased to submit **Omni Associates – Architects’** expression of interest for the Buckhannon Readiness Center. The team we have assembled has a history of successful collaboration on a variety of projects, including **West Virginia Army National Guard** projects such as the **Eleanor AFRC and CSMS** and the **Fairmont AFRC, which was recently bid under budget.**

Our proven team includes **Capitol Engineering, Tower Engineering and Allegheny Design Services.** Because we have worked together on many projects, we can provide the most cost effective design solution for your program needs. As Omni’s Principal-in-Charge, I will guide this team through the design process and serve as the point-of-contact to the West Virginia Army National Guard throughout the duration.

As you are aware, two of our team members, including myself, have specific **military experience** and expertise that in past has proven very valuable. My experience over the past 30 years, both on active duty and active Reserves, allows me to be an **extension of your staff with no learning curve** when it comes to your needs and requirements. Because of this experience, I understand the importance of designing a facility that is **distinctive in appearance** and **functional** to your needs

As a **West Virginia firm** located in Fairmont, Omni Associates - Architects understands that our success is based on our commitment to being responsive. One component of that responsiveness is our proximity to your project location: **Omni’s office is located within 50 miles of Buckhannon.** We provide clients with the results they value most: innovative designs consistent with the building program, cost effective designs that **meet the budget**, and efficient management to provide on-time deliverables and completion. These are qualities that draw our clients back and result in lasting relationships. That’s why we enjoy a **repeat client rate of more than 90%**, a source of considerable pride

Omni’s design team understands that good design must incorporate the operational expenses over the life of the structure. We contemplate long-term operational and maintenance costs when considering design solutions to meet the function and budget of a project. Even without LEED certification, our designs have always consisted of quality that is both **simplistic and sustainable.**

Thank you for allowing us to again present our credentials. We look forward to the opportunity to work with the WVARNG again

Sincerely,  
**The Omni Associates - Architects**

Richard T. Forren, AIA, NCARB  
Principal

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PROCURING DIVISION  
STATE OF WV

**GENERAL TERMS & CONDITIONS**  
**REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid
3. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
4. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods this Purchase Order/Contract becomes void and of no effect after June 30.
5. Payment may only be made after the delivery and acceptance of goods or services.
6. Interest may be paid for late payment in accordance with the *West Virginia Code*.
7. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
8. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
9. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
10. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern the purchasing process.
11. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
12. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, the State may deem this contract null and void, and terminate such contract without further order.
13. **HIPAA BUSINESS ASSOCIATE ADDENDUM:** The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, is available online at [www.state.wv.us/admin/purchase/vrc/hipaa.htm](http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) and is hereby made part of the agreement. Provided that the Agency meets the definition of a Cover Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.
14. **CONFIDENTIALITY:** The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.
15. **LICENSING:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, and the West Virginia Insurance Commission. The vendor must provide all necessary releases to obtain information to enable the director or spending unit to verify that the vendor is licensed and in good standing with the above entities
16. **ANTITRUST:** In submitting a bid to any agency for the State of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the State of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, or person or entity submitting a bid for the same material, supplies, equipment or services and is in all respects fair and without collusion or Fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division. Complete all sections of the quotation form
2. Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Unit prices shall prevail in case of discrepancy. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
4. All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130
5. Communication during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited (W Va. C.S.R. §148-1-6.6)

RFQ No DEFK 10019

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, Limited Liability Company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: OMNI ASSOCIATES-ARCHITECTS, INC.

Authorized Signature: *[Signature]* Date: 6/15/2010

State of WEST VIRGINIA

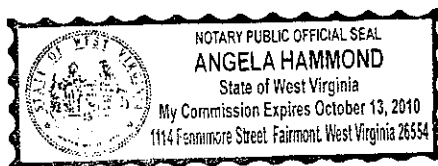
County of MARION, to-wit:

Taken, subscribed, and sworn to before me this 15 day of December, 2010

My Commission expires OCTOBER 13, 2010

AFFIX SEAL HERE

NOTARY PUBLIC *[Signature]*





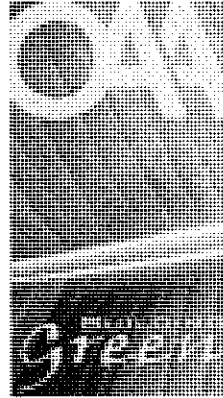
## Buckhannon Readiness Center

### Statement of Qualifications

**Omni Associates – Architects, Inc.**  
1543 Fairmont Avenue, Suite 201  
Fairmont, West Virginia 26554

Voice 304 367 1417  
Facsimile 304 367 1418

Email: [dave@omniassociates.com](mailto:dave@omniassociates.com)  
World Wide Web: [www.omniassociates.com](http://www.omniassociates.com)



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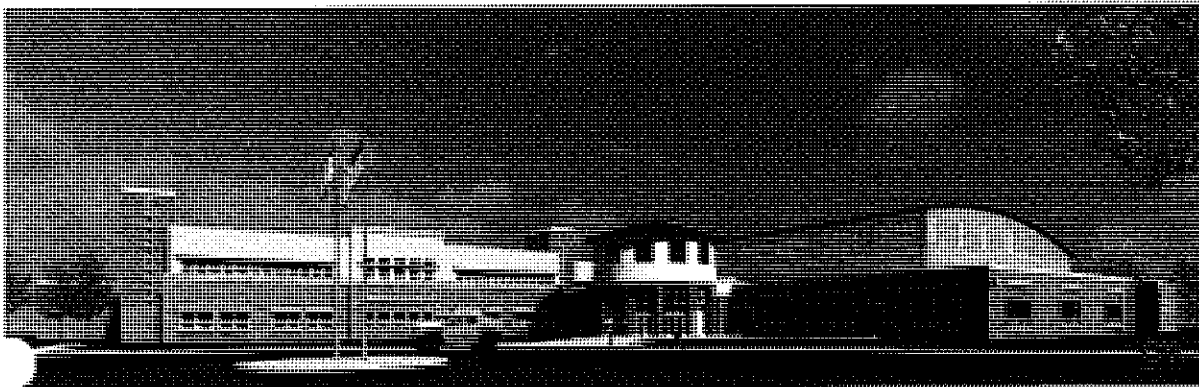
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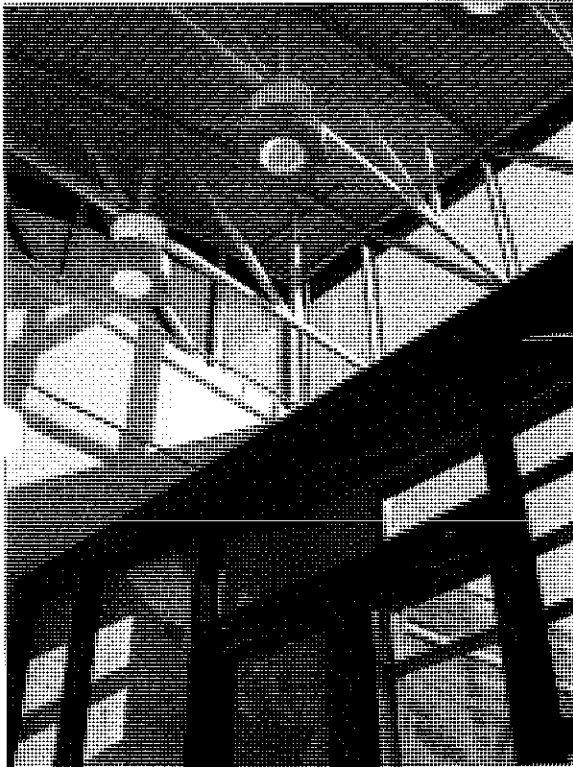
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## Project Understanding, Approach and Plan

The design of any great facility is derived from the aspirations, goals and limiting restraints that are involved in the evolution of the project. Omni Associates – Architects, Inc. has had a successful history of designing intimately with each client and working out collaborative solutions that meet the goals of the project. Your project shall be a unique design that derives from strategic planning recognizing the site context along with the design input of all the participants. The process is integral and requires close communication. To that end, we have implemented a feed-back process for every stage of a project to ensure that the program needs of the client are met and that the Contract Documents reflect the intent as well as the content of the design. Owners' representatives are not only present but heavily involved with all project meetings so that any decisions to confirm or change an owner's program needs can be addressed directly during each step of construction.



We listen, then lead. The unique opportunity that is available to you is that Omni works "hands-on" with the stakeholders of a project and has a very fluid approach to design and documentation. The advantage is direct contact that allows information to be modified on a weekly and, sometimes daily basis. This level of communication is not achieved by long-distance communications and formal meetings. This is one benefit that Omni provides to all our local clients: Fairmont State University, the City of Fairmont, WVU Hospitals, Mylan Pharmaceuticals and the West Virginia High Technology Consortium Foundation have selected Omni and our consultants for numerous projects and have profited from our immediate accessibility.

Omni provides clients with the results they value most: innovative designs consistent with the building program, cost effective designs which meet the budget, and efficient management to provide on-time deliverables and completion. We are a proven team that listens to our clients, produces a quality product, and provides professionalism and attention to detail – from the first sketch to the completed project. These are qualities that appeal to our clients and draw them back for future projects, which results in lasting relationships. That's why we enjoy a repeat client rate of more than 90% - a source of considerable pride. We're confident of our reputation and expertise, and our clients are confident that they will receive superior services.

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**"Your expertise has helped create one of the finest Maintenance Shops in the United States."**

Robert D. Davis, CPT, OD,  
WVARNG  
CSMS Superintendent  
Warren T. Huxley, LTC, EN,  
WVARNG  
Surface Maintenance  
Manager



*The Omni Associates - Architects has created a team of designers and engineers who provide services for the specific needs of this project which includes compliance with performance schedules*



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Omni Associates - Architects, Inc.



## Technical Competencies

Omni Associates – Architects, Inc. is an award-winning architectural firm located in Fairmont, West Virginia. Since its inception in 1980, Omni has earned recognition as a specialist in the programming, planning, and design of a wide variety of facilities including healthcare facilities, commercial offices, high technology centers, education facilities, and military facilities.

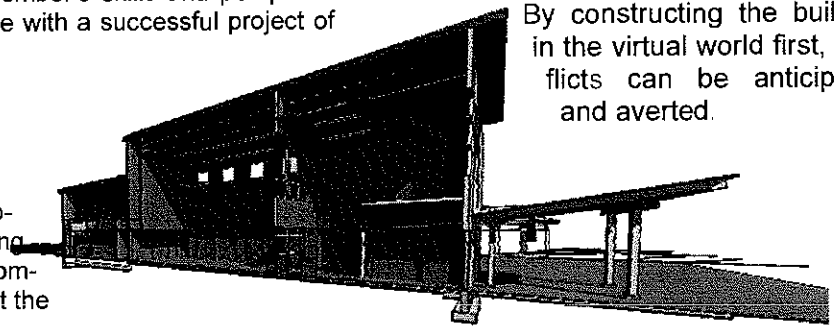
Omni's professional staff is comprised of dedicated, experienced, and creative individuals. Our skilled team includes **6 registered architects**, intern architects, computer-aided design specialists, and knowledgeable administrative support staff. Their quality, expertise, and dedication integrate to produce the solid foundation upon which Omni has built its reputation.

In reality, the Omni project team goes beyond our in-house staff to include consultants, client representatives, owners, and a construction manager, as required. The involvement of project team members in all phases and facets of a project allows us to combine broad experience and personal accountability. It is the mutual respect of each team member's skills and perspective that enables the design process to conclude with a successful project of which we all can be proud.

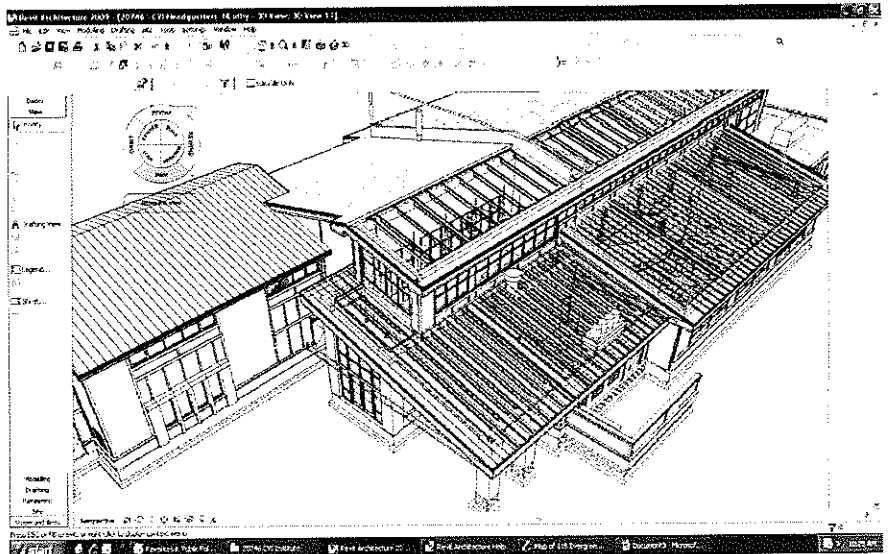
### **BIM: Building Information Modeling**

Omni is committed to continually upgrading existing technology and driving the evolution of design tools. This commitment springs from the firm belief that the responsible use of technology facilitates innovative design, results in economic benefits for our clients, and assists in efficient communication with clients and consultants.

Building Information Modeling (BIM) involves creating a building in the virtual world before constructing it in the "real" world and allows the design team to anticipate conflicts and objections before they arise. We have found that this eliminates many issues which could result in project change orders or Requests For Information from the contractor. Also, the model can be shared between all disciplines as the design progresses. This allows early input from all of the design professionals involved, resulting in efficient designs. With a virtual model of the building, clients can clearly see the design intent as the project progresses. Design options can be explored with greater ease than ever before. An accurate building model can also assist in such things as cost and quantities estimating, energy analysis and building management – to name just a few.



By constructing the building in the virtual world first, conflicts can be anticipated and averted.



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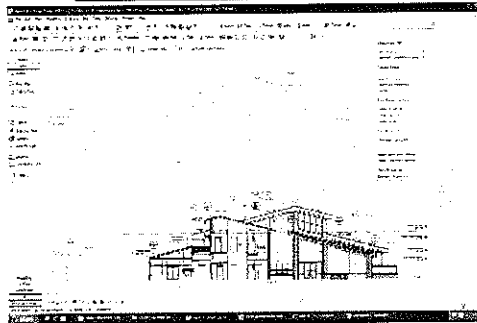
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## Project Team Qualifications

Obviously, using the latest computer software does not guarantee good design. Good design is built upon having a complete understanding of the client's needs and the knowledge & experience to create a space which addresses those needs in an elegant and practical manner. We see BIM as an advanced tool in making that goal a reality for each project we undertake.



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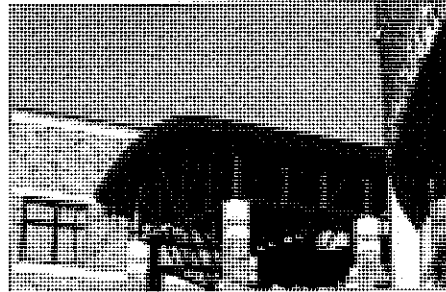
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### Primary Contact:

Richard T. Forren AIA, NCARB

Omni Associates - Architects, Inc  
1543 Fairmont Avenue, Suite 201  
Fairmont, WV 26554  
Voice: 304.367.1417  
Email: rforren@omniassociates.com



### Project Team Introduction

The project team that you select will be one that will work with you over the upcoming years. It is our endeavor to continue our relationship with the West Virginia Army National Guard and users. Our dedicated and experienced staff brings a unique level of ingenuity to every project. Omni Associates - Architects carefully selects its project team based on each member's ability to add directly-related experience, ensuring our ability to meet the specific challenges and goals of each client. Omni has created a team of professionals who provide services for the specific needs of this project.

It is these sensitivities that have dictated the creation of this team to include Omni Associates - Architects, Allegheny Design Services, Tower Engineering, and Capitol Engineering.

In order to guarantee a constant level of dedication and commitment, it is Omni's philosophy that a principal remains with the project from commencement to completion. Richard T. Forren AIA, NCARB, shall serve as principal in charge.

In the following sections, we have provided a considerable amount of information that demonstrates the qualifications, experience, and expertise of the team we have specifically chosen for the Buckhannon Readiness Center. We are confident that we can provide the close communication and superior services you require.

### Mylan Laboratories

Omni Associates is especially proud of its continuing 15-year working relationship with Mylan Laboratories, the nation's largest generic pharmaceutical manufacturer.



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## Key Consultants Overview

### Capitol Engineering, Inc.

Capitol Engineering, Inc will provide site and civil engineering consultation on this project. Capitol is both a veteran-owned and women-owned consulting engineering firm located in Charleston, minutes away from the West Virginia National Guard Joint Force Headquarters on Coonskin Drive. Capitol provides comprehensive engineering, design and construction services to meet your infrastructure needs. Capitol has a tremendous history of service to the West Virginia Guard and looks forward to building on that success.

### Tower Engineering, Inc.

Tower has been providing innovative mechanical and electrical engineering solutions and unparalleled client service since 1931. Through past experience, they have learned the importance of designing to allow adaptability for future growth and change. Their knowledge and design of special ventilation systems, code requirements, piping and hazardous materials handling are essential to our clients. The health and safety of the occupants of any facility depend upon the proper design of the mechanical and environmental control systems serving it.

Tower Engineering's highly-trained staff of project managers, designers, and technical support personnel utilizes state-of-the-art computer software programs for the design of lighting, electrical power and mechanical systems. Their experience includes numerous projects that include medium voltage distribution upgrades. Electrical power analysis capabilities include fault current, voltage drop and arc-flash studies. Lighting analysis includes point-by-point calculations, exterior lighting analysis, and life cycle cost comparisons. Mechanical analysis includes energy economy analysis, thermal storage analysis, heating and cooling load calculations, refrigerant piping design, water piping design, and ductwork design.

### Allegheny Design Services

Allegheny Design Services is a consulting engineering firm specializing in structural building design and building analysis. With over 25 years of experience, ADS provides all phases necessary for the successful completion of a building project from schematic design studies to construction administration. ADS currently utilizes the latest engineering design and drafting software for the development of project work. ADS consistently delivers projects up to \$25 million in construction value. Building systems delivered by ADS include structural steel, reinforced concrete, precast concrete, and structural timber.

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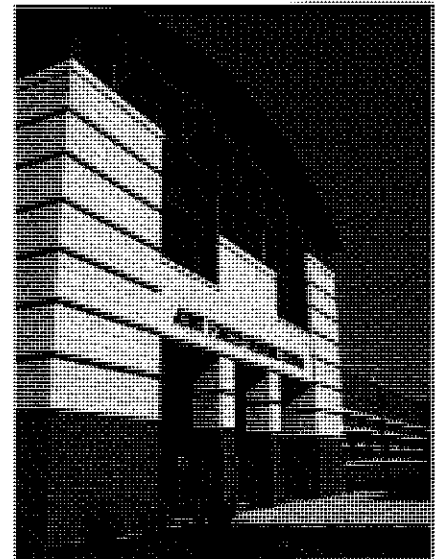
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West Fairmont Middle School:  
"The template for the twenty  
-first century school"  
Dr. James B. Phares  
Superintendent - Marion County, WV



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Omni Associates - Architects, Inc

WVARNG Buckhannon Readiness Center





## Qualified Personnel - Omni Associates

**Richard T. Forren AIA, NCARB**  
Project Architect

Richard T. Forren is a Principal and Project Architect in charge of design and construction for The Omni Associates - Architects since 1984. He received his Master of Architecture degree from Virginia Polytechnic Institute & State University in 1983 after previously receiving a Bachelor of Science Degree, Civil Engineering Technology in 1980 from Fairmont State College.

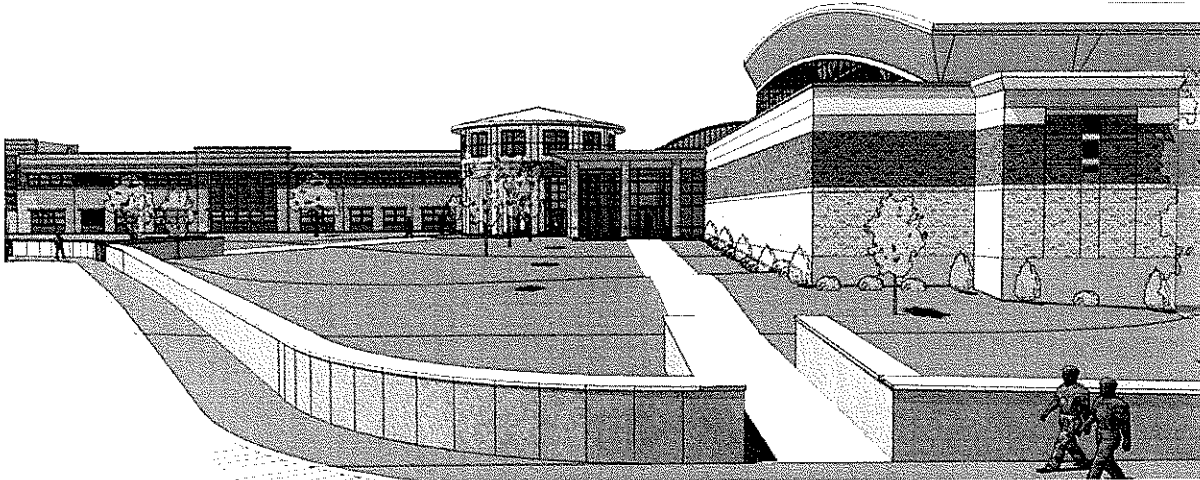
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As a Principal-in-Charge and Project Architect, Mr. Forren's primary responsibility is to develop the overall concept of design by performing technical tasks which include: Project space programming; Schematic layout of functional spaces; Aesthetic design and development; Concept and coordination of building systems such as mechanical, electrical, plumbing and fire protection; Preparation of bidding documents and material specifications; Project management and Construction administration. These tasks are performed for a wide range of commercial projects that include master planning, land development, building construction and tenant build-out. Project occupancy types include health care, business, recreational, educational, religious, municipal and military construction (MILCON) with single project construction budgets in excess of \$35 million.

Mr. Forren's public client list includes: West Virginia University, Fairmont State College, West Virginia High Technology Consortium Foundation, United States General Services Administration, West Virginia General Services Administration, City of Fairmont, City of Morgantown, City of Bridgeport and Marion County Board of Education. Most recently, Mr. Forren served as Project Architect for two WVARNG projects: a 130,000 sq. ft. (\$18 million) Maintenance Facility as well as a 78,000 sq. ft. (\$12 million) Readiness Center located in Eleanor, WV. He is presently serving as Project Architect for the WVARNG Fairmont Armed Forces Reserve Center.



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Currently Mr. Forren serves in the United States Army Reserves, as a Colonel he is currently assigned to the Fifth United States Army as the Army's Emergency Preparedness Liaison Officer (EPL) for West Virginia. This involves working with FEMA, The Office of Emergency Management and the Department of Homeland Security to assist in providing Department of Defense support in the event of a regional or national emergency. Throughout his career in the Army Reserves, while serving with the Corps of Engineers, he has been directly involved with the design & construction of a wide variety of military humanitarian projects in Korea, Germany, El Salvador, and Panama.

Mr. Forren is a long-time member of the American Institute of Architects (AIA) and the West Virginia Society of the American Institute of Architects. He is certified by the National Council of Architectural Registration Boards, NCARB Certified #53567, which through reciprocity allows nationwide registration and licensing.

Mr. Forren has served as an instructor of Architecture at Fairmont State College, Fairmont, West Virginia, and he currently serves on the Fairmont State University Faculty Advisory Committees for both Civil Engineering and Architectural Engineering. Mr. Forren also currently serves as a member of the Architectural Review Committee for the I-79 Technology Park and as a member of the Bridgeport City Planning Commission, where he has been the past President of the Commission and has served since 1988.

**David E. Brown**  
Project Manager

David Brown is a skilled and knowledgeable Project Manager. Originally from Fairmont, WV, Mr. Brown has a background in construction from the perspective of both a laborer and an owner. He owned a small construction business and cabinet shop and worked in these fields for an 18-year period before returning to college. Since earning an Associate degree in Architectural Technology from Fairmont State College, he has applied his knowledge and experience to the building design process and project management.

Mr. Brown has been involved in many large-scale projects, including new construction and additions, in the areas of health care, public education, and government buildings. His recent experience has included work on a National Guard complex in Eleanor, WV. This project was comprised of a 130,000 sq. ft. (\$18 million) Maintenance Facility as well as a 78,000 sq. ft. (\$12 million) Readiness Center. His duties included the production and coordination of drawings, as well as the review of shop drawings, pay-application processing, requests for information, proposal requests, and writing non-compliance reports. Since 1998, Mr. Brown has established and sustained a solid working relationship with the West



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Virginia Army National Guard construction administration personnel. He has been involved with the Eleanor Maintenance and Readiness projects from their inception through the final construction administration phase. He is also presently serving as Project Manager for the new Fairmont Armed Forces Reserve Center.

## Qualified Personnel – Key Consultants

### Capitol Engineering, Inc.

#### **Robert M. Fuller, PE**

Project Manager – Civil Engineering

Mr. Fuller, serving as Project Manager for Capitol Engineering, has surpassed over fifteen (15) years of project experience with site investigation, planning, design and contract administration services on military, site development and mine reclamation projects. Mr. Fuller has been fully responsible technically, managerially and administratively for the planning, investigation, design and contract document preparation for over fifty (50) projects in the State of West Virginia. Mr. Fuller has served as Associate Professor of Civil Engineering Technology at West Virginia University Institute of Technology on a full-time, part-time, and adjunct basis.

Mr. Fuller holds an M.S. Engineering degree from Marshall University Graduate College, 1997 as well as a B.S. Engineering Technology degree from West Virginia Institute of Technology, 1989.

Recent West Virginia Army National Guard experience includes Fairmont Armed Forces Reserve Center, Glen Jean Armed Forces Reserve Center, Summersville Readiness Center, and the Lewisburg Readiness Center

### Tower Engineering, Inc.

#### **James N. Kosinski, P.E.**

Project Manager – MEP HVAC Engineering

Mr. Kosinski has eighteen (18) years of experience as a mechanical engineer, primarily responsible for the design of HVAC systems and their components for hospitals, schools, universities, laboratories, office buildings, and commercial and light industrial facilities. He has experience with the design of numerous types of HVAC systems, including constant and variable air volume air handling, geothermal heat pump and exhaust systems, chilled water and hot water, electric/electronic, pneumatic and DDC control systems. Mr. Kosinski's design responsibilities include load calculations, equipment selection, system layout, project specifications, cost estimates, direction of project drafting efforts, coordination with other engineering disciplines, and construction administration. Additional responsibilities include system analysis and energy studies, client contact, and project management and scheduling.

Mr. Kosinski has performed energy conservation analysis, evaluated HVAC system performance, and justified the installation of DDC control systems and other energy saving measures.

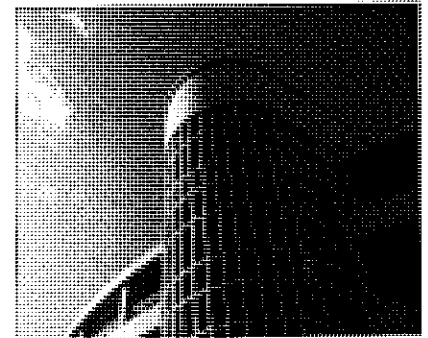
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*"...this (West Virginia High Technology Consortium) is indeed an important economic development project for West Virginia, and I wish to thank Omni Associates for the predominant role that they played in making this endeavor, as well as many other significant projects across the state, a reality."*

**Robert C. Byrd**  
United States Senate



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Mr. Kosinski holds a Bachelor Architectural Engineering from Penn State University. He is licensed to practice engineering in the states of West Virginia, Pennsylvania, and Michigan. He is a member of the American Society of Heating, Refrigeration & Air Conditioning, Engineers (ASHRAE) and the Association of Energy Engineers.

**Allegheny Design Services**

**Mr. David R. Simpson P.E., SECB, MBA**  
Project Manager – Structural Engineering

Mr. Simpson established Allegheny Design Services in 2002 as a result of a need in North Central West Virginia for reliable structural engineering services. Mr. Simpson is responsible for project management and design at Allegheny Design Services. His experience includes over 24 years in structural design and project management for industrial, commercial, institutional, and nuclear/chemical facilities utilizing steel, concrete, masonry, and wood. Past accomplishments include design and construction administration of health care facilities, hotels, schools, shopping centers, aircraft hangars, numerous retail facilities, and numerous forensic engineering assignments.

Mr. Simpson holds a B.S. Civil Engineering degree from West Virginia Institute of Technology, a Masters of Business Administration from West Virginia University, and an Architectural Technology degree from West Virginia State College. Mr. Simpson is licensed through the Structural Engineering Certification Board in the states of West Virginia, Pennsylvania, Maryland, Virginia, and the District of Columbia.

Mr. Simpson is a member of the following professional organizations: American Society of Civil Engineers, Structural Engineering Institute, American Concrete Institute, American Institute of Architects – West Virginia Chapter, American Institute of Steel Construction, Inc., and the American Iron and Steel Institute.

**Specific Design Experience - Key Consultants**

- Fairmont Armed Forces Reserve Center, WV (*Capitol, Tower, Allegheny*)
- Ripley Armed Forces Reserve Center, WV (*Capitol*)
- Glen Jean Armed Forces Complex, WV (*Capitol*)
- Summersville Readiness Center, WV (*Capitol*)
- Lewisburg Readiness Center, WV (*Capitol*)
- AASF#1 Apron Expansion/Rehabilitation and Taxiway Replacement, Parkersburg, WV (*Capitol*)
- Dawson Army Airfield Runway Extension, Kingwood, WV (*Capitol*)
- Pennsylvania Army National Guard Readiness Center, Connellsville, PA (*Tower*)
- Stryker Brigade Combat Team Readiness Center & OMS, Cambridge Springs, PA (*Tower*)
- U.S. Army Corps of Engineers Lab Ventilation, Pittsburgh, PA (*Tower*)
- U.S. Army Reserve Center Readiness Center and Organizational Maintenance Shop Building, Jane Lew, WV (*Tower*)

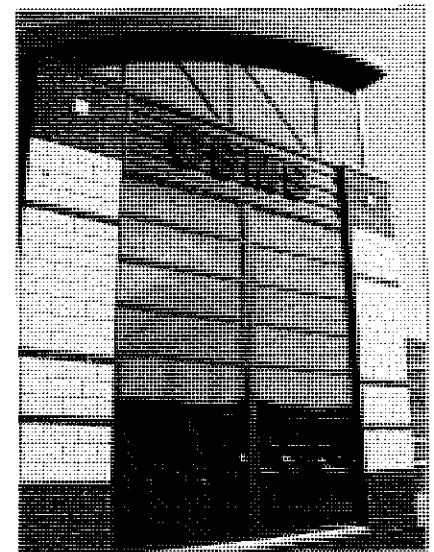
West Virginia  
Army National Guard

RFQ Number:  
DEFK10019

Buyer:  
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Opening Date:  
06/16/2010

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ARCHITECTS



## Specific Design Experience: Omni Associates—Architects

**Eleanor Readiness Center**  
West Virginia Army National Guard  
Eleanor, West Virginia  
78,000 Square Feet  
\$ 12 Million

West Virginia  
Army National Guard

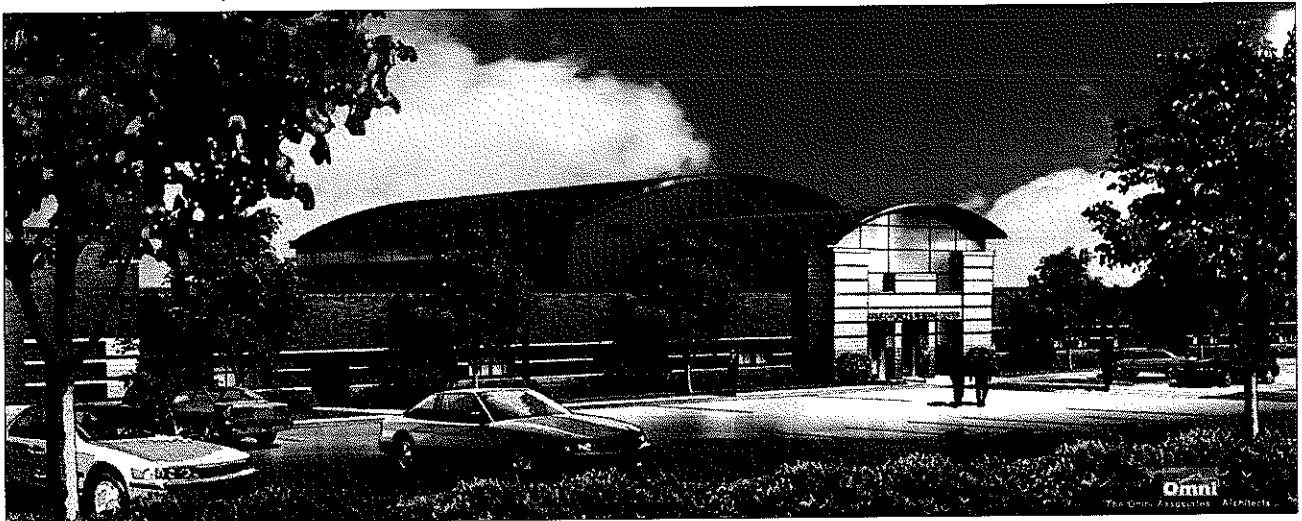
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Opening Date:  
06/16/2010

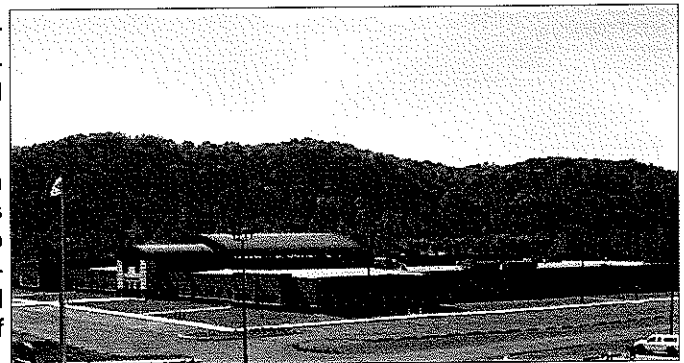
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The new Readiness Facility is a single-story, brick masonry and steel structure enclosing approximately 78,000 net square feet. The building is located adjacent to the new Maintenance Facility on the site, with the main entrance facing east toward the main access to the site. The orientation of the building takes advantage of views of the wetland area and the Kanawha River. The Readiness Center as a facility houses units of the state Army National Guard and one unit of the Navy.



The aesthetics of the new structure have a similar character and appearance as the Maintenance Facility, incorporating banding of a contrasting color, barrel-vaulted roofing, and similar doors and windows.

The plan configuration is a result of meetings with each of the units and commanders, and consolidates areas under the responsibility of individual units to minimize travel. The separation of public versus unit-specific spaces is dictated by the need for logical and efficient circulation as well as the direct relationship of spaces within those areas.



The relationship of the unit office areas to the unit storage areas is critical to the efficient workflow of the individual units. The unit storage areas are located adjacent to the loading dock at the rear of the building in order to provide access to military vehicles.



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**WVARNG Buckhannon Readiness Center**

WVARNG: Page 10



The Maintenance Work Bays and AFIST bay are located at the rear of the building for accessibility of military vehicles, as well as shielding the function of the areas from the entrance and the public. The AFIST bay is located adjacent to the Assembly Hall for the purpose of large group instruction within the hall and individual instruction within the bay area

The location of the Assembly Hall is central to all spaces and adjacent to the main entrance due to its use for public and military functions. The Hall is utilized by the military for drill training and dining, and by the public for gatherings such as banquets and dances. The kitchen is located adjacent to the Assembly Hall to expedite meals to both civilians and the military.

A single-story structure of this size requires a lot of area dedicated to circulation. However, whenever possible, large open areas such as the Assembly Hall were utilized for circulation.

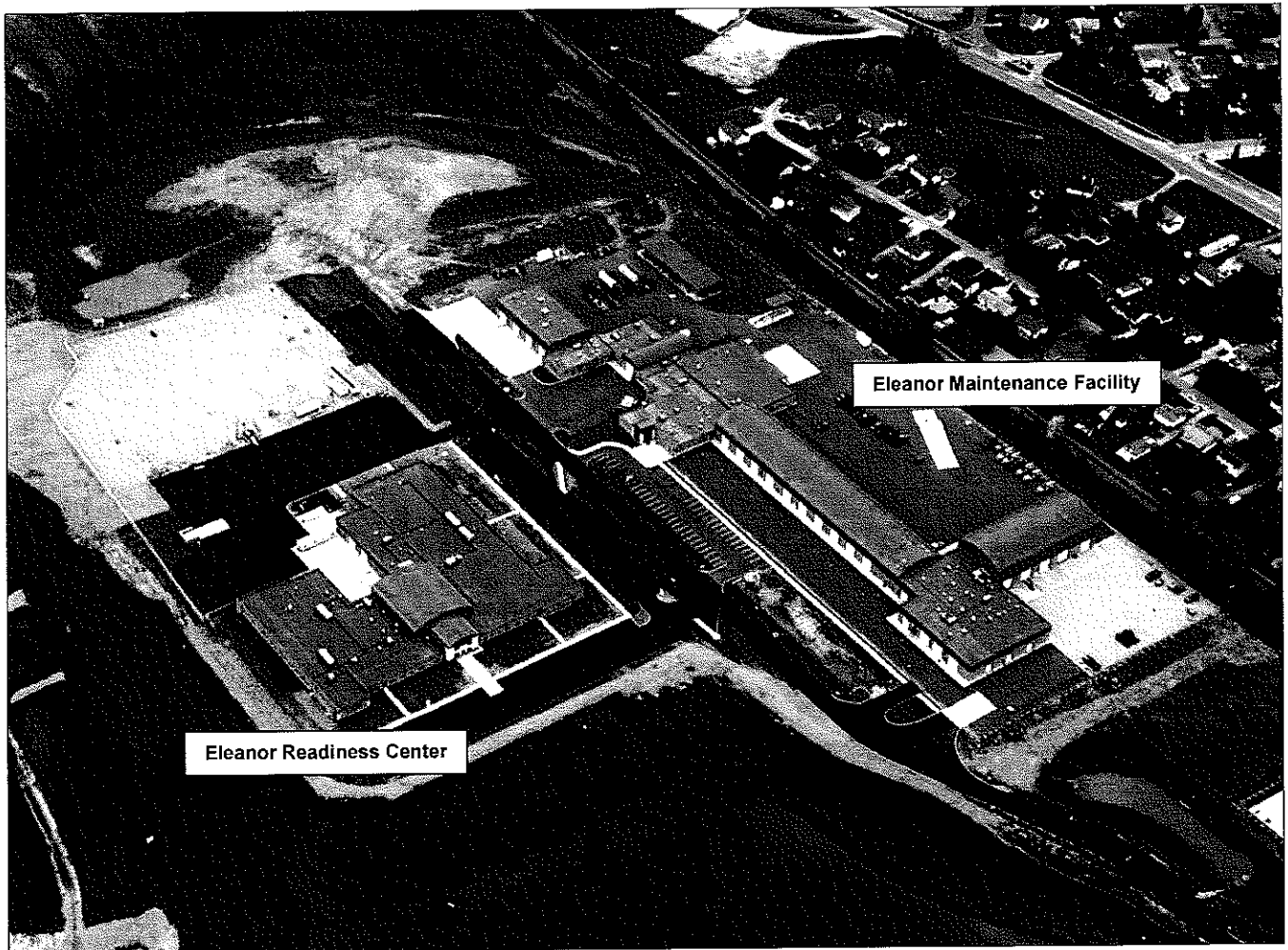
West Virginia  
Army National Guard

RFQ Number:  
DEFK10019

Buyer:  
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Opening Date:  
06/16/2010

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Eleanor Maintenance Facility

Eleanor Readiness Center



**Eleanor Maintenance Facility**  
West Virginia Army National Guard  
Eleanor, West Virginia  
130,000 Square Feet  
\$ 18 Million

West Virginia  
Army National Guard

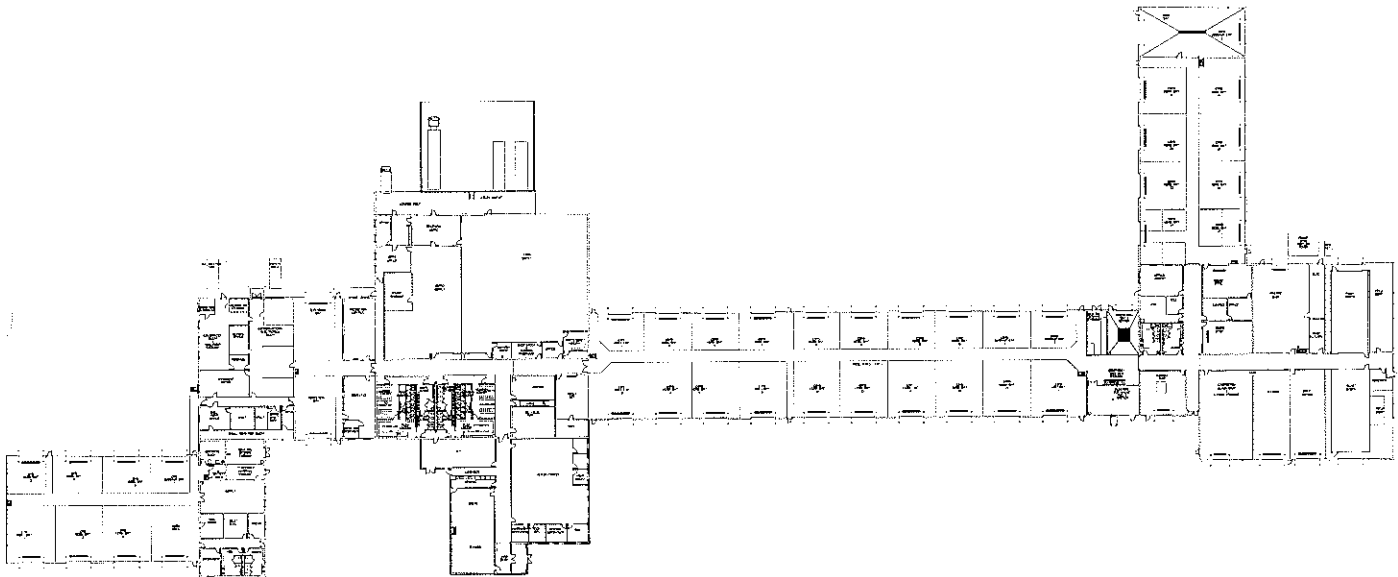
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06/16/2010

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The new Eleanor Maintenance Complex, in Eleanor, WV, is a 130,000 square foot state-of-the-art repair and maintenance facility for the West Virginia Army National Guard (WVARNG). This specially designed Army "Combined Logistic Support Facility" will house the Combined Support Maintenance Shop (CSMS), an Organizational Maintenance Shop (OMS) and United States Property and Fiscal Office (USPFO) parts storage warehouse.



The design of the facility is based upon the functional concept of a straightforward course in and around the facility. This focuses on a logical and efficient continuity of work for the maintenance and repair of vehicles as well as the progression of component parts from delivery to installation. This flow also required controlling the movement of vehicles themselves as all vehicles arriving and leaving the complex are required to undergo pre- and post-inspections.

The facility will provide a full range of maintenance support for all WVARNG military vehicles throughout the state. It includes 28 maintenance work bays with overhead bridge cranes, an engine rebuild shop, a body shop with blast and paint booths, a carpentry shop, a machine shop, a canvas shop, a small arms repair shop and an electrical / communications repair shop. The facility also has specialized testing capabilities in the form of an engine and transmission dynamometer.

These capabilities truly make the Eleanor Maintenance Complex a state-of-the-art facility for the West Virginia Army National Guard.



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**WVARNG Buckhannon Readiness Center**

WVARNG: Page 12



**Fairmont Readiness Center and Civic Center**

West Virginia Army National Guard  
Fairmont West Virginia  
99,800 Square Feet  
\$ 26 Million

West Virginia  
Army National Guard

RFQ Number:  
DEFK10019

Buyer:  
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Opening Date:  
06/16/2010

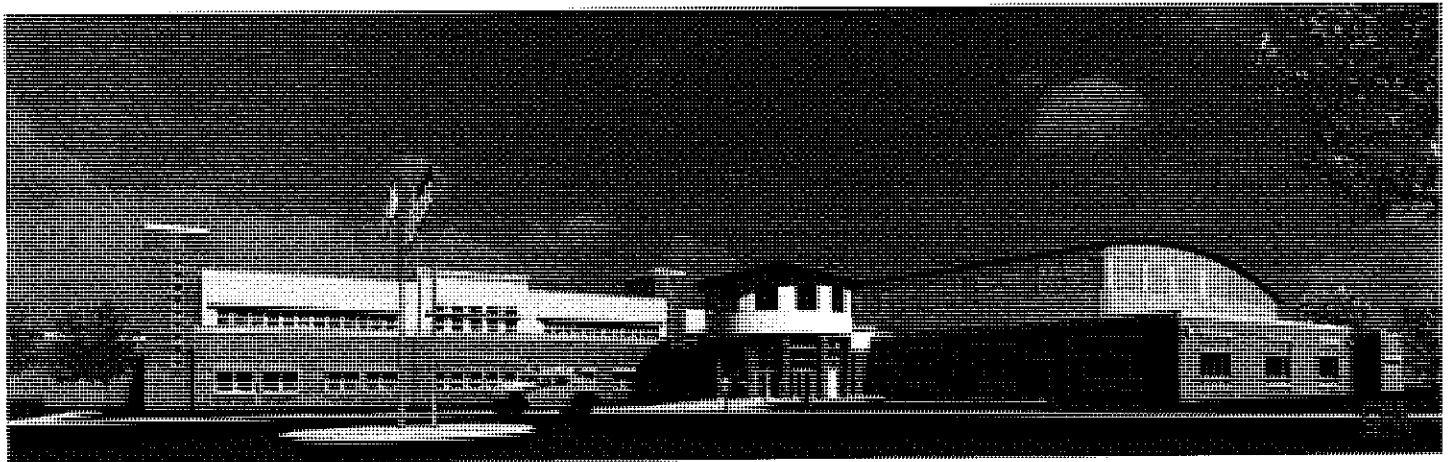
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The specially designed AFRC is permanent masonry type construction with concrete floors, and mechanical and electrical equipments with emergency power generator backup This 150 member training facility includes administrative, educational, assembly, library, learning center, vault, weapons simulator and physical fitness areas for one each WVARNG and USAR units. The maintenance shop will provide work bays and maintenance administrative support. The project will also provide adequate parking space for all military and privately owned vehicles. This project has been coordinated with the installation physical security plan, and all physical security measures are included. All required antiterrorism protection measures are included. Sustainable principles will be integrated into the design, development, and construction of the project in accordance with Executive Order 13123.

Supporting facilities will include weapons cleaning, maintenance, issue, turn-in sheds, access roads, security fencing and dark motor pool lighting, vehicle wash system and pump house, fuel storage and dispensing systems, loading ramp, flammable materials storage building, controlled waste handling facility, and sidewalks. Extension of gas, electric, sewer, water and communication utilities to the building site is included Physical security measures include maximum feasible standoff distance from roads, parking areas, and vehicle unloading areas, berms, heavy landscaping and bollards to prevent access when standoff distance cannot be maintained Cost effective energy conserving features are incorporated into design.

*"You are truly the most responsive, friendly, and personable firm I have come across recently - many thanks, and kudos to you for establishing such a great dynamic within your work environment."*

**Katie Leavy**  
**HGTV (Home & Garden TV) TV**  
**Personality**  
**Capital Design**



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**WVARNG Buckhannon Readiness Center**

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West Virginia  
Army National Guard



West Virginia Army National Guard  
**CONSTRUCTION & FACILITIES MANAGEMENT OFFICE**  
1703 Coonskin Drive  
Charleston, West Virginia, 25311-1085  
(P) 304-561-6446 (F) 304-561-6458 (DSN) 623-6446

RFQ Number:  
DEFK10019

Buyer:  
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Opening Date:  
06/16/2010

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1:30 PM

10 April 2000

The OMNI Associates Architects  
1543 Fairmont Avenue, Suite 201  
Fairmont, West Virginia 26554


Attn: Mr Richard Forren A I A

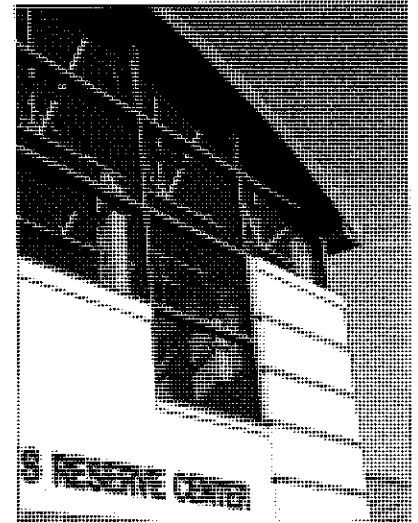
Mr. Forren

The West Virginia Army National Guard Construction and Facilities Management Office, has been working with your firm, and related consultants, for little over two years. During that time OMNI has been most receptive and responsive to the difficult design processes encountered for the Eleanor Complex. Your availability and professional administration have been a decided benefit to the projects. Considering both represent over 240,000 square feet and approximately \$30 million dollars, OMNI and its consultants have performed above our expectations.

It has been a pleasure working with you on these projects, and we look forward to their completion with your firm.

Should OMNI Associates wish to provide professional services for our many future projects, the C&FMO would not hesitate in working with you again.

  
Melvin L. Burch  
COL, EN, WV-ARNG  
Construction and Facilities Management Officer



**Administration**  
COL Melvin L. Burch  
COL Donald R. Beightol, R.P.F.  
Mr. Samuel W. Peal  
Ms. Nancy Casto  
Ms. Charis Ellis

**Planning & Construction**  
CPT Garrett B. Cottrill, P.E.  
Mr. Todd E. Tingler, A.I.A.  
Mrs. Debbie E. Saunders  
2LT Jennifer E. Pingley

**Environmental**  
LTC Gary A. Blackhurst  
Mr. Philip P. Emmerth  
Mrs. Rita L. Meneses  
Mr. David P. Shafer

WVARNG Buckhannon Readiness Center



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WVARNG: Page 14



MARY L. HATHFIELD, DELEGATE, CHAIRMAN

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CONNIE MACK, FLORIDA	BARBARA A. MIKULSKI, MARYLAND
CONRAD BURNS, MONTANA	HARRY REID, NEVADA
RICHARD C. SHELBY, ALABAMA	J. ROBERT KENNEDY, NEBRASKA
JAMES M. JOHNSON, VERMONT	HERB KOHL, WISCONSIN
JUDITH GAI DC, NEW HAMPSHIRE	PATTY MURRAY, WASHINGTON
ROBERT F. BENNETT, UTAH	

J. KEITH KENNEDY, STAFF DIRECTOR  
JAMES H. ENGLISH, MINORITY STAFF DIRECTOR

**United States Senate**  
COMMITTEE ON APPROPRIATIONS  
WASHINGTON, DC 20510-6025

September 23, 1996

Mr. Richard T. Forren  
Omni Associates  
1543 Fairmont Avenue  
Fairmont, West Virginia 26554

Dear Mr. Forren:

It was a pleasure to participate in the dedication of the Alan B. Mollohan Innovation Center that was held this past weekend.

This is indeed an important economic development project for West Virginia, and I wish to thank Omni Associates for the predominant role that they played in making this endeavor, as well as many other significant projects across the state, a reality. Keep up the good work.

With warm regards, I am

Sincerely yours,

*Robert C. Byrd*  
Robert C. Byrd

RCB:smb

West Virginia  
Army National Guard

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*"In appreciation of all of your hard work, dedication, and technical support to the Eleanor Maintenance Complex, West Virginia Army National Guard. Your expertise has helped create one of the finest Maintenance Shops in the United States."*

Robert D. Davis, CPT, OD, WVARNG  
CSMS Superintendent

Warren T. Huxley, LTC, EN, WVARNG  
Surface Maintenance Manager



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WVARNG Buckhannon Readiness Center



## References

We have included a list of references in the following Division II titled Omni Associates - Architects We encourage you to contact them at your convenience We are also pleased to include the following as additional contacts with whom we have worked closely on previous West Virginia Army National Guard projects

**BG Melvin L. Burch, EN, WVARNG**  
**West Virginia Army National Guard**  
Construction & Facilities Management Office  
1703 Coonskin Drive  
Charleston, WV 25311  
**304.561.6365**

**LTC Garrett B. Cottrell, PE**  
**West Virginia Army National Guard**  
Construction & Facilities Management Office  
1703 Coonskin Drive  
Charleston, WV 25311  
**304.561.6452**

**CPT Rocky Hodges, Chief, Design & Construction**  
**West Virginia Army National Guard**  
Construction & Facilities Management Office  
1703 Coonskin Drive  
Charleston, WV 25311  
**304.561.6452**

**Dan Clevenger, EIT, Project Manager**  
**West Virginia Army National Guard**  
Construction & Facilities Management Office  
1703 Coonskin Drive  
Charleston, WV 25311  
**304.561.6446**

West Virginia  
Army National Guard

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# Firm Overview

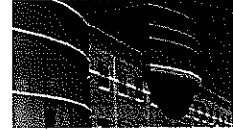
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Omni Associates - Architects

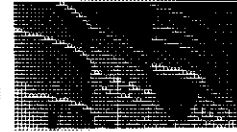
## Firm Profile

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Omni Associates - Architects

## Firm Profile



### General

OMNI ASSOCIATES - ARCHITECTS is a distinguished architectural firm located in Fairmont, West Virginia. Our firm's client relationship is built upon mutual respect and effective communication, which enables our staff to provide outstanding architectural/engineering design services for our clients

Since its inception in 1980, OMNI has earned recognition as a specialist in the programming, planning, and design of various facilities, including **office buildings, recreational facilities, education facilities, religious facilities, health care, and multipurpose facilities.** Our firm has over 25 years of experience in the design of various facilities as OMNI, and our principals bring additional experience from other firms

Omni's professional staff is comprised of dedicated, experienced, and creative individuals. Our skilled team includes **6 registered architects**, intern architects, computer-aided design specialists, and knowledgeable administrative support staff. Their quality, expertise, and dedication integrate to produce the solid foundation upon which Omni has built its reputation

### Organization

OMNI organizes its staff into several teams or "studios." A specific project team is established for each commission. Studio resources are combined for larger projects. Younger staff members bring a fresh perspective and gain valuable knowledge under the guidance of more experienced staff. Utilizing this approach, we are able to provide the human resources required for all types of projects, including large and complex projects.

The project team, including the principal-in-charge, actively participates in the project from start to finish. **The same professionals who develop an understanding of your needs in programming generate design alternatives, oversee the production of construction documents, and implement the concepts during construction.** The consistency afforded by this approach is a benefit to OMNI and you

In reality, the OMNI project team goes beyond our in-house staff. It includes consultants, client representatives, owners, and a construction manager, as required. It is the mutual respect of each team member's skills and perspectives that enables the design process to conclude with a successful project of which we all can be proud



### Omni Associates - Architects, Inc.

1543 Fairmont Avenue  
Suite 201  
Fairmont, WV 26554  
304.367.1417 (voice)  
304.367.1418 (fax)  
info@omniassociates.com  
www.omniassociates.com

### OWNERSHIP

Professional Corporation

### HISTORY

Established in 1980

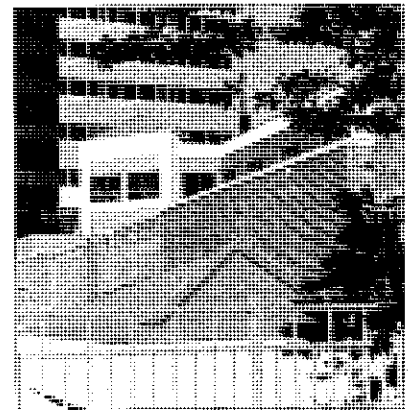
### SENIOR PERSONNEL

Stephen A. Barnum AIA NCARB  
Senior Principal

Richard T. Forren AIA NCARB  
Principal

John R. Sausen, AIA NCARB  
Principal

David A. Stephenson  
Principal



## Firm Profile

### Overview of Services

Omni Associates - Architects provides an array of in-depth professional architectural services. We are eager to discuss in greater detail our experience and expertise in each. These are a few areas of professional services we offer.

### Design-Bid-Build Construction Method

Omni has performed private and public projects of every building type using this traditional method of project delivery. We organize your entire project in advance of bidding and work extensively with you to achieve alternatives to program goals. Construction documents are prepared and bid to multiple general contractors to achieve competitive pricing. Omni has successfully negotiated with contractors to maintain changes and costs to a minimum and still achieve the initial time schedule.

### Design-Build Construction Method

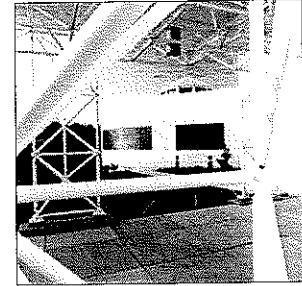
Omni has worked on "fast-track" and "multiple-prime" contract projects to achieve an accelerated building construction time schedule. We prepare construction drawings in stages and bid these "parts" of the total building program so construction can be ongoing as the next phase is programmed and designed. We have worked with General Contractors, Construction Managers and multiple prime subcontractors to successfully complete this type of project delivery.

### Facility Management Services

Omni has completed several feasibility studies on many building types to allow you to see the extent of multiple options for your project in terms of design alternatives, cost impact, life cycle expenses and market studies. Omni helps you prepare program information to assist you in determining the priorities for your project. We can research your project for code compliance implications or assess your building for the Americans with Disabilities Act.

### Construction Administration

Omni has worked on projects for only the construction phase of the total building life. This would include projects designed by another firm who needs local supervision or a "pre-designed" project from a national restaurant or store, which requires local implementation. Omni has also performed bank or financing inspections to determine the completion status of the project for periodic applications for payment.



### Omni Associates - Architects, Inc.

Conceptual Design & Planning

Master Planning

Design Development

Construction Document Development

Design-Bid-Build Construction Method

Design-Build Construction Method

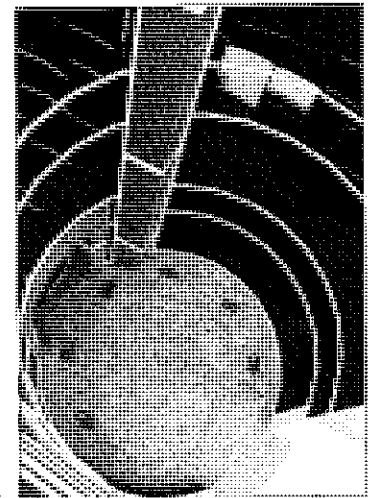
Facility Management Services

Bidding & Negotiating

Construction Administration

Feasibility Studies

Legal Consultation



## Firm Profile

### Technology

Omni is committed to continually upgrading existing technology and driving the evolution of design tools. This commitment springs from the firm belief that **the responsible use of technology facilitates innovative design, results in economic benefits for our clients, and assists in efficient communication** with clients and consultants.

Building Information Modeling (BIM) involves creating a building in the virtual world before constructing it in the "real" world and allows the design team to anticipate conflicts and objections before they arise. We have found that this eliminates many issues which could result in project change orders or Requests For Information from the contractor. Also, the model can be shared between all disciplines as the design progresses. This allows early input from all of the design professionals involved, resulting in efficient designs. With a virtual model of the building, clients can clearly see the design intent as the project progresses. Design options can be explored with greater ease than ever before. An accurate building model can also assist in such things as cost and quantities estimating, energy analysis and building management – to name just a few.

Obviously, using the latest computer software does not guarantee good design. Good design is built upon having a complete understanding of the client's needs and the knowledge & experience to create a space which addresses those needs in an elegant and practical manner. We see BIM as an advanced tool in making that goal a reality for each project that we undertake.

### Commitment to Excellence

OMNI is committed to providing high quality work in all that we do. Our excellent reputation and superior work product are a direct result of mutual respect and effective communication with our clients and consultants, enabling our staff to provide outstanding architectural and engineering design services for our clients.

Our approach to design has allowed us to avoid the confines of specialization and afforded us the opportunity to create a diverse body of work. **Each project is a unique undertaking that begins with analyzing the needs and desires of the client** and interpreting them into a distinctive design that meets specific needs and exceeds desires.



### Omni Associates - Architects, Inc.

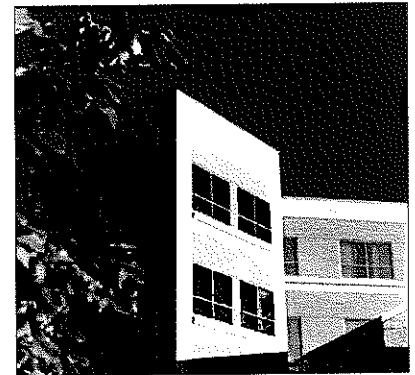
Omni Associates has successful project experience throughout the East Coast of the United States including

New York  
Ohio  
Pennsylvania  
West Virginia  
Kentucky  
Maryland  
North Carolina  
South Carolina

Member of The American Institute of Architects

Member of The West Virginia High Technology Consortium

Member of the Marion County Chamber of Commerce





## Firm Profile

### The Design Team

Omni Associates - Architects firmly believes that the best gauge in determining our performance and abilities is the quality of the personnel of which we are comprised. It is without question that our professional staff consists of dedicated, experienced, and creative personnel to meet and exceed your architectural needs.

Throughout our years of experience, we have worked with a variety of consultants specializing in structural engineering, civil engineering, mechanical and electrical engineering, and other disciplines as each project dictated. The benefit to you is that you can be assured that the consultants we select for your project are selected for their particular and relevant expertise as well as their superior work ethic.

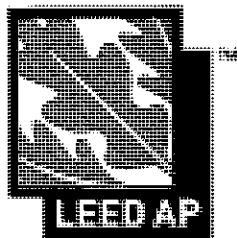
In short, we carefully staff the design team, including in-house professionals and outside consultants, with the type of personnel we would want working for us to work for you!

The following "Architectural Team Résumé", preceded by our firm's principals' résumés, briefly depicts qualities, areas of expertise, project experience, and personal characteristics that make up our design team.

### LEED™ (Leadership in Energy and Environmental Design)



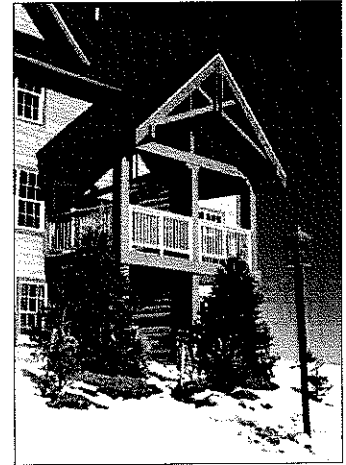
Omni Associates is committed to incorporating "green" building practices and sustainable resources into our designs. We believe that environmentally responsible design, construction, and facility operation is an invaluable benefit not only to our natural environment, but to the client and building owner as well. This belief is leading our architects and staff members to take their commitment one step further by pursuing LEED Accreditation.



The Omni organization currently includes the following LEED™ Accredited Professionals:

John R. Sausen AIA, NCARB  
Principal and Project Architect

Jaime L. Ryan  
Intern Architect



### Vision Statement

*Omni Associates' vision and goal is to offer our clients and their communities an environment which is a reflection of the client's goals, meet the highest standards of the construction industry and to be sensitive towards the unique nature of the site ..*



"An organization's participation in the voluntary and technically rigorous LEED process demonstrates leadership, innovation and environmental stewardship."

~ U.S. Green Building Council



## Architectural Illustrations & 3D Modeling

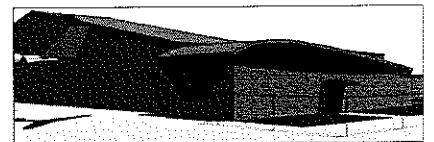
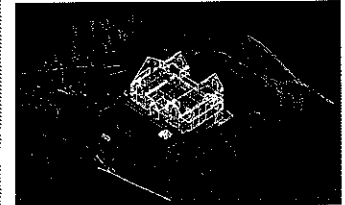


### Computer-Generated Architectural Renderings

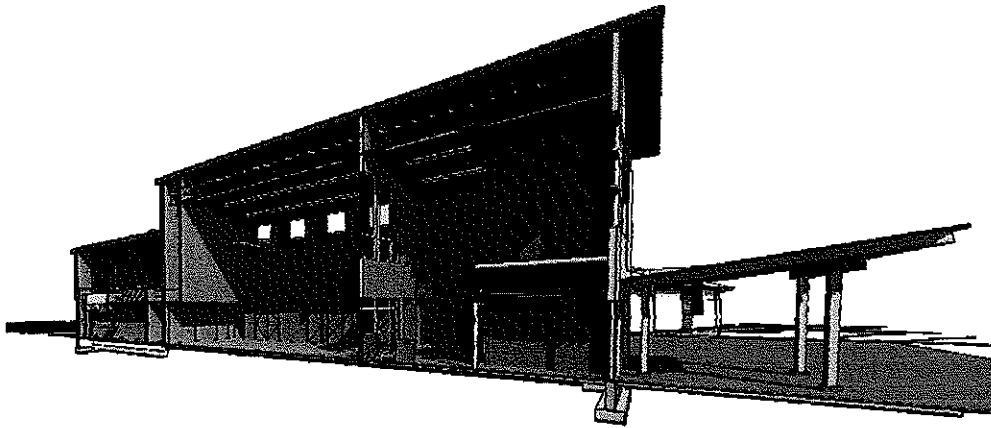
Omni's computer rendering capabilities range from photo retouching, to simple 3D massing and studies, to 3D modeling in CAD from which a selected view is moved through a number of different programs and processes to result in a final finished rendering. We can produce a rendering from simple sketches or from plans and elevations. Omni has also produced conceptual illustrations from verbal ideas/instructions, sometimes adding our own design input and problem-solving during the process to improve aesthetics and reach a final image for presentation to a client or the media.

### Before & After Photo Renderings

One of the very first questions our clients ask is, "What is it going to look like?" Omni can take a high resolution digital photograph of an existing condition and show what a new structure or modification would look like. This process eliminates the need for traditional models that are often expensive and time consuming to create. All textures, colors and lighting effects are applied to the model and it is positioned to match the perspective of the site photo. To give it an authentic feel, we add landscaping, people, cars, and any other necessary features and then combine the photograph and model to create a very realistic rendering.



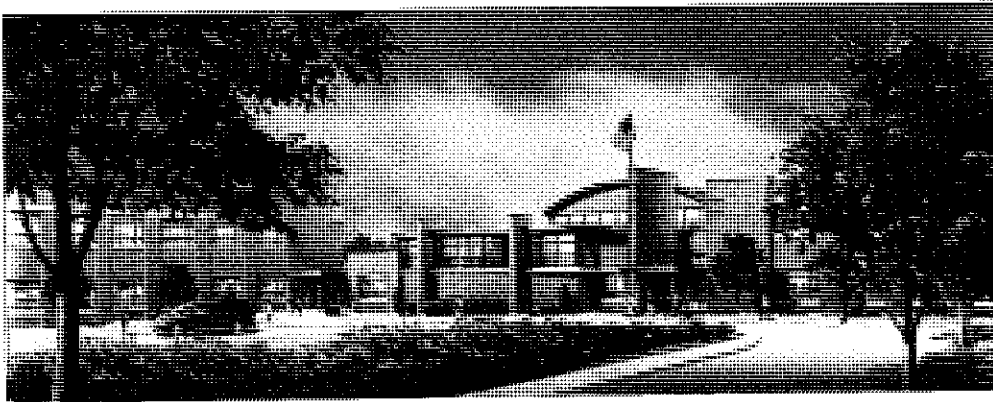
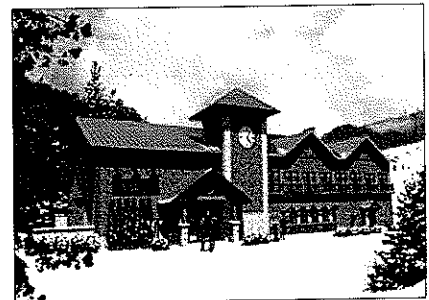
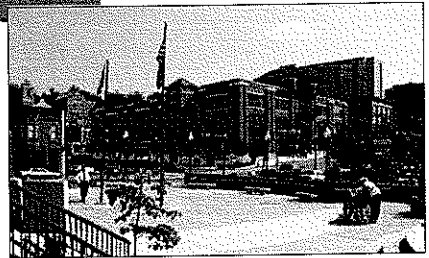
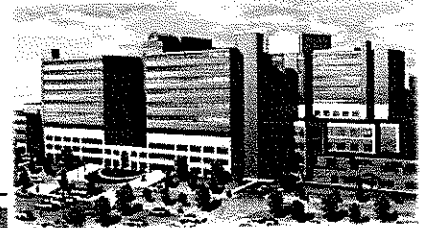
# Architectural Illustrations & 3D Modeling



## Virtual Models

With the aid of state-of-the-art software, Omni is able to create "virtual reality" models that enable our clientele to "virtually" walk through or fly by a site or building

Omni's creative staff can generate these innovative methods quickly and efficiently, ultimately resulting in a cost savings to our clients



## Professional Staff

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Omni Associates - Architects

## Resume

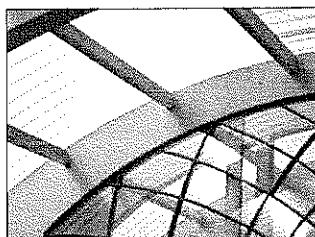
### Stephen A. Barnum AIA, NCARB



**PROJECT ASSIGNMENT**  
Supervising Principal  
Coordinating Architect

#### EDUCATION

Mr Barnum received his Bachelor of Architecture from Ohio University in 1971



#### REGISTRATION

NCARB Certified #21583  
States of West Virginia (#1663), New York, Pennsylvania North Carolina, Ohio, South Carolina, & Virginia  
Member of The American Institute of Architects  
Member of West Virginia Board of Architects



#### GENERAL EXPERIENCE

- Senior Principal in charge of Design and Construction for Omni Associates - Architects since 1980, Mr Barnum is highly regarded as one of West Virginia's leading architects His design expertise and construction experience serve as examples of the proficiency and professionalism that he embodies
- Mr. Barnum served as Project Architect with Robert J Bennett & Associates in Morgantown, West Virginia from 1975 to 1980. He was responsible for projects up to \$15,000,000.00
- Mr. Barnum has complete five advanced design programs at Harvard University including Hotel Design, Golf Course Clubhouse Design, Mixed Use Design, and Design Build Construction Alternatives
- Mr Barnum has served as the project architect for several new Golf Course Clubhouses at courses designed by Pete Dye, Gary Player and Arnold Palmer



#### RELATED EXPERIENCE

- Instructor of Architecture at Fairmont State College, Fairmont, West Virginia from 1980 to 1981. Responsible for instruction of students in architectural construction and design.
- Mr Barnum was appointed by the Governor of West Virginia to serve as a member of The West Virginia Board of Architects January 2007



#### Select Project Experience for Mr. Barnum

**Suncrest Towne Centre**

**Suncrest Village Luxury Condominiums**  
Morgantown WV

#### Hotel Design

Volcano Island Resort Indoor Water Park & Resort - Fairmont, WV  
Wingate Inn- Bridgeport, WV  
Wingate Inn -Erie, Pa.  
Wingate Inn - Rome, NY  
Fairfield Inn - Granville, WV

#### Snowshoe Mountain Resort

Snowshoe WV  
Master Planning  
Rimfire Lodge  
Hawthorn Valley Golf Clubhouse  
Camp #4 Condominiums  
Conference Center

**Pete Dye Golf Club Clubhouse**  
Bridgeport WV

**Stonewall Resort Arnold Palmer Clubhouse**  
Stonewall Resort WV

#### Fairmont State University

Education and Health Careers Facility  
Hardway Hall Renovations  
Colebank Hall Renovations  
Jaynes Hall Renovations

#### 911 Facility

Monongalia County, WV  
Lincoln County WV

**Robert C. Byrd National Technology Transfer Center for NASA**  
Wheeling WV

**Victory Christian Church**  
Charlotte North Carolina



## Resume

### Richard T. Forren AIA, NCARB

PROJECT ASSIGNMENT  
Principal  
Project Architect



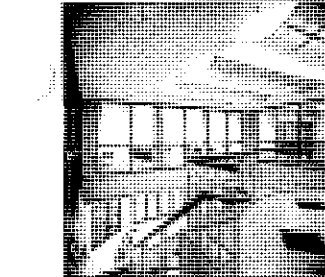
#### EDUCATION

Masters of Architecture, Virginia Polytechnic Institute & State University, Blacksburg, VA  
BS, Civil Engineering Technology, Fairmont State College, Fairmont, WV



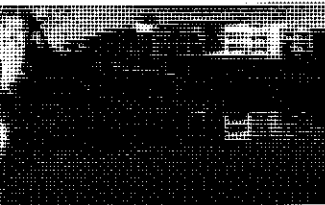
#### REGISTRATION

West Virginia, Pennsylvania, Ohio, Kentucky, New Jersey  
National Council Architectural Registration Board Certified  
Member of The American Institute of Architects  
Firm Member Associated Builders and Contractors Inc



#### GENERAL EXPERIENCE

- Project Architect in charge of design and construction for Omni Associates - Architects since 1984
- Responsible for coordinating and designing all aspects of a project from schematic design through the final completion of construction for a wide range of commercial projects to include presentation renderings and graphics
- Previously employed by Robert J. Bennett AIA & Associates, Morgantown, West Virginia 1983 to 1984 Worked and managed various phases from schematics to working drawings on a number of new and renovated educational facilities.



#### RELATED EXPERIENCE

- Colonel in the United States Army Reserves currently assigned as the Commanding Officer of the 206th Army Liaison Team, 412th Engineer Command in Fort Jackson, South Carolina
- Member of the Faculty Advisory Committee for Civil Engineering Technology and Architectural Engineering Technology, Fairmont State College, Fairmont, West Virginia
- Member of the Bridgeport City Planning Commission
- Previously a part time Instructor of Architecture at Fairmont State College, Fairmont, WV responsible for the instruction of senior level students in architectural construction and detailing



#### Select Project Experience for Mr. Forren

Allegheny Energy Transmission Operations Headquarters, Fairmont, WV

West Virginia Army National Guard, Fairmont, WV  
Armed Forces Readiness Center

West Virginia High Technology Consortium, Fairmont, WV  
5000 NASA Boulevard  
Allan B. Mollohan Innovation & Incubator Center  
Technology Consortium Training Center

Marion County Schools, Fairmont, WV  
West Fairmont Middle School  
Fairmont Sr High School Cafeteria

Fairmont State University, Fairmont, WV  
Library Addition & Renovation  
Feaster Center Renovation & Addition  
Colebank Hall Renovation  
Inner Campus Renovation  
New Engineering Technology Building  
New Performing Arts Building  
Robert C. Byrd Mid-Atlantic Aviation Training Center Phases I & II

City of Fairmont, Fairmont, WV  
Public Safety Building  
Downtown Parking Garage

West Virginia Army National Guard, Eleanor, WV  
Maintenance Facility  
Armed Forces Readiness Center  
Access Road & Guard House

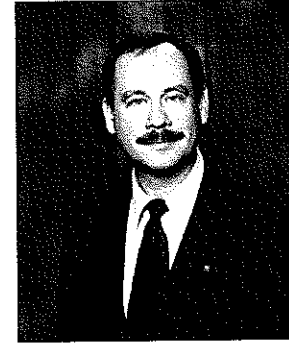
Snowshoe Mountain Resort, Snowshoe, WV  
St Barnard Catholic Chapel  
Shaver Center Renovation Design

General Services Administration  
Federal Building Renovations  
Wheeling, WV  
Martinsburg, WV  
Huntington, WV  
Beckley WV



## Resume

### John R. Sausen AIA, NCARB, LEED AP



#### PROJECT ASSIGNMENT

Principal  
Project Architect

#### EDUCATION

Bachelor of Architecture: University of Cincinnati in 1982  
(Magna Cum Laude)

#### REGISTRATION / PROFESSIONAL AFFILIATIONS

State of West Virginia, 1985, Pennsylvania, Ohio, Maryland  
National Council Architectural Registration Board  
Member of The American Institute of Architects  
Past President: AIA/WV  
Firm Member Associated Builders and Contractors Inc.  
LEED for New Construction Accredited Professional

#### GENERAL EXPERIENCE

- Project Architect in charge of design and construction for Omni Associates - Architects since 1983. Responsible for coordinating and designing all aspects of a project from schematic design through the final completion of construction including presentation renderings and graphics for a wide range of commercial projects. Specializing in Design-Build.
- Worked for three months in 1981 for Kraemer, Sieverts & Partners, Braunschweig, West Germany on an office, residential and civil defense complex for the Ministry of Interior, Kingdom of Saudi Arabia. The complex was to be of pre-cast metric. The design was to be flexible enough for construction in six different cities.
- Interned with architectural firms in Ohio and West Virginia prior to joining Omni.

#### RELATED EXPERIENCE

- President of American Institute of Architects - West Virginia Chapter in 2000 & 2001. Worked with the Design Awards, Search for Shelter, Architecture for Kids, Livable Communities Committees. Has served on the AIA West Virginia Board of Directors from 1990 to present.
- Instructor of Architecture at Fairmont State College, Fairmont, West Virginia - part time to 1990. Responsible for the instruction of design and construction relationships.
- Pleasant Acres Personal Care Home in Fairmont, WV, Board of Directors member since 1990.
- Boy Scouts of America, Mountaineer Area Council merit badge counselor, building committee member and Eagle Scout Chairman. Achieved the rank of Eagle Scout and has been involved with Scouting for over 20 years.

#### Select Project Experience for Mr. Sausen

**West Virginia University Child Care Center**

**Mylan Pharmaceuticals**  
Morgantown, WV  
(Design - Build Projects)  
North Expansion  
Executive Offices  
Corporate Office Building  
Research and Development Lab

**West Virginia University Hospitals**  
Morgantown, WV

North & Northeast 8 story addition  
Cheat Lake Family Medicine Clinic  
The Family House  
Linear Accelerator Installations I & II  
Center for Gamma Knife  
Radiosurgery  
Eye Center Clinic Renovations

**HealthWorks Physical Therapy Facility**  
Morgantown WV

**Glennmark Corporation**  
**Personal Care Facilities**

The Madison, Morgantown, WV  
Shenandoah Nursing & Rehabilitation  
Center, Charles Town, WV  
Oak Ridge Nursing & Rehabilitation  
Center Charleston WV

**WV Radio Corporation**  
WDYK Radio Cumberland Md

**CDC/NIOSH**  
**Open End Multi Year Contract**  
Morgantown, WV / Pittsburgh Pa

**Glenville Federal Correctional Institute**  
Construction Administration  
Glenville WV



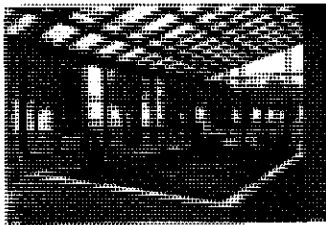
# Resume

## Edward "Ned" Luthy AIA, NCARB



**PROJECT ASSIGNMENT**  
Senior Associate  
Project Architect

**EDUCATION**  
Bachelor of Architecture  
University of Arizona, Tucson, AZ  
May 1986

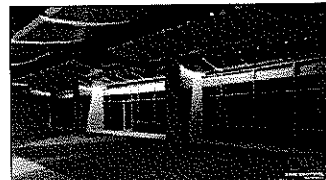


**REGISTRATION**  
State of West Virginia  
National Council Architectural Registration Board Certified  
Member of The American Institute of Architects



### GENERAL EXPERIENCE

- Architect with over 20 years experience in developing long term relationships with clients, consultants, and the construction industry
- An effective team member with a strong contract document background combined with construction administration capabilities and experience in many project delivery formats
- Adept as a Project Manager and flexible in performing as a designer, drafter, specifier, estimator, and administrator
- Strong design focus on schools and detention centers



### RELATED EXPERIENCE

- Ned's past 10 years experience, most of which was spent with a sole proprietor architectural firm, has provided him with opportunities to perform all duties associated with an architectural practice
- Supervised the master plan, interview, design documents and construction for the Stafford Hansell Government Center for Umatilla County, Oregon. The project spanned a seven year period and Ned considers it the signature building of his career
- 12 years experience with a large, nationwide architectural/engineering firm allowed Ned to acquire progressive responsibilities and achieve promotions from intern through senior associate
- Former adjunct professor teaching AutoCAD at Blue Mountain Community College in Pendleton, Oregon



### Select Project Experience for Mr. Luthy

#### Omni Associates-Architects

- Shaft Drillers International Headquarters
- Allegheny Energy Transmission Operations Headquarters
- Canaan Valley Institute

#### With Alderson Karst & Mitro Architects, Idaho Falls, Idaho:

- New Teton Toyota Dealership
- Office Buildings at Snake River Landing

#### With Sargent Architects, Hermiston, Oregon:

- Stafford Hansell Government Center
- East Oregonian Newspaper
- Our Lady of Angels Catholic Church
- New City Hall and Library
- New Intermediate School
- Cove High School Classroom Additions and Renovation
- Windy River Elementary School Classroom Additions
- Professional/Technical Education Building
- Umatilla County Public Health Building
- Eastern Oregon University Addition to Quinn Coliseum
- Umatilla County Courthouse Masterplan and Renovation
- Pendleton Round-Up Stadium Renovation Masterplan





# Resume

## Jaime Ryan-Mathess, LEED AP

**PROJECT ASSIGNMENT**  
Project Manager

**EDUCATION**  
Masters of Architecture  
Virginia Polytechnic Institute, Blacksburg, Virginia  
In Progress

Bachelor of Science in Engineering Technology  
Fairmont State University, Fairmont, West Virginia  
1996

**REGISTRATION**

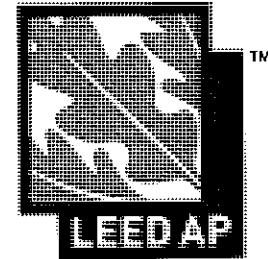
- LEED for New Construction Accredited Professional
- AIA WV Associate Member

**GENERAL EXPERIENCE**

- Intern architect with six years of practice in the architectural field
- As Project Manager for Canaan Valley Institute (CVI), Jaime has gained a wealth of experience in all aspects of project development from programming through construction administration
- Through her extensive 'green' product research Jaime has been integral in working towards LEED Certification for both CVI and Allegheny Energy
- Previous work has provided Jaime with a broad base of knowledge in a variety of project types including commercial, small and large scale residential and health care facilities
- Cumulative work experience includes schematic design, construction documents, product specifications, site assessments, master planning, architectural renderings, marketing graphics and administrative tasks

**RELATED EXPERIENCE**

- Worked with the Board of Architectural Review in Charlottesville, Virginia to ensure that Albemarle Cottages at Westminster-Canterbury of the Blue Ridge met with the criteria and standards of the Architectural Design Control district, which includes Thomas Jefferson's Monticello
- Spent a semester abroad with the Center for European Studies & Architecture at Virginia Tech where she studied the famous modern and historical architecture of Italy, France, Germany, Switzerland and Austria
- Former member of the International Archive of Women in Architecture at Virginia Tech



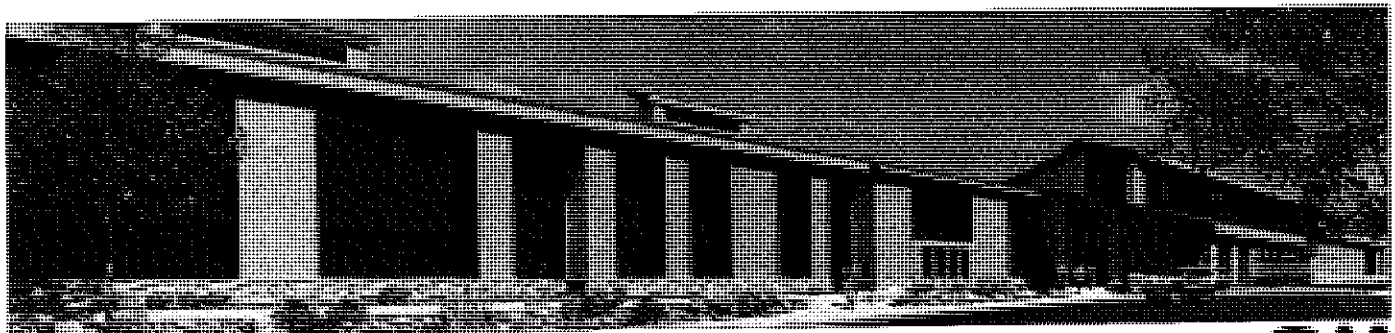
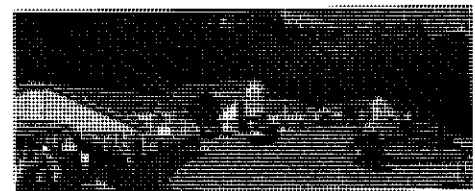
### Select Project Experience for Ms. Ryan-Mathess

**Omni Associates-Architects**

- Allegheny Energy Transmission Operations Headquarters
- Canaan Valley Institute
- Sundale Nursing Home Addition
- WVU Child Development Center
- Marriott Fairfield Inn

**With SFCS, Inc.,  
Roanoke, Virginia:**

- Westminster-Canterbury of the Blue Ridge Albemarle Cottages
- Abernathy Laurels Community Center Cottages, and Renovation of Assisted Living Center



## References



Omni Associates - Architects

### unsolicited comments...

*"... this (West Virginia High Technology Consortium) is indeed an important economic development project for West Virginia, and I wish to thank Omni Associates for the predominant role that they played in making this endeavor, as well as many other significant projects across the state, a reality.."*

**Robert C. Byrd**  
United States Senate

*"You are truly the most responsive, friendly, and personable firm I have come across recently - many thanks, and kudos to you for establishing such a great dynamic within your work environment "*

**Katie Leavy**  
HGTV (Home & Garden TV) TV Personality  
Capital Design

West Fairmont Middle School. . . *"The template for the twenty-first century school"*

**Dr. James B. Phares**  
Superintendent: Marion County Schools

*"You have been an excellent team player, and we surely appreciate the quality of the building (Fairmont State College Education and Health Careers Building) you helped develop."*

**Robert J. Dillman**  
President  
Fairmont State College

*"At a time of the year when we count our blessings, we at HOPE want you to know how much we have appreciated you and your work in the past few years."*

**Nancy Hoffman**  
Director of Development  
HOPE, Inc. - Task Force on Domestic Violence

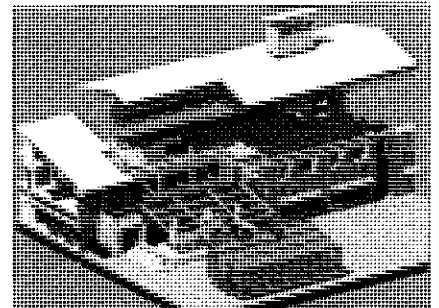
*"In appreciation of all of your hard work, dedication, and technical support to the Eleanor Maintenance Complex, West Virginia Army National Guard. Your expertise has helped create one of the finest Maintenance Shops in the United States "*

**Robert D. Davis, CPT, OD, WVARNG CSMS Superintendent**  
**Warren T. Huxley, LTC, EN, WVARNG,**  
Surface Maintenance Manager



*"Building Green is more than obtaining LEED Certification. The team of Omni and Manheim (General Contractor) truly listened to CVI's unique vision of sustainable design, and developed a project that brought that vision to life. Their synergy and willingness to become our partner, provided a constant focus on quality, cost, and schedule."*

**Kiena Smith**  
Executive Director  
Canaan Valley Institute



## References

### Client

**Allegheny Power**

800 Cabin Hill Drive  
Greensburg, PA 15601-1689

**Braxton County Development Authority**

P.O. Box 1925  
Charleston, WV 25314

**West Virginia HighTechnology Consortium Foundation**

1000 Technology Drive, Suite 1000  
Fairmont, WV 26554

**Morgantown Utility Board**

278 Greenbag Road  
Morgantown, WV 26501

**City of Fairmont**

200 Jackson Street  
Fairmont, WV 26554

**Mylan Pharmaceuticals**

781 Chestnut Ridge Road  
Morgantown, WV 26505

**Canaan Valley Institute**

P.O. Box 673  
Davis, WV 26260

**West Virginia Radio**

P.O. Box 1900  
570 Canyon Road  
Morgantown, WV 26505

**West Virginia Army National Guard**

1707 Coonskin Drive  
Charleston, WV 25311-1099

**Fairmont State University**

Locust Avenue  
Fairmont WV 26554

**Division of Natural Resources WV Parks & Recreation Section**

Capitol Complex, Bldg. 3, Room 714  
1900 Kanawha Blvd., East  
Charleston, WV 25305-0662

### Contact

**Ms. Linda Moss**

General Manager, Substations  
301.790.6413

**Ms. Terrell Ellis**

Executive Director  
304.342.6972

**Mr. Brad Calandrelli**

Facility and Property Program Manager  
304.366.2577 ext. 233

**Mr. James Green**

General Manager  
304.292.8443

**Mr. Jay Rogers**

City Manager  
304.366.6211

**Mr. J.J. Dotson**

Director of Engineering  
304.554.5520

**Mr. Dan Wheeler, Construction Manager**

Science & Technology Team  
304.463.4739

**Mr. Jim Troy**

V.P. of Finance  
304.594.1768

**BG Melvin Burch**

Div. of Engineering & Facilities, Armory Board  
304.561.6450

**Mr. James Decker**

Assistant Vice President Physical Plant  
304.367.4861

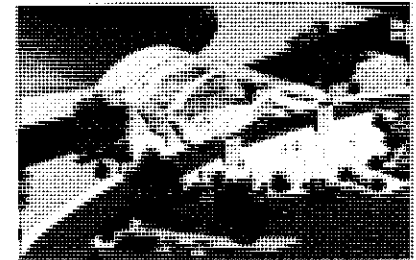
**Mr. Brad Leslie**

Chief Engineer  
304.558.2764 ext. 273



Omni Associates realizes that our relationship with our clients is a vital component in the success of realizing their goals and needs.

We encourage you to contact any of the following references in assisting you with your selection of a professional architectural firm.

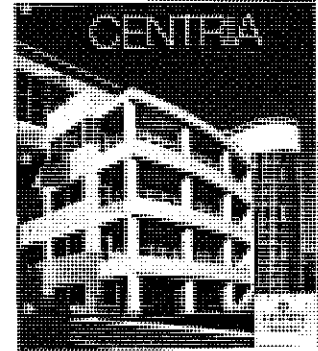


## Awards / Accolades / Publications

Omni Associates - Architects has been recognized for outstanding architectural services by several different organizations:

**West Virginia High Technology Consortium**  
**5000 NASA Boulevard**  
*CENTRIA 2009/2010 National Product Catalog*

*5000 NASA Boulevard was selected for the cover photograph of the CENTRIA 2009/2010 product catalog. Centria is a national leader in manufacturing architectural metal wall and roof systems*

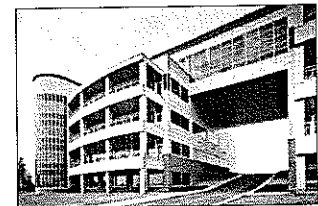
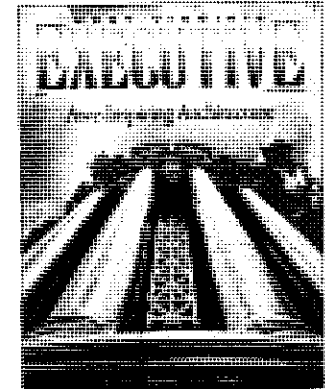


**West Virginia High Technology Consortium**  
**5000 NASA Boulevard**  
*West Virginia Executive Magazine*  
VOULUME III 2008

**Featured as one of ten examples  
of "Awe Inspiring Architecture"**

"The new towers at the Technology Park in Fairmont, WV are an outstanding addition to an already exceptional park; the towers were put in place by the West Virginia High Technology Consortium Foundation (WVHTC). Site work began in the fall of 2005; the buildings themselves are approximately 130,000 square feet and cost \$24 million with 95 percent of the workers coming from West Virginia. The buildings sport a 6,000-square-foot conference center that spans the top of the towers and connects the two buildings with 5,700-square-foot working balconies and 2,200-square-foot roof-top gardens

The view from the conference room on the fifth floor is one of the best in the state with the ISR building, the NASA building and the Innovation Center all in view "



**Fairmont State University**  
**Engineering Technology Building Addition**  
*Master Builders' Association of Western Pennsylvania*  
**2008 Building Excellence Award Finalist**  
**Category: Best New Construction Over \$10 Million**  
The Design Alliance / Omni Associates - Architects  
Landau Building Company (General Contractor)  
Fairmont, West Virginia



# Awards / Accolades / Publications

## Mid-Atlantic Sports Cars

Morgantown, West Virginia

Annual Varco Pruden Annual Hall of Fame Competition

- 2009 Hall of Fame Award: Automotive Category
- 2009 Best Of Category

General Industries, Inc. (General Contractor)



## West Virginia High Technology Consortium

5000 NASA Boulevard

Published project: DCD Magazine (Design Cost Data)

September - October 2009

**5000 NASA Boulevard**  
Fairmont, West Virginia

**Project Overview**  
The 5000 NASA Boulevard building is a 10-story, 1,000,000 sq ft high-tech facility designed to house the West Virginia High Technology Consortium. The building features a modern, industrial aesthetic with large glass windows and a prominent entrance.

**Key Features**  
• 10-story building  
• 1,000,000 sq ft  
• High-tech facility  
• Modern industrial design

**DCD Magazine (Design Cost Data)**  
September - October 2009

**Table 1: Building Cost Summary**

Category	Cost (\$)
Construction	10,000,000
Interior	2,000,000
Exterior	1,000,000
MEP	1,500,000
IT	500,000
Other	1,000,000
<b>Total</b>	<b>16,500,000</b>

**Table 2: Building Schedule**

Activity	Start Date	End Date
Site Preparation	09/01/09	09/30/09
Foundation	10/01/09	10/31/09
Structural Steel	11/01/09	11/30/09
Exterior Walls	12/01/09	12/31/09
Interior Walls	01/01/10	01/31/10
MEP	02/01/10	02/28/10
IT	03/01/10	03/31/10
Other	04/01/10	04/30/10
<b>Completion</b>	<b>05/01/10</b>	<b>05/31/10</b>



## West Fairmont Middle School

Published project: DCD Magazine (Design Cost Data)

September - October 2008

**West Fairmont Middle School**  
Fairmont, West Virginia

**Project Overview**  
The West Fairmont Middle School is a 100,000 sq ft educational facility designed to provide a modern learning environment for students. The building features a bright, open-plan design with large windows and flexible classroom spaces.

**Key Features**  
• 100,000 sq ft  
• Educational facility  
• Modern learning environment

**DCD Magazine (Design Cost Data)**  
September - October 2008

**Table 1: Building Cost Summary**

Category	Cost (\$)
Construction	8,000,000
Interior	1,500,000
Exterior	1,000,000
MEP	1,000,000
IT	500,000
Other	1,000,000
<b>Total</b>	<b>13,000,000</b>

**Table 2: Building Schedule**

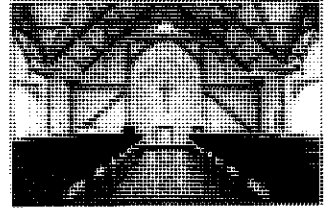
Activity	Start Date	End Date
Site Preparation	09/01/08	09/30/08
Foundation	10/01/08	10/31/08
Structural Steel	11/01/08	11/30/08
Exterior Walls	12/01/08	12/31/08
Interior Walls	01/01/09	01/31/09
MEP	02/01/09	02/28/09
IT	03/01/09	03/31/09
Other	04/01/09	04/30/09
<b>Completion</b>	<b>05/01/09</b>	<b>05/31/09</b>



## Awards / Accolades / Publications

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**St. Bernard Chapel**  
*American Institute of Architects—West Virginia*  
**2008 Merit Award - Achievement in Design**  
Snowshoe, West Virginia



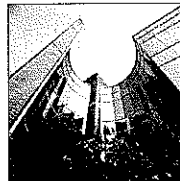
**City of Fairmont**  
**Public Safety Building**  
*Main Street West Virginia*  
**2007 Best Exterior Renovation Project**  
Fairmont, West Virginia



**Mylan Pharmaceuticals**  
**North Expansion**  
*Associated Builders and Contractors*  
**2007 Excellence in Construction Award**  
Category: Mega Projects: More than \$100 Million  
MARCH-WESTIN CO (General Contractor)  
Morgantown, West Virginia



**Mylan Pharmaceuticals Executive Offices**  
*American Institute of Architects—West Virginia*  
**2001 Honorable Mention - Excellence in Design**  
Morgantown, West Virginia



**Mylan Pharmaceuticals**  
**East Wing Executive Offices**  
*Associated Builders and Contractors*  
**2001 Excellence in Construction**  
MARCH-WESTIN CO (General Contractor)  
Morgantown, West Virginia



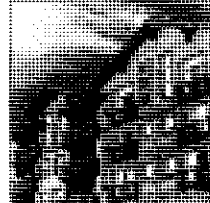
## Awards / Accolades / Publications

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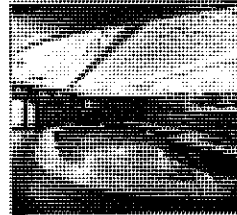
**Pete Dye Golf Club Clubhouse**  
*Associated Builders and Contractors*  
**2001 Excellence in Construction**  
MARCH-WESTIN CO (General Contractor)  
Bridgeport, West Virginia



**Rimfire Lodge**  
*American Institute of Architects—West Virginia*  
**2000 Honor Award - Excellence in Design**  
OMNI/RLA  
Snowshoe Mountain Resort  
Snowshoe, West Virginia



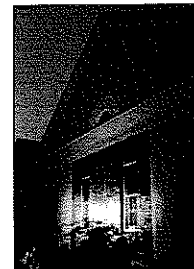
**HealthWorks**  
*American Institute of Architects—West Virginia*  
**2000 Merit Award - Achievement in Design**  
Morgantown, West Virginia



**West Virginia High Technology Consortium  
Training Center**  
*West Virginia High Technology Consortium Foundation*  
**1999 Operations Award of Excellence**  
"For positively impacting the economic growth of West  
Virginia and its emerging high technology business base"  
G A Brown (General Contractor)  
Fairmont, West Virginia



**Greer Industries  
The Paul S. Linsley Building**  
*Associated Builders and Contractors*  
**1998 Award Of Excellence**  
**Building of the Year**  
MARCH-WESTIN CO. (General Contractor)  
Morgantown, West Virginia



## Awards / Accolades / Publications

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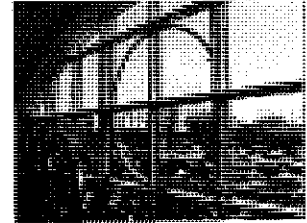
### **Mylan Pharmaceuticals Research And Development Facility**

*Associated Builders and Contractors*

**1997 Award Of Excellence**

**Building of the Year**

MARCH-WESTIN CO (General Contractor)  
Morgantown, West Virginia



### **Robert C. Byrd National Technology Transfer Center**

*American Institute of Architects—West Virginia*

**1996 Merit Award - Excellence in Design**

OMNI/WTW

Wheeling Jesuit University  
Wheeling, West Virginia



### **Education and Health Careers Building**

*American Institute of Architects—West Virginia*

**1993 Honor Award - Excellence in Design**

OMNI/WTW

Fairmont State College  
Fairmont, West Virginia



### **Hawthorne Valley Golf Course Clubhouse**

*American Institute of Architects—West Virginia*

**1993 Honor Award - Excellence in Design**

Snowshoe Mountain Resort  
Snowshoe, West Virginia



### **Concurrent Engineering and Research Center**

*Associated Builders and Contractors*

**1992 Building of the Year**

OMNI/WTW

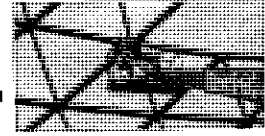
BRIDGES & COMPANY, Inc (General Contractor)  
West Virginia University  
Morgantown, West Virginia





# Project Experience

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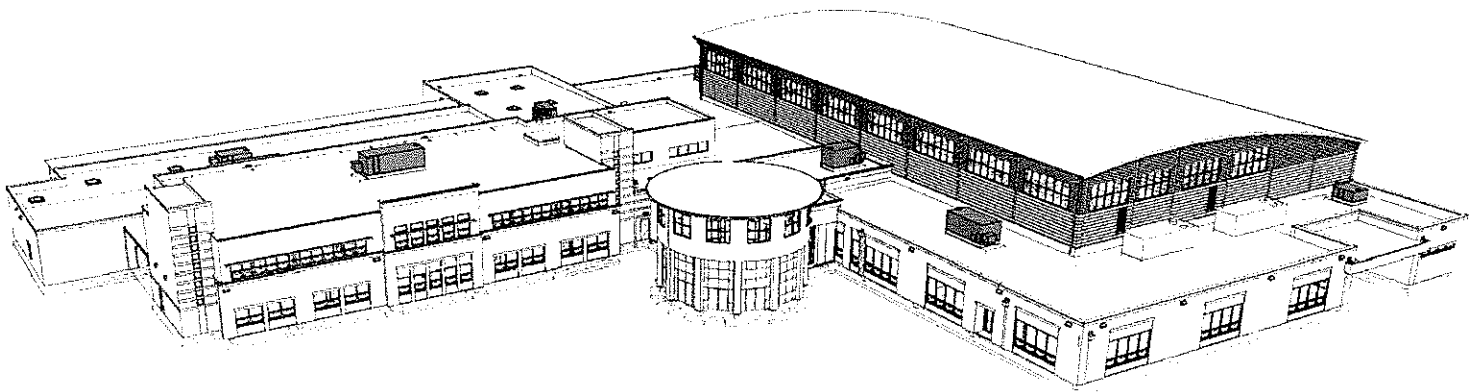
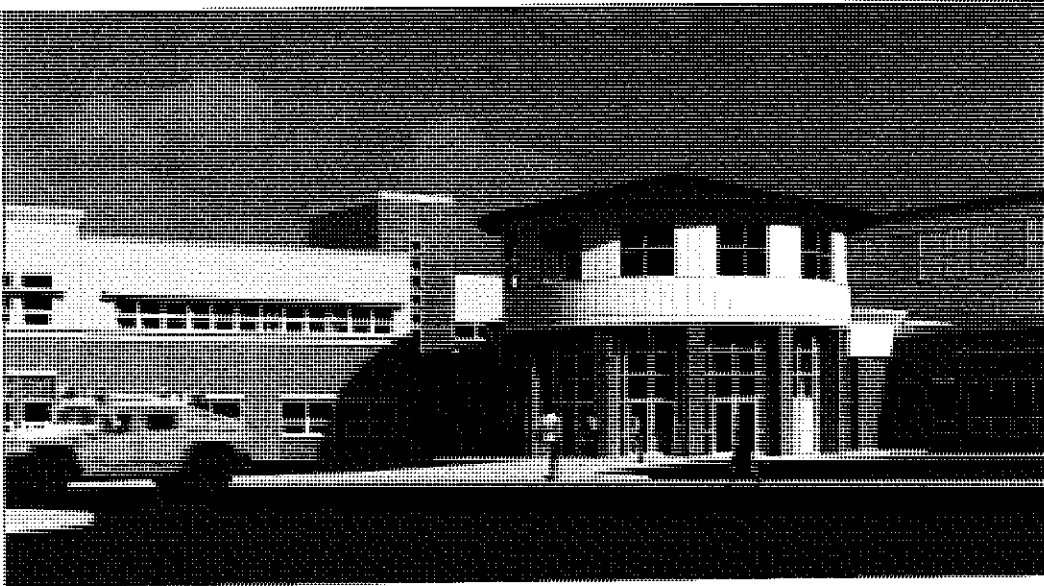
Omni Associates - Architects

# West Virginia Army National Guard (WVARNG) Fairmont Readiness Center



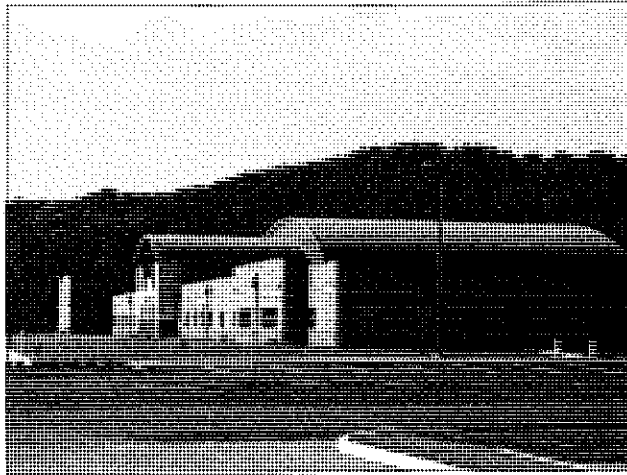
**Fairmont Readiness Center**  
West Virginia Army National Guard  
Fairmont West Virginia

\$ 25 Million  
91 500 sf





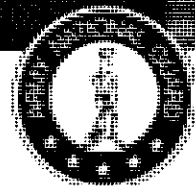
# West Virginia Army National Guard (WVARNG) Eleanor Readiness Center



The new Armory facility in Eleanor, West Virginia is a single-story, brick masonry and steel structure enclosing approximately 88,200 Net square feet. The building is located adjacent to the new Maintenance Facility on the site, with the main entrance facing east toward the main access to the site. The orientation of the building takes advantage of views of the wetland area and the Kanawha River. The Armory houses units of the state Army National Guard and one unit of the Navy

The aesthetics of the new structure will have a similar character and appearance as the Maintenance Facility, incorporating banding of a contrasting color, barrel-vaulted roofing, and similar doors and windows

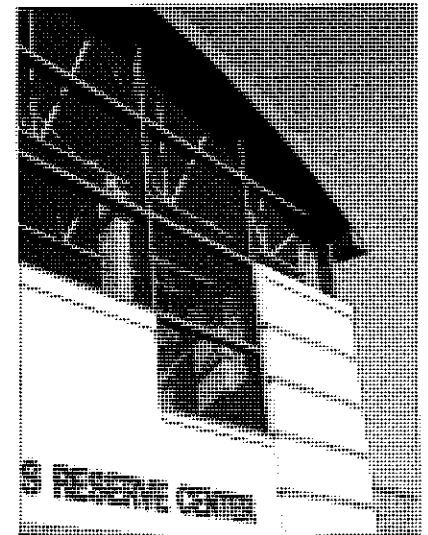
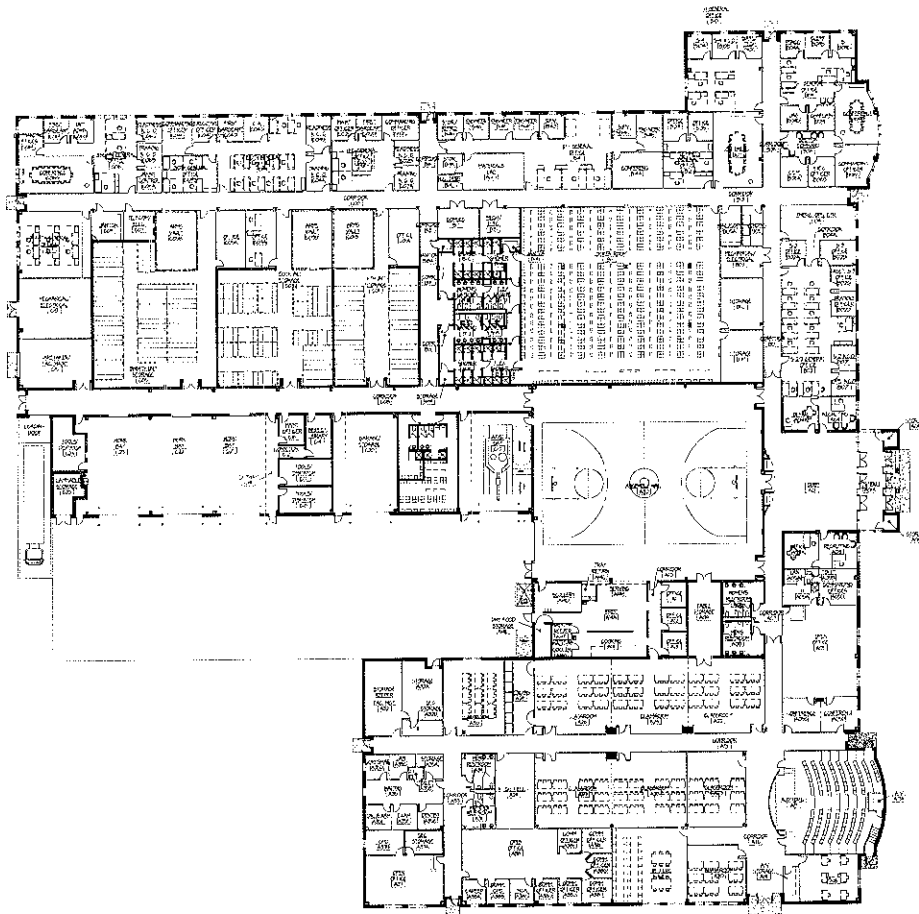
The plan configuration is a result of meetings with each of the units and commanders, and consolidates areas under the responsibility of individual units to minimize travel. The separation of public versus unit specific spaces is dictated by the need for logical and efficient circulation as well as the direct relationship of spaces within those areas



**Eleanor Readiness Center**  
West Virginia Army National Guard  
Eleanor, West Virginia  
83 900 Square Feet



# West Virginia Army National Guard (WVARNG) Eleanor Readiness Center



The relationship of the unit office areas to the unit storage areas is critical to the efficient workflow of the individual units. The unit storage areas are located adjacent to the loading dock at the rear of the building in order to provide access to military vehicles.

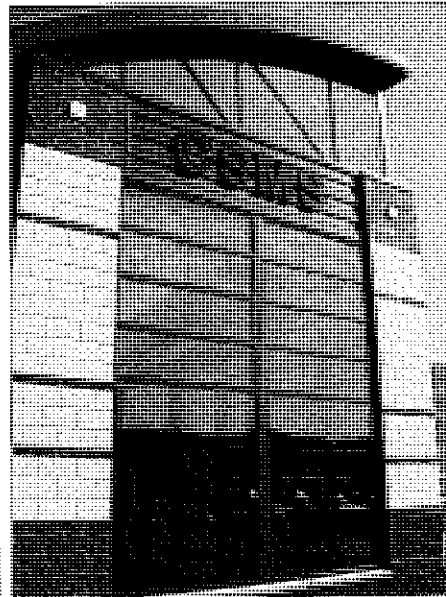
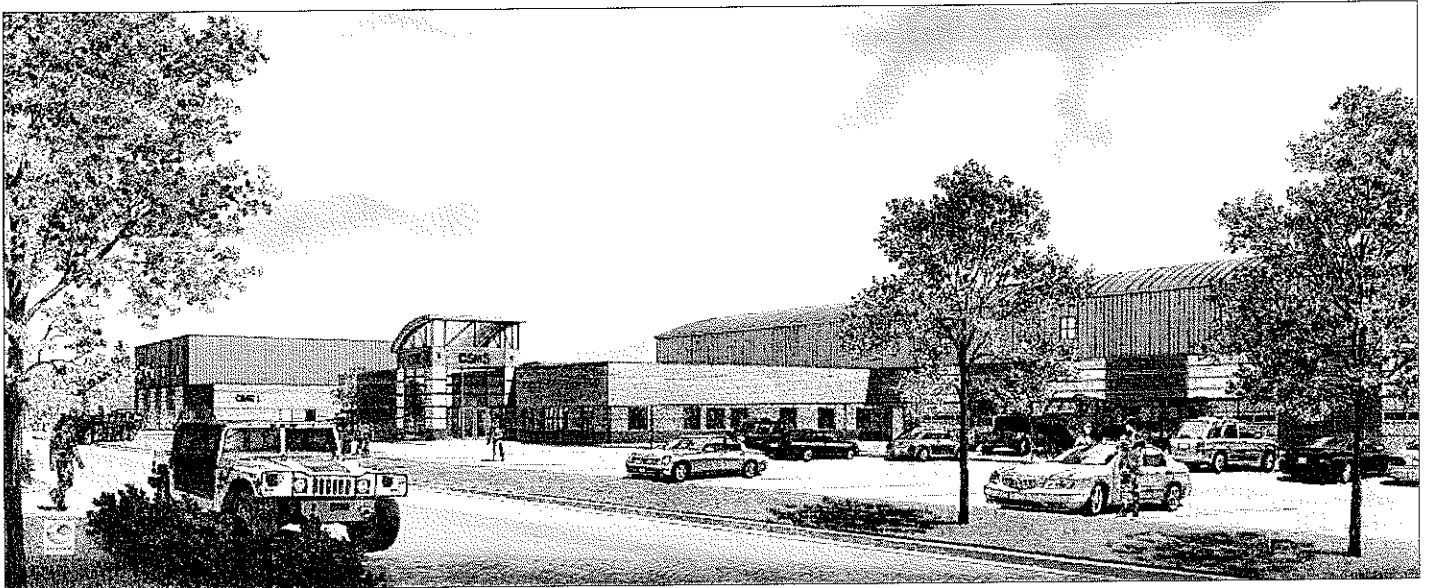
The Maintenance Work Bays and AFIST bay are located at the rear of the building for accessibility of military vehicles, as well as shielding the function of the areas from the entrance and the public. The AFIST bay is located adjacent to the Assembly Hall for the purpose of large group instruction within the hall and individual instruction within the bay area.

The location of the Assembly Hall is central to all spaces and adjacent to the main entrance due to its use for public and military functions. The hall is utilized by the military for drill training and dining, and by the public for gatherings such as banquets and dances. The Kitchen is located adjacent to the Assembly Hall to expedite meals to both civilians and the military.

A single story structure of this size requires a lot of area dedicated to circulation. However, when possible, large open areas such as the Assembly Hall were utilized for circulation.



# West Virginia Army National Guard (WVANG) Eleanor Maintenance Facility



## Eleanor Maintenance Facility

West Virginia Army National Guard  
Eleanor, West Virginia  
132 000 Square Feet

*"In appreciation of all of your hard work, dedication, and technical support to the Eleanor Maintenance Complex, West Virginia Army National Guard Your expertise has helped create one of the finest Maintenance Shops in the United States."*

**Robert D. Davis, CPT, OD,  
WVANG  
CSMS Superintendent**

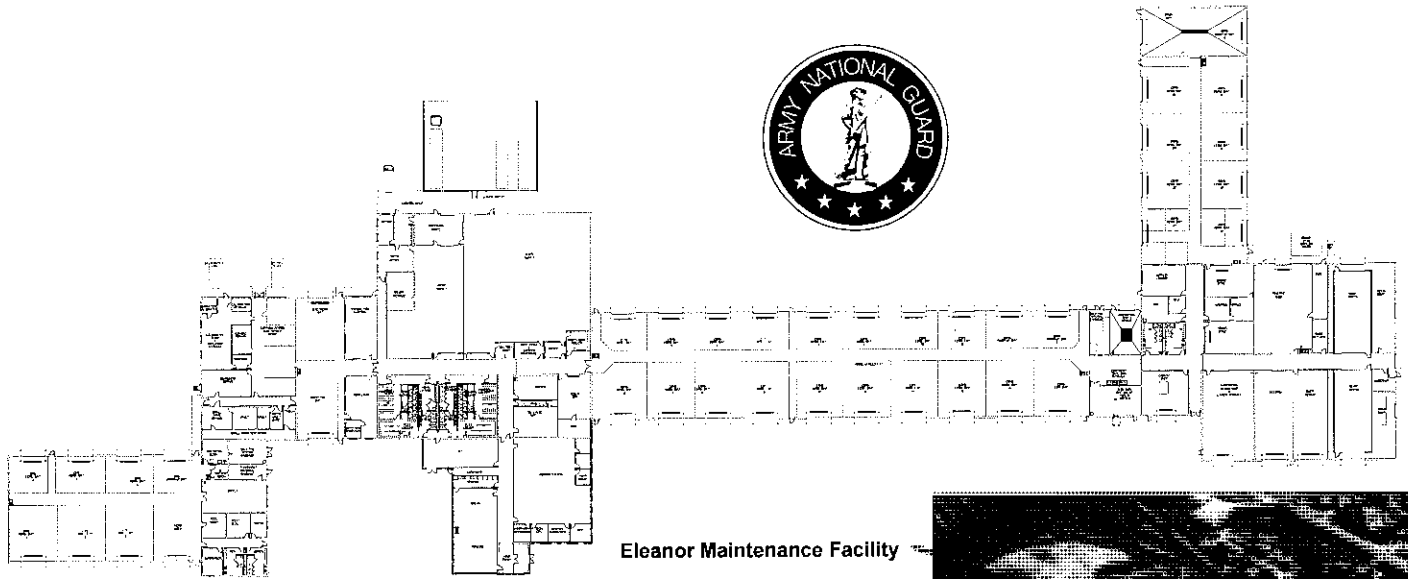
**Warren T. Huxley, LTC, EN,  
WVANG  
Surface Maintenance  
Manager**

The new Eleanor Maintenance Complex, in Eleanor, WV, is a 132,000 square foot state-of-the-art repair and maintenance facility for the West Virginia Army National Guard (WVANG). This specially designed Army "Combined Logistic Support Facility" will house the Combined Support Maintenance Shop (CSMS), an Organizational Maintenance Shop (OMS) and United States Property and Fiscal Office (USPFO) parts storage warehouse.

The design of the facility is based upon the functional concept of a straightforward flow in and around the facility. This focuses on a logical and efficient flow of work for the maintenance and repair of vehicles as well as the progression of components parts from delivery to installation. This flow also required controlling the movement of vehicles themselves as all vehicles arriving and leaving the complex are required to



# West Virginia Army National Guard (WVARNG) Eleanor Maintenance Facility



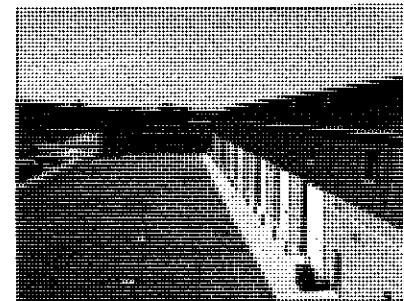
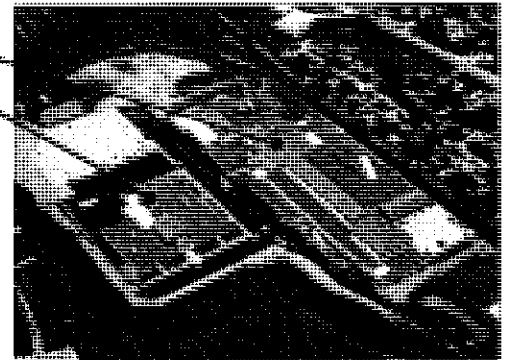
Eleanor Maintenance Facility

Eleanor Readiness Center

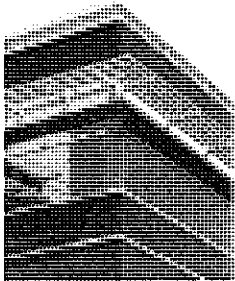
undergo pre and post inspections

The facility will provide a full range of maintenance support for all WVARNG military vehicles throughout the state. It includes 28 maintenance work bays with overhead bridge cranes, an engine rebuild shop, a body shop with blast and paint booths, a carpentry shop, a machine shop, a canvas shop, a small arms repair shop and an electrical / communications repair shop. The facility also has specialized testing capabilities in the form of an engine and transmission dynamometer.

These capabilities truly make the Eleanor Maintenance Complex a state-of-the-art facility for the West Virginia Army National Guard.



# Allegheny Energy Transmission Building and Operations Center



Allegheny Energy selected Omni Associates – Architects via a competitive selection process to provide all Architectural and Engineering services for its new transmission operations headquarters in Fairmont, West Virginia. The environmentally friendly facility is located on a 9-acre parcel of land in the I-79 Technology Park. Services provided by Omni include site selection assistance and development services, architectural design services, civil, structural, mechanical, and electrical engineering services, bid document development, construction contract administration services, and post contract administrative services.

Scheduled for completion in September 2010, the state-of-the-art facility will serve as the center for Allegheny's multi-state transmission functions, including around-the-clock management of the electric grid. The building will house the Transmission Operations Control Center, a Data Center, Class A commercial office space, and all associated electrical, mechanical, and support facilities. The Transmission Operations Control Center and Data Center shall be constructed to meet a site infrastructure performance rating of Tier III. The new construction project will seek LEED™ (Leadership in Energy and Environmental Design) Certification with an anticipated Silver Rating.

Headquartered in Greensburg, Pennsylvania, Allegheny Energy is an investor-owned electric utility with total annual revenues of over \$3 billion and more than 4,000 employees. The company owns and operates generating facilities and delivers low-cost, reliable electric service to over 15 million customers in Pennsylvania, West Virginia, Maryland and Virginia.



**Allegheny Energy Transmission  
Building & Operations Center**  
Fairmont West Virginia

Estimated Construction Cost: If required, overall square footage and construction cost can be obtained by contacting owner's representative as listed below.

Construction Method: Design-Build

- Transmission Operations Control Center
- Data Center
- Class A commercial office space

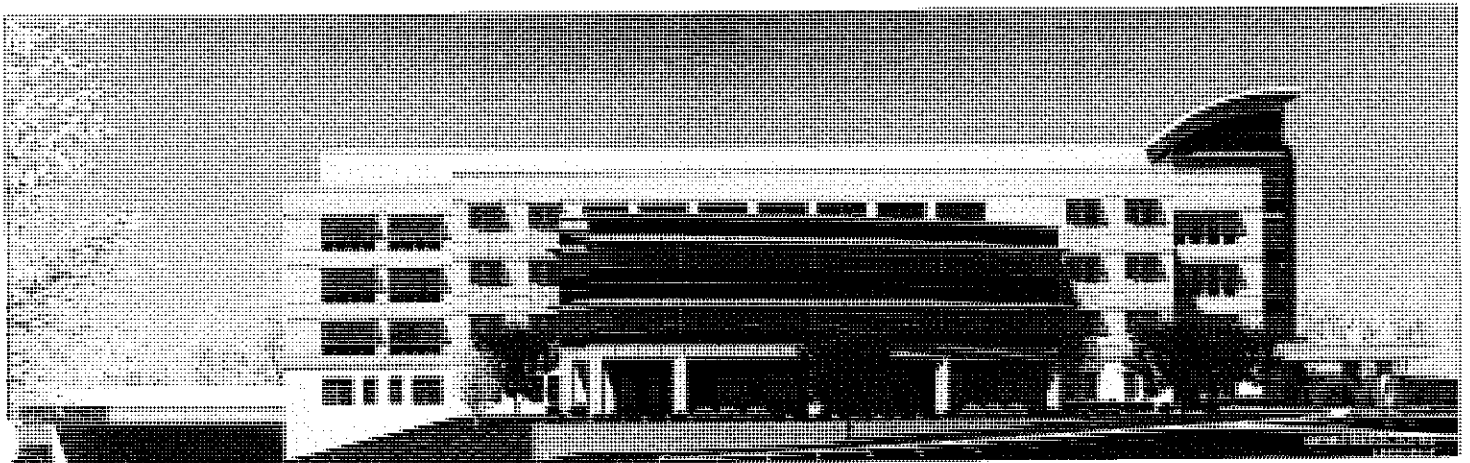
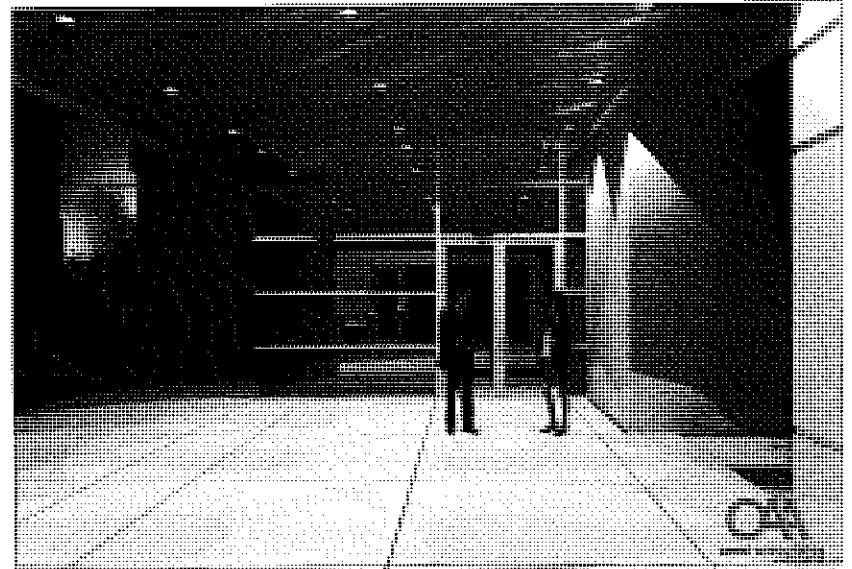
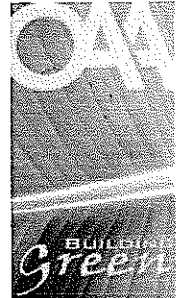
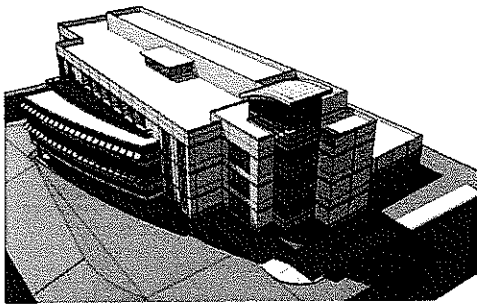
LEED Certification:  
Anticipated Silver Rating

Contact: Jason W. Corbin  
Address: 800 Cabin Hill Drive  
Greensburg, PA 15601-1689  
Phone: 724-838-6261  
Email: jcorbin@alleghenypower.com

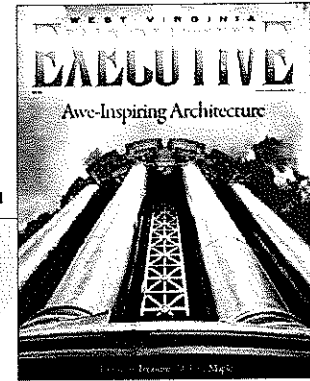




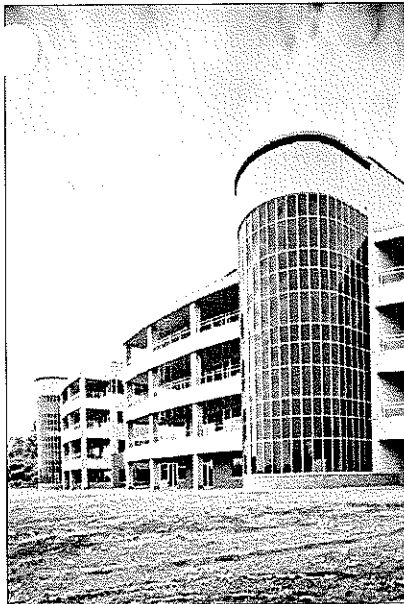
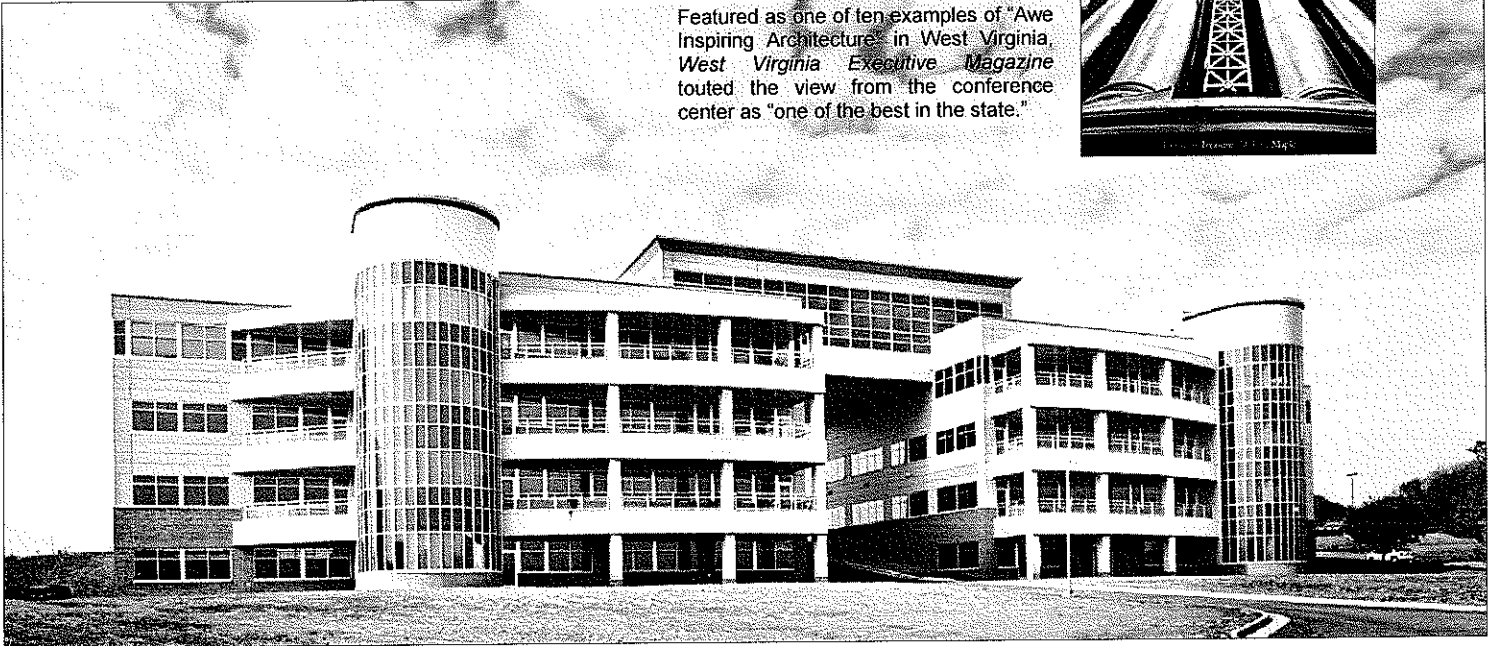
# Allegheny Energy Transmission Building and Operations Center



# The West Virginia High Technology Consortium Foundation 5000 NASA Boulevard



Featured as one of ten examples of "Awe Inspiring Architecture" in West Virginia, *West Virginia Executive Magazine* touted the view from the conference center as "one of the best in the state."



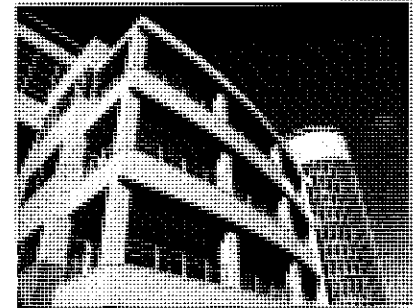
5000 NASA Boulevard stands as the newest addition to the West Virginia High Technology Consortium's I-79 Technology Park located in Fairmont. The mission of the Consortium is to "foster growth and instill sustainability" in this new technology sector. With that in mind, the architect was tasked to design two multi-tenant structures to fit within the context of the Technology Park.

The architect's concept was to prominently position the two structures on a long narrow site in which visibility was limited to twenty-five percent of the total site; however, placing two structures in such close proximity to one another would not contextually be the solution for this park.

The solution was to consolidate the separate structures so they both could be prominently displayed. Visibility from the extensively traveled I-79 corridor was a determining factor in the design consideration. This established two distinctive facades. The front façade

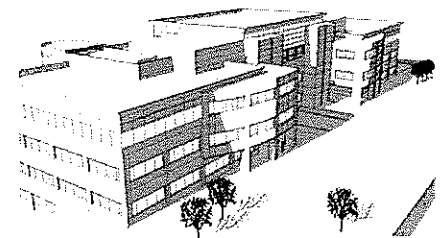
displays the building's visual images, features, and materials, which not only fit within the context of the park but are also in keeping with the image of a technology structure. This façade displays the prominent features of the building including multi-story glass-encased semi-circular tower elements and east facing outdoor balconies that take advantage of outstanding scenic views and provide outdoor opportunities for tenant spaces at every floor along with 2,200 square feet of rooftop gardens. The rear façade features more utilitarian elements with main entrances and adjacency to the building's parking.

The primary form of the building is two distinctive structures of a rectangular configuration intersected by various curved forms. A large bifurcated curve delineates the outdoor

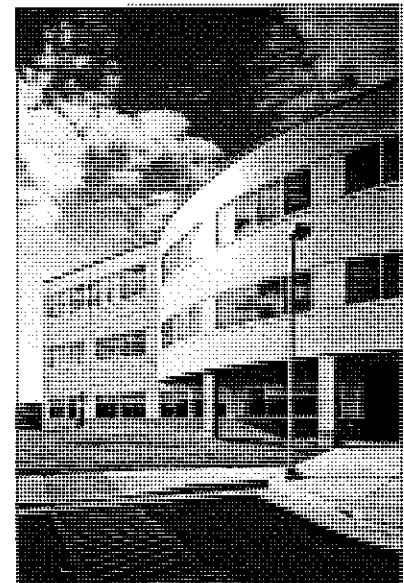
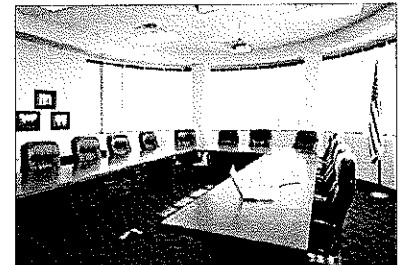
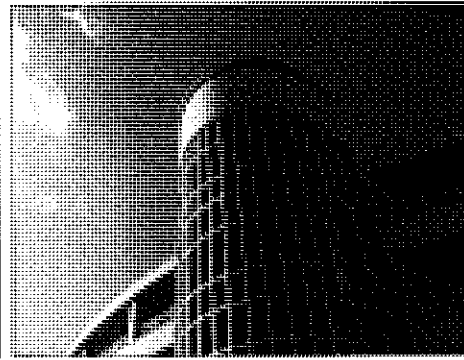
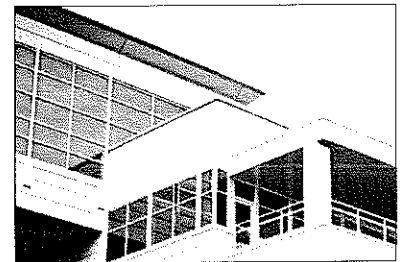
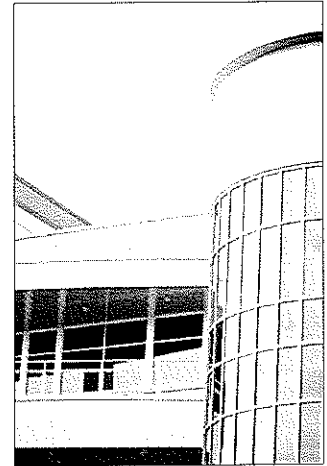
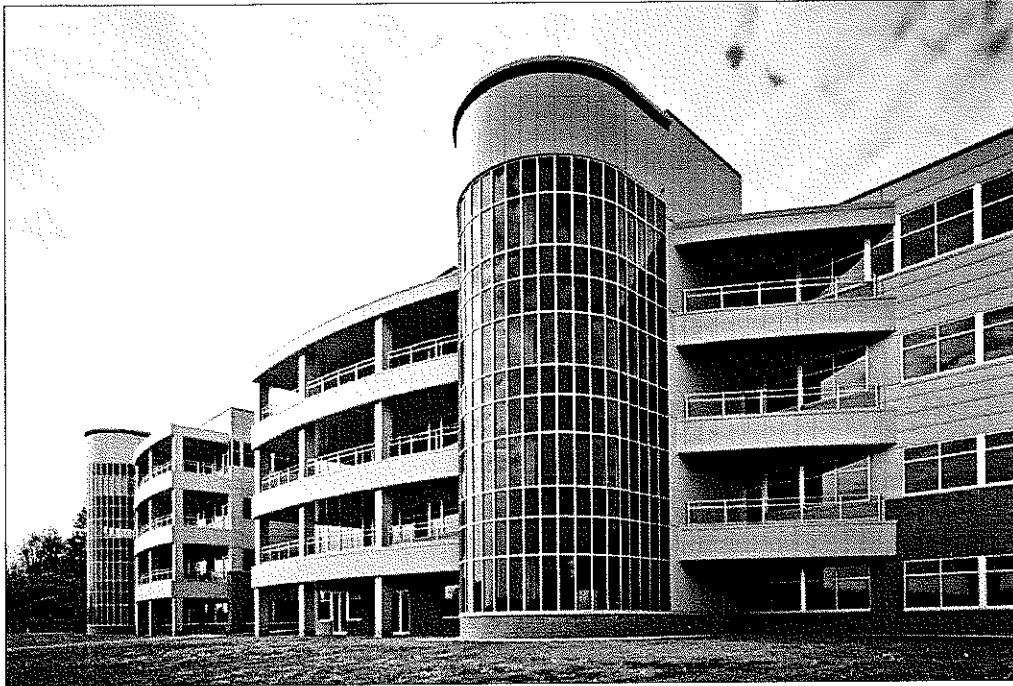


**The West Virginia High Technology Consortium Foundation**  
5000 NASA Boulevard  
Fairmont, West Virginia

130,000 Square Feet  
\$18 Million: Building  
\$2 Million: Site



# The West Virginia High Technology Consortium Foundation 5000 NASA Boulevard



balconies while the multi-story glass-encased semi-circular component provides symmetrical featured elements. The two structures are physically connected on the fifth floor by a 6,000 square foot bridge-like conference center that further strengthens the primary form and creates an approach that provides visual depth as the roadway to building access and parking passes through the structure itself. The structure is situated on the site so that parking is concealed and the aesthetic impact of the façade is maximized.

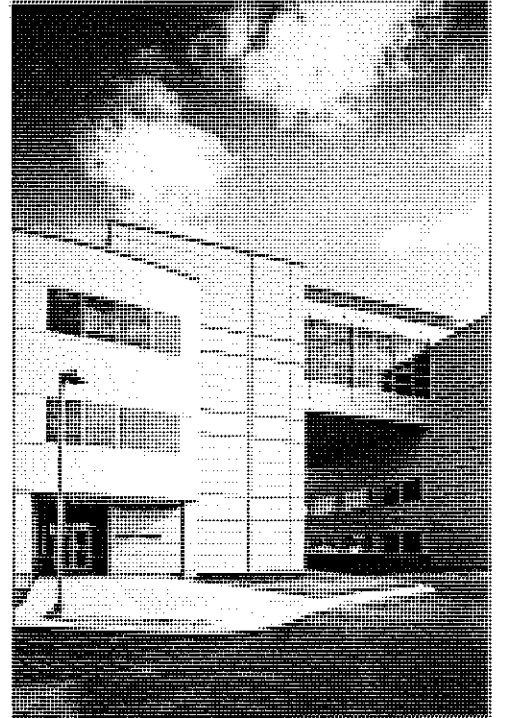
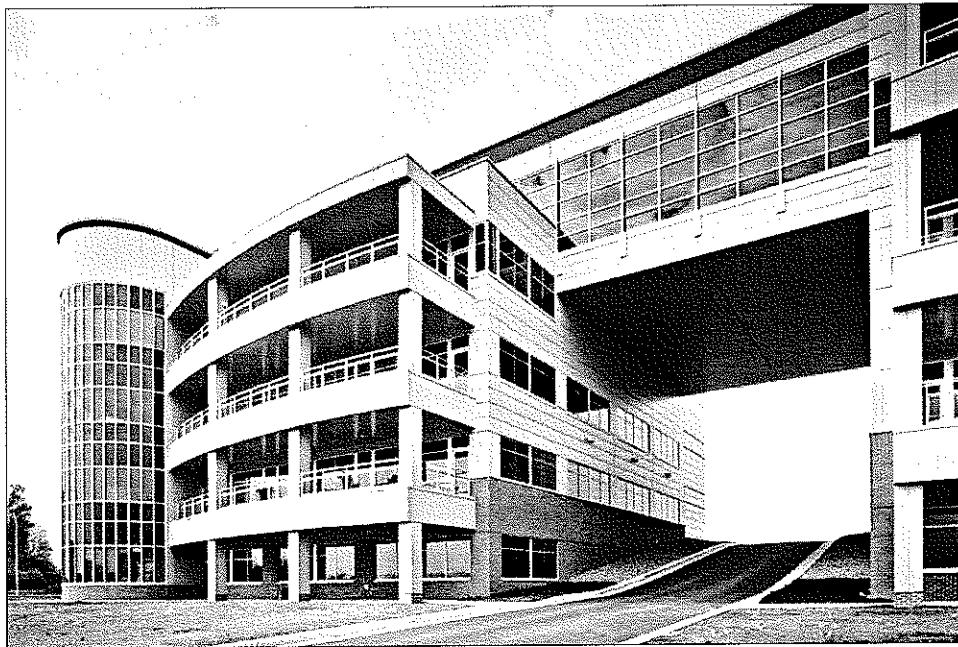
Metal panels were selected as an exterior wall system in order to create clean lines and texture representative of technology. The effect is a 21<sup>st</sup> Century look that reflects the aspirations of the owners while complementing the existing buildings in the technology park. The panels consist of 22-26% recycled content and are 100% recyclable. As an additional benefit, their superior insulation system reduces overall energy consumption in the building.

The architect's commitment to innovation and creativity is reflected in this unique design which also allows for flexibility in the interior spaces in an ever-changing technology market.

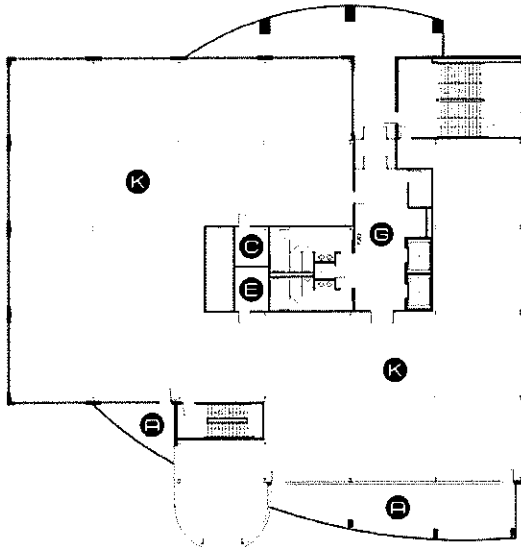
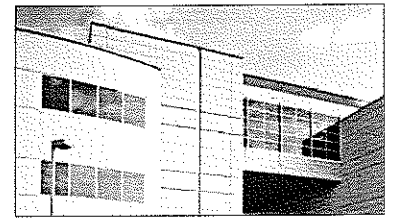


The West Virginia High Technology  
Consortium Foundation  
5000 NASA Boulevard

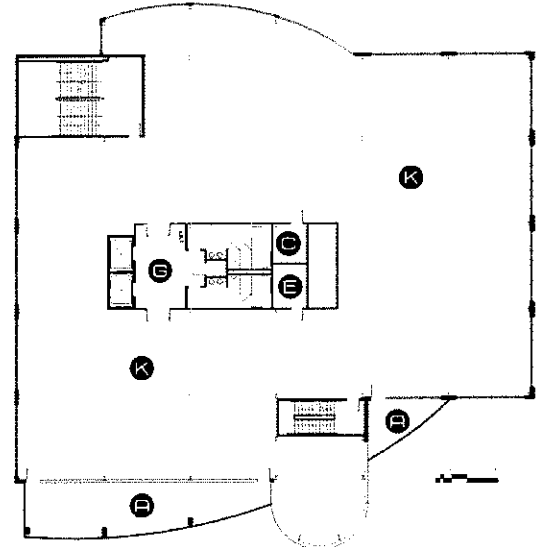
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# The West Virginia High Technology Consortium Foundation 5000 NASA Boulevard

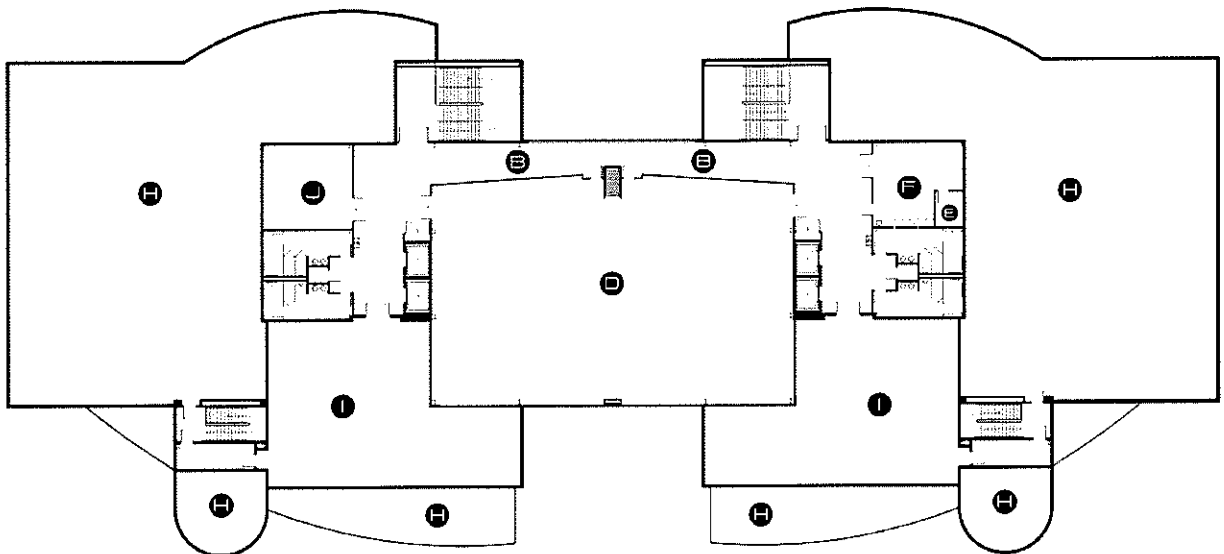


2nd Floor South Tower -Typical



3rd Floor North Tower -Typical

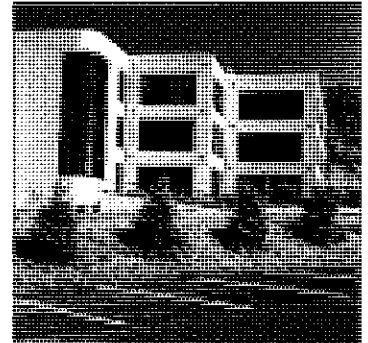
- |                   |                    |                       |
|-------------------|--------------------|-----------------------|
| Ⓟ Balcony         | Ⓜ Electrical       | Ⓛ Roof Garden         |
| Ⓟ Break-out Area  | Ⓝ Food Preparation | Ⓜ Storage             |
| Ⓞ Communication   | Ⓞ Lobby            | Ⓚ Tenant Office Space |
| Ⓞ Conference Room | Ⓜ Roof             |                       |



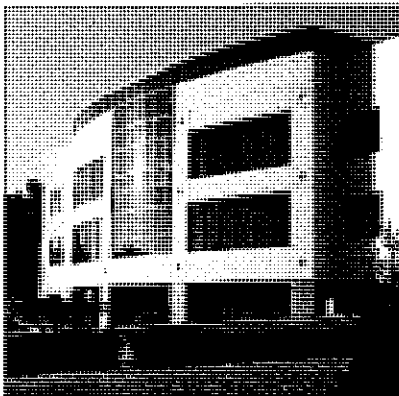
5th Floor - Conference Center



# West Virginia High Technology Consortium



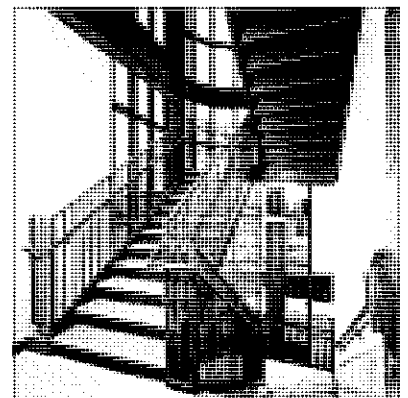
**West Virginia High  
Technology Consortium**  
Fairmont, West Virginia  
110 000 Square Feet



the flagship of the Mountain State's Flourishing technology sector and is the backbone for further infrastructure  
[www.wvhtc.org](http://www.wvhtc.org)

The West Virginia High Technology Consortium Foundation's 110,000 square foot center for high technology innovation is prepared to respond to the exponential growth of technology-oriented industry in West Virginia. The WVHTC Innovation Center is located in the Marion County Business and Technology Park, Fairmont, WV. The facility, situated on approximately 10 acres of a 26-acre parcel within the park, is adjacent to NASA's IV & V facility and is highly visible from Interstate 79.

The WVHTC Innovation Center facility houses the administration offices of the West Virginia High Technology Consortium, a non-profit corporation and world class high-technology incubator center providing assistance to high-technology member companies throughout the Mountain State and beyond. The center also facilitates major anchor tenants, headquarters for additional member companies and space to accommodate additional consortium firms as well as successful enterprises which have "graduated" from the incubator center.



# West Virginia High Technology Consortium



The Innovation Center's objective is to allow emerging high technology companies to benefit significantly from the facility's close proximity to NASA and the two major aerospace companies located in the immediate vicinity as well as other federal agencies maintaining a presence in the region and their prime contractors.

The economic landscape of north central West Virginia is experiencing a fast changing contour. Through this economic evolution, traditional mineral-extraction and manufacturing companies, once the mainstay of the area's economy, no longer sustain the employment base of past years. Supporting these industries are emerging companies whose mission is focused on product and service technologies for the federal government, commercial, and global markets.

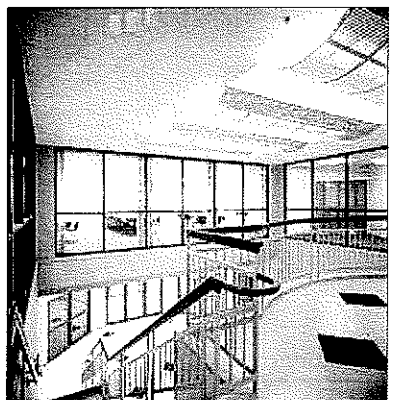
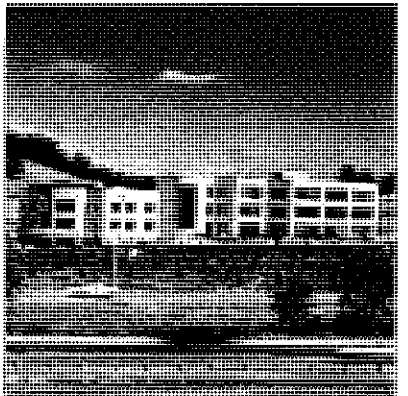
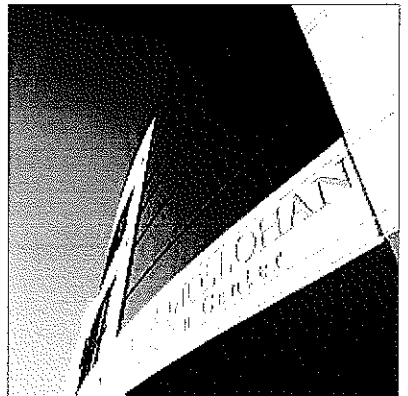
Local federal agencies include sophisticated technology based organizations like the Federal Bureau of Investigation, NASA, NIOSH, the Department of Defense, and the Department of Energy. The market needs for new technologies to serve these organizations are wide-ranging and include technology systems to serve the criminal justice information industry, software technologies to serve the experimental aircraft and space industries, energy and environmental technologies to serve the nation's power generation systems, and other specialized technology based services.

Congressman Alan B. Mollohan was the early advocate for businesses wishing to operate in this new high technology environment. In 1990, Congressman Mollohan created the West Virginia High Technology Consortium (WVHTC). The Consortium originally had six member companies, and has grown to an affiliate membership of over 150. The Consortium offers its member companies educational, promotional, and technical assistance.

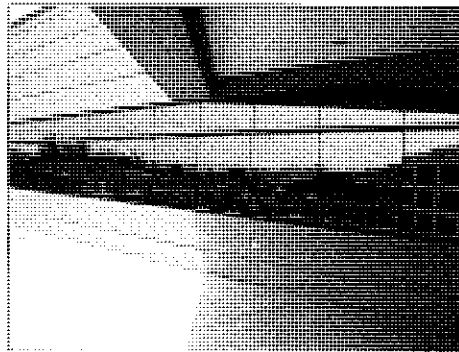
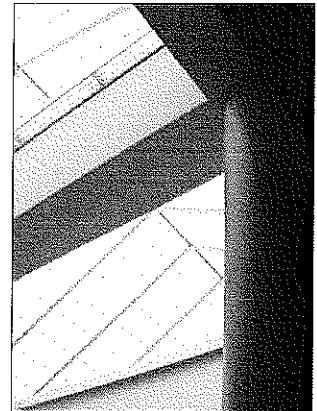
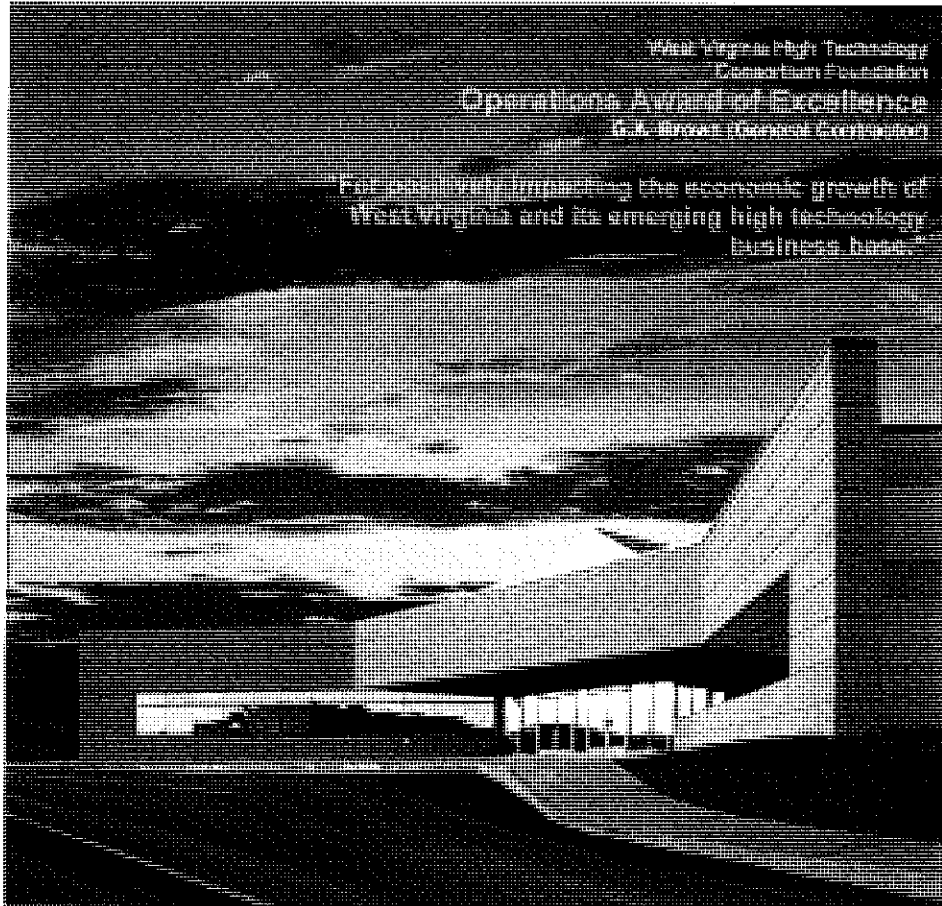
As the Consortium grew and became more diverse, the WVHTC Foundation was formed in 1993. The organization is dedicated to leading the development of high technology industries and research facilities in West Virginia through advanced technology based research, development, and educational initiatives.

In order for this technology transformation to succeed, the Foundation is coordinating the combined efforts of government agencies, local businesses, and academia. From Silicon Valley to Huntsville, from Austin to Boston - all communities where technology sectors have emerged - academic institutions, government agencies, and businesses working together have generated the most productive economic regions. This model provides the basis for WVHTC Foundation operations.

-Source: [www.wvhf.org](http://www.wvhf.org)



# West Virginia High Technology Consortium Training Center



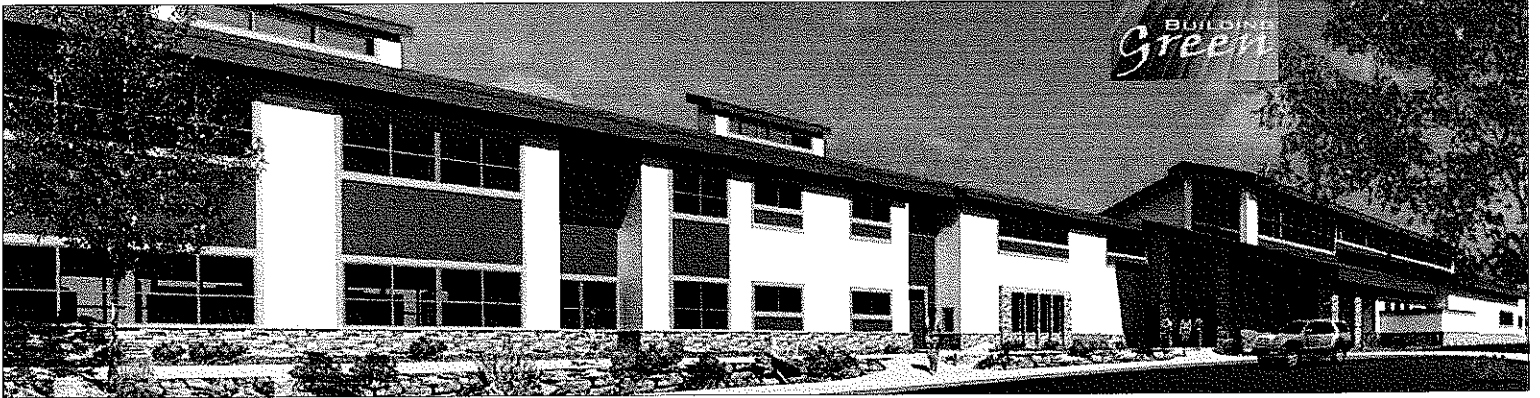
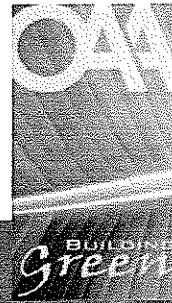
**West Virginia High  
Technology Consortium  
Training Center**  
Fairmont, West Virginia  
24 600 Square Feet

Occupants:

Fairmont State University

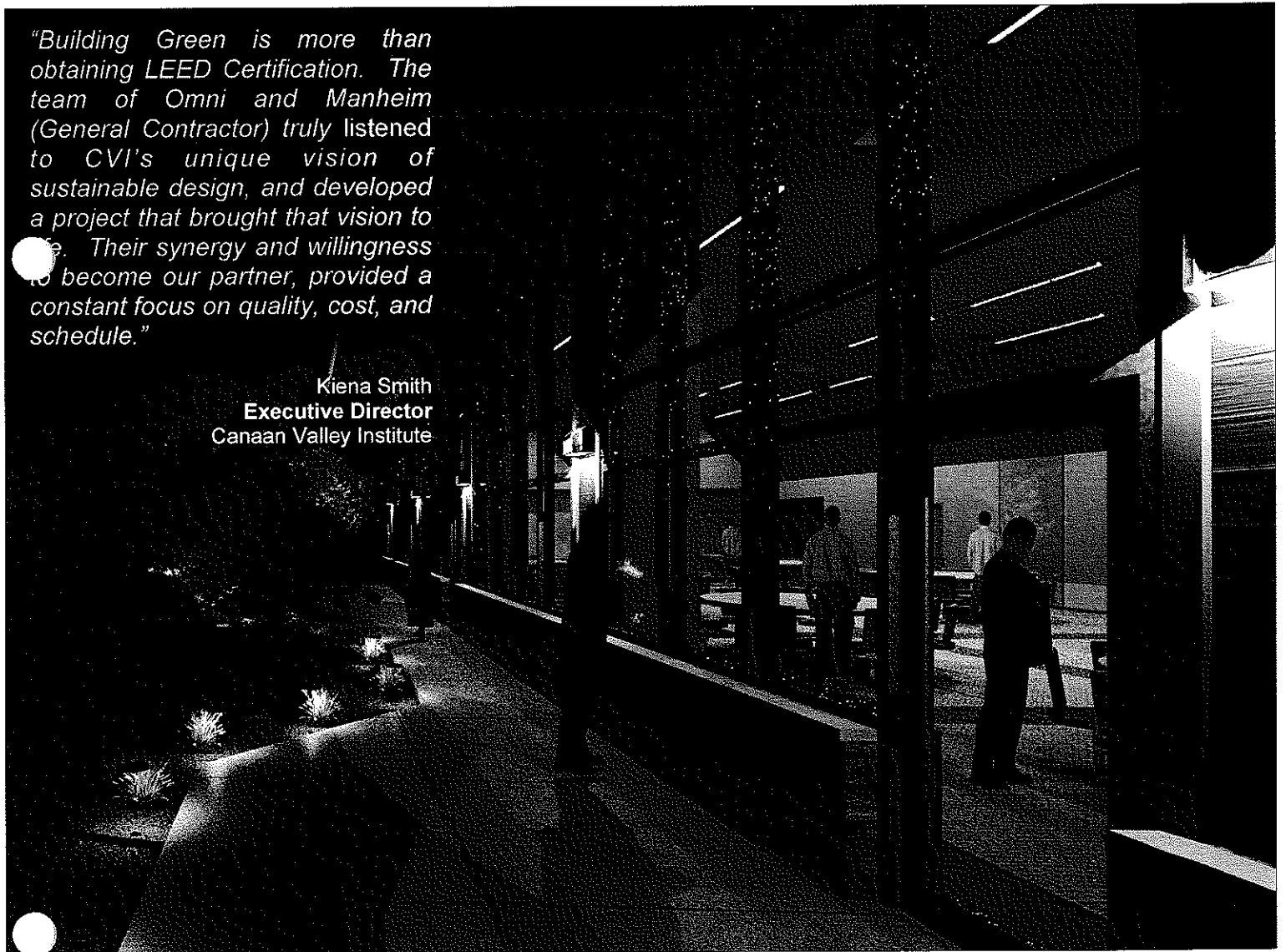


# Canaan Valley Institute Research and Education Facility



*"Building Green is more than obtaining LEED Certification. The team of Omni and Manheim (General Contractor) truly listened to CVI's unique vision of sustainable design, and developed a project that brought that vision to life. Their synergy and willingness to become our partner, provided a constant focus on quality, cost, and schedule."*

**Kiena Smith**  
**Executive Director**  
Canaan Valley Institute

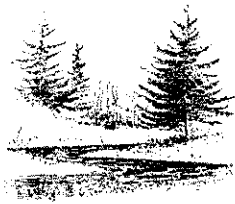


## Canaan Valley Institute Research and Education Facility

*"Canaan Valley Institute (CVI) is a nonprofit, non-advocacy organization that helps organizations, identify, solve, and implement solutions to serious water issues impacting their daily lives"*

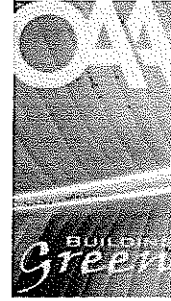
source: www.canaanvi.org

Canaan Valley Institutes new 28,866 square feet headquarters and education facility will be located outside Davis, WV and will serve as an education facility as well as office and laboratory space. In accordance with their mission, Omni was commissioned to develop a "green" building that will demonstrate environmentally friendly systems to visitors and its users. The \$6 million facility utilizes a number of "green" technologies, including micro-turbines to generate all of the buildings electricity on site, a Living Machine which will recycle all of the building's waste water, natural ventilation, a green roof, and rain water collection ponds. The design team anticipates Silver LEED™ (Leadership in Energy and Environmental Design) Certification.

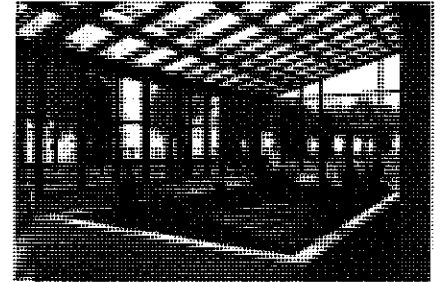


## Canaan Valley Institute

WORKING FOR THE SUSTAINABILITY OF THE MID-ATLANTIC HIGHLANDS SINCE 1797



LEED Certification:  
Anticipated Silver Rating



**Canaan Valley Institute  
Research and Education Facility**  
Davis West Virginia

Estimated Construction Cost: \$6 000 000  
28 866 Square Feet



LEED Certification:  
Anticipated Silver Rating

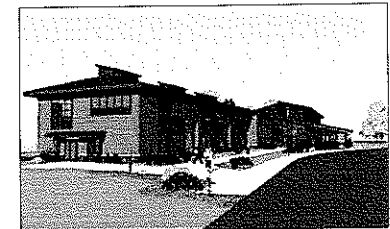
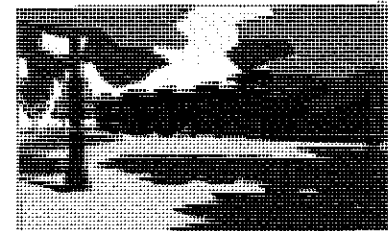
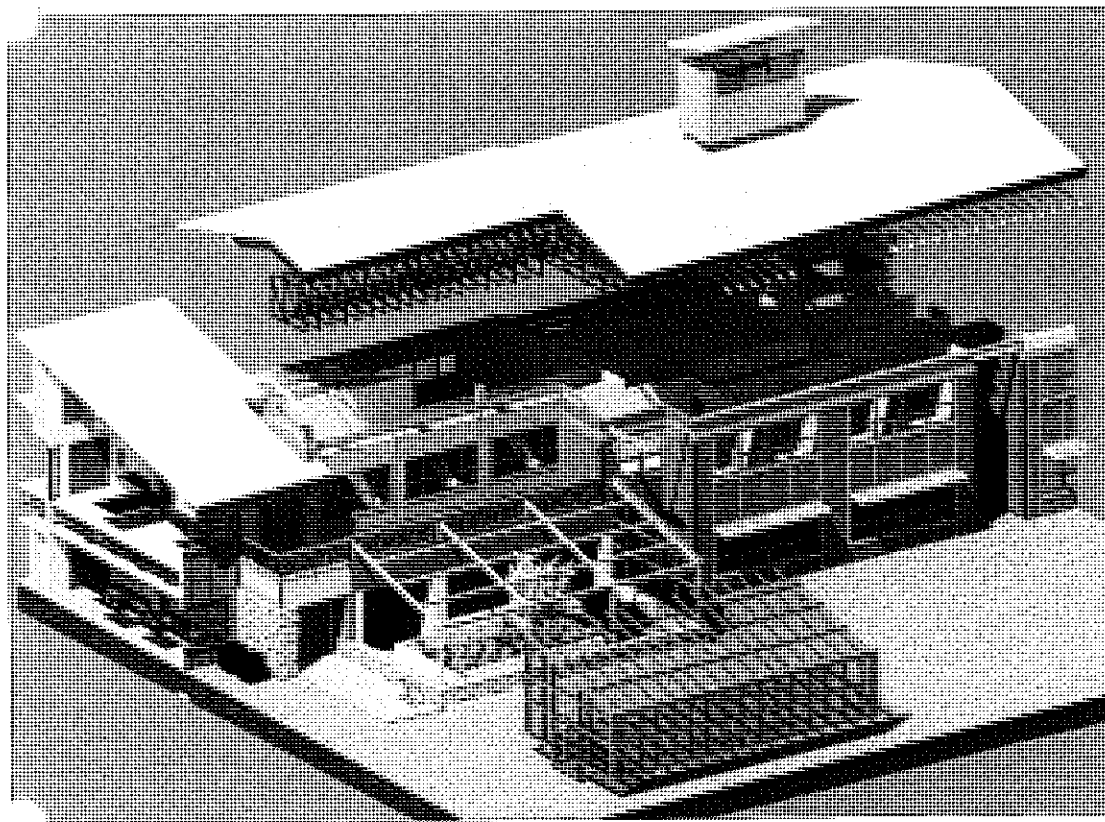
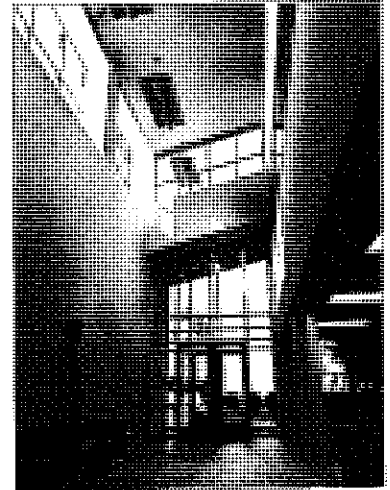
- Micro-turbines
- Living Machine
- Natural ventilation
- Green roof
- Rain water collection ponds



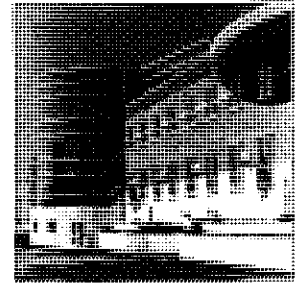
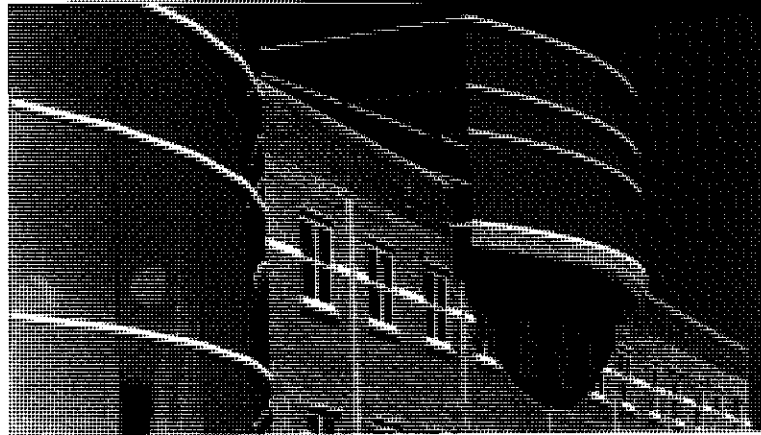
# Canaan Valley Institute Research and Education Facility



LEED Certification:  
Anticipated Silver Rating



## Mylan Pharmaceuticals Executive Offices



### Mylan Pharmaceuticals Executive Offices Addition

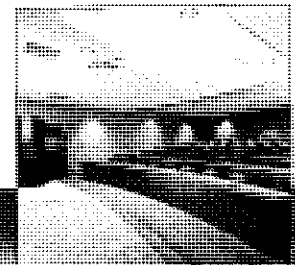
Morgantown, West Virginia  
Total Project - 84,860 S.F.  
Parking Level - 21,215 S.F.  
Three Floors - 63,645 S.F.



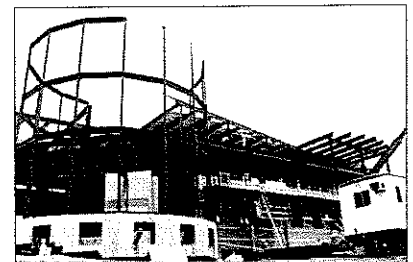
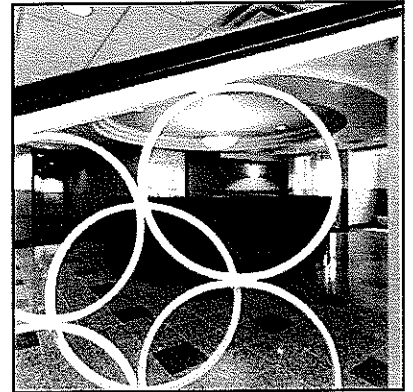
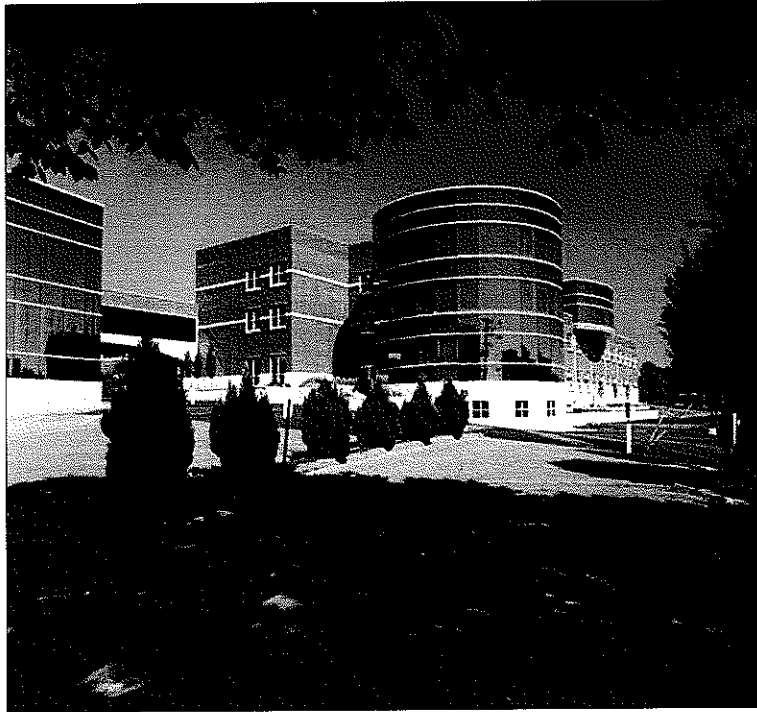
The Omni Associates designed a 63,000 SF four story addition for the existing Mylan Pharmaceuticals Plant. The project was "fast track" design meaning the construction drawings were made during the actual construction. The Omni Associates stayed ahead of the Contractor and enabled the project to be completed on time and within the budget.

The addition contains executive office and board room, training and conference rooms, cafeteria and kitchen, employee locker rooms, research and development area and storage warehouse space.

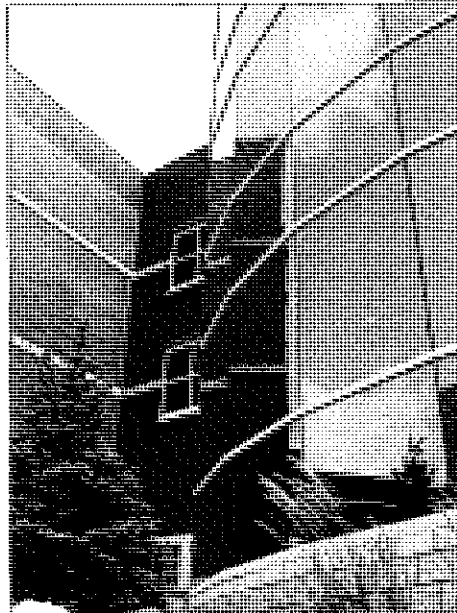
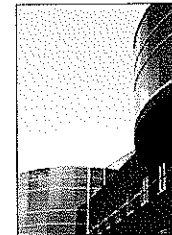
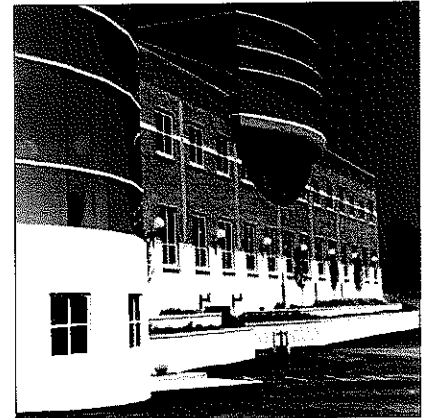
- ◆ Three Stories with lower level Parking Garage
- ◆ Skywalk connecting second floor to existing Executive Offices
- ◆ Outdoor Dining/ Meeting Balcony on Third Floor



# Mylan Pharmaceuticals Executive Offices



# Mylan Pharmaceuticals Executive Offices



# Mylan Pharmaceuticals Executive Offices

## **Mylan Pharmaceuticals Executive Offices**

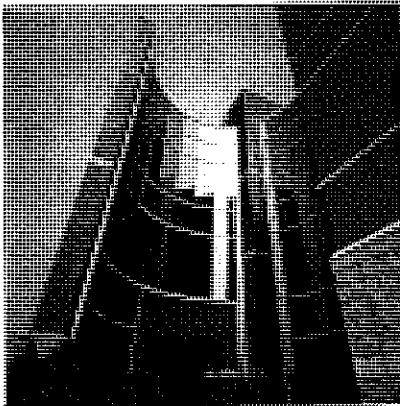
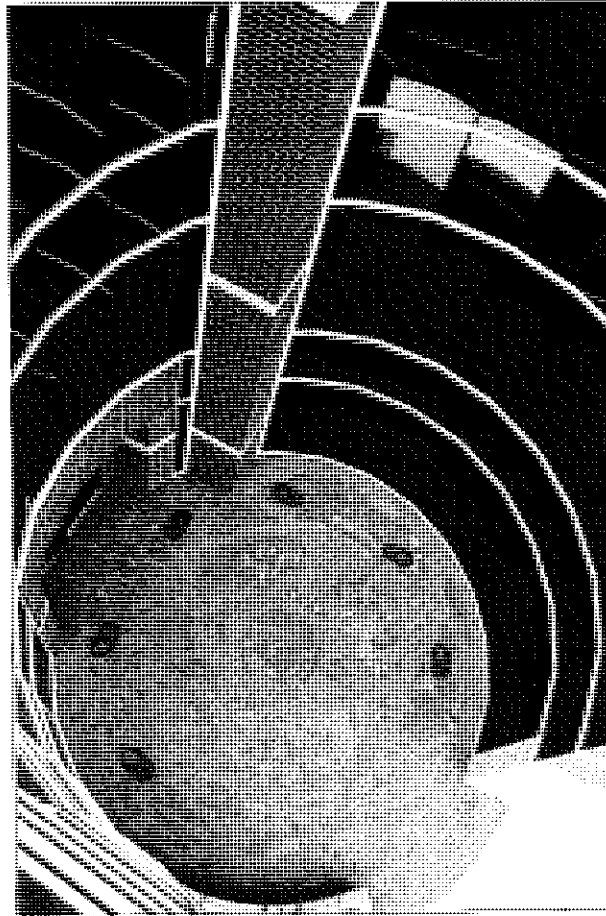
Morgantown, West Virginia  
Offices: 54,000 S.F.  
Warehouse: 9,000 S.F.

### **Honorable Mention: Excellence In Design**

West Virginia Society of The  
American Institute of Architects

The Omni Associates designed a 63,000 SF four story addition for the existing Mylan Pharmaceuticals Plant. The project was "fast track" design meaning the construction drawings were made during the actual construction. The Omni Associates stayed ahead of the Contractor and enabled the project to be completed on time and within the budget.

The addition contains executive office and board room, training and conference rooms, cafeteria and kitchen, employee locker rooms, research and development area and storage warehouse space.



# Mylan Pharmaceuticals North Expansion



Mylan Pharmaceuticals is the largest generic drug manufacturer in the United States and experienced the need to increase productivity. Mylan Pharmaceuticals planned a major expansion to their manufacturing facility in Morgantown, WV. The 438,300 square foot manufacturing area and the 84,200 square foot high volume warehouse project more than doubled the existing area of the current building complex and allowed for nearly a quadrupling of production capacity.



West Virginia  
Chapter

## 2007 Excellence in Construction Award

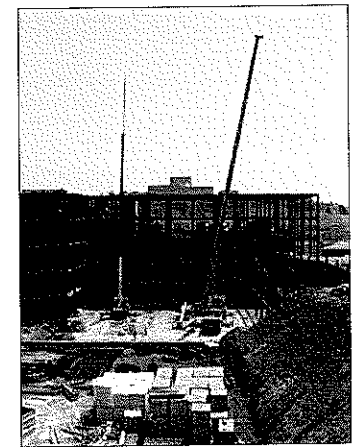
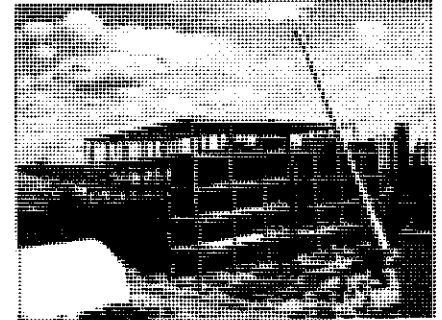
Category:  
Mega Projects:  
More than \$100 Million

**MARCH-WESTIN CO.**  
(General Contractor)

The overall expansion created a new flow of material and process that not only increased production capacity but reorganized the process and made for better work flow. The new work involves new receiving and shipping docks with associated high volume warehousing. The manufacturing steps from raw material to finish product including sampling, weighing, blending, tableting and packaging are all included. Specialized processes such as fluidization, capsulation and granulation are organized into the work flow as well. Quality control laboratories and operating procedure rooms were designed to be integral with the manufacturing.

Due to the significant size of this expansion, other supports and infrastructures needed to be constructed into the planning. A 512 space multi-level parking garage was constructed to provide to the additional man-power that comes with additional production. This garage is connected to the plant by two bridges to allow better flow of personnel. A new fire water loop with associated fire pumps and reserve water tanks are implemented to maintain fire protection. The creation of new access roads and entrances into the building were part of the design to make the site function to a higher capacity. Specialized high capacity elevators and a five story escalator design will allow the flow of material and personnel to move at an efficient pace.

The five-story addition was started in August of 2002 and was completed in the fall of 2006 as part of a design-build process. The design included the ability to phase various portions of the completion to allow for installing, validating and utilizing manufacturing equipment in stages. This provided immediate production needs while creating room for future growth and implementation of new equipment. The increased staffing needs were met with new training rooms, locker spaces and a 300 seat cafeteria including indoor and outdoor dining space.



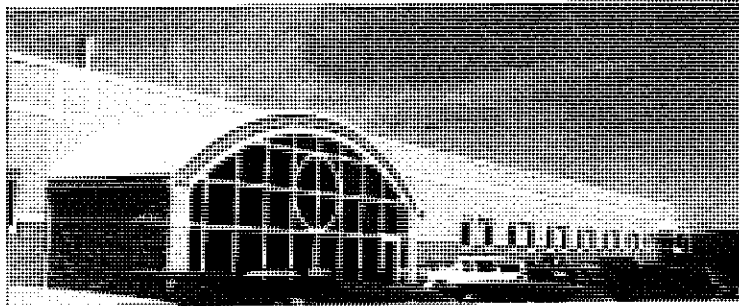
### **Mylan Pharmaceutical North Expansion** Morgantown, West Virginia

Total Project: 513,746 sf  
Estimated Construction Cost: \$90 Million





# Mylan Pharmaceuticals Research & Development Center



Mylan Pharmaceuticals 14.8 million dollar Research and Development facility was constructed to help the expanding generic drug manufacturer grow by moving many non production functions into a separate state-of-the-art building. The existing plant was in need of more room but was unable to grow due to its confined site. The new building was sited several miles away on a sloping riverside area. Along with research and laboratory programs, the new building holds the sales and marketing teams, the accounting and information system departments and an expansive warehouse.

The site, due to its severe slope to the river, had to be excavated down twenty feet to create enough area for the 153,000 square foot building; the footprint being nearly one acre. The main entrance is located on the Third floor. Functionally, the building is divided by its program. The upper floor has research labs (Pharmacokinetics, Analytical Chemistry and Material Management) and a prototype production plant to manufacture samples of new research. Teleconference and executive office space keep the research members near the work at hand as well as Mylan's other facilities and offices.

The Second floor is shared by Information Systems and Accounting. This floor also contains the building's lunch room and has the company's wellness center, good health being a company mission. The First floor has executive offices and a training center for sales and marketing. The bulk of this lower floor is designated for a materials warehouse. Raw materials and equipment for the research facility above is received, tested and quarantined.

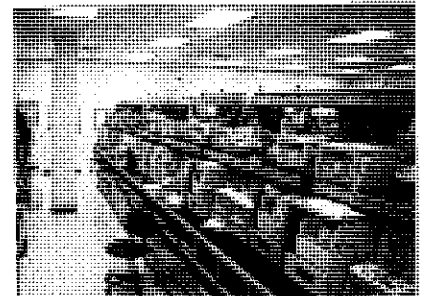
All of the laboratories, production rooms and offices are design and equipped with the latest technologies from computer systems to room finishes. The Research and Development Center has enabled Mylan Pharmaceuticals to create new products and expand its manufacturing.



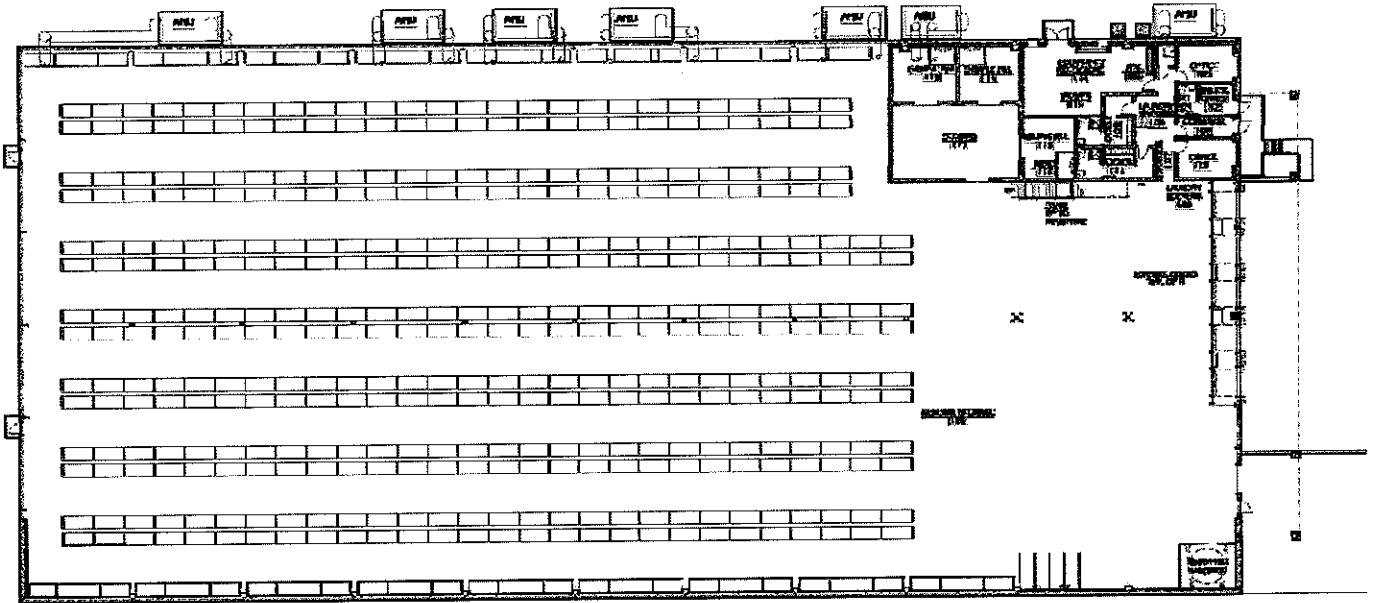
## **Mylan Pharmaceuticals Research &**

## **Development Center**

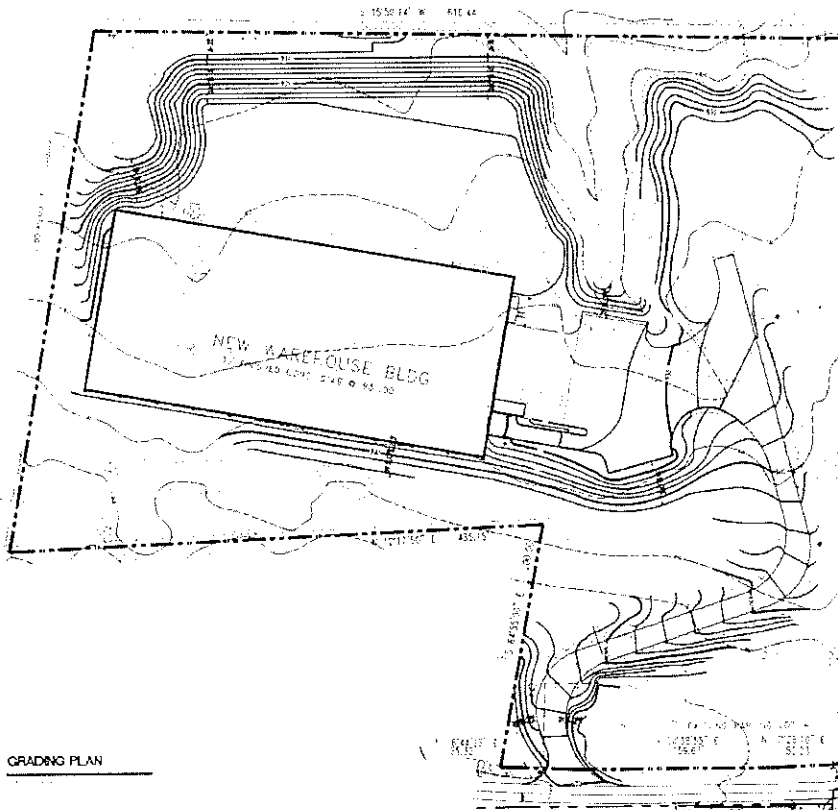
Morgantown West Virginia  
\$14.8 Million - Design Build  
153,000 Square Feet  
Design Build Construction



# Mylan Pharmaceuticals Warehouse



FLOOR PLAN - GROUND LEVEL



GRADING PLAN

**Mylan Pharmaceuticals Warehouse**  
Morgantown West Virginia  
Construction Cost: \$3 200,000

1st Floor: 49,710 Square Feet  
Mezzanine: 3 641 Square Feet



# CDC / NIOSH National Institute for Occupational Safety and Health



## CDC / NIOSH National Institute for Occupational Safety and Health

Morgantown, West Virginia  
Pittsburgh, Pennsylvania

5-year Open-ended Project

Omni Associates – Architects was selected from among many national firms for an open-ended agreement to design laboratory additions and renovations for the Morgantown, WV and Pittsburgh, PA CDC/NIOSH facilities. This was part of the Federal “Set-Aside” procurement process for Small Business Concerns. Omni worked jointly with Karlsberger and H.F. Lenz to provide comprehensive laboratory and Mechanical / Electrical / Plumbing Engineering. Omni Associates was required to perform a minimum of 50 percent of the work as a part of the contract agreement.

The 5 year agreement was implemented through individual work scope assignments that entailed on-site evaluations, program feasibility, construction documents, and construction administration. Omni Associates’ close proximity to both sites made the implementation of design criteria easier to coordinate with the CDC/NIOSH personnel.



# City of Fairmont, West Virginia Public Safety Building

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The City of Fairmont selected The Omni Associates - Architects to design the new Public Safety Building. The 36,000 square foot new facility will house the Fire Administration and Central Station of the Fairmont Fire Department and the entire Fairmont Police Department. The design service includes the development of a building program and the selection of the building site. The selection of the site involves a site analysis study to determine the feasibility of utilizing an existing structure verse a new structure on various sites recommended by The Omni Associates.

The Building Program involves in-depth functional and spatial study of all component spaces. This requires extensive discussion with the Police Chief, Fire Chief, and Department Heads as well as various Policemen and Firemen. Many considerations must be investigated and prioritized such as design flexibility, public image, impact on downtown, maneuverability of fire apparatus, public zones, secure zones, and the image and morale of the officers and firemen. These considerations along with budget cost controls, construction materials and schedule combine to complete the total building design.

## **Fairmont Public Safety Building**

City of Fairmont  
Marion County  
Fairmont, West Virginia  
36 000 Square Feet

## ***Introduction***

Capitol Engineering, Inc. (CEI) proposes to perform civil engineering and surveying services for the West Virginia National Guard to develop engineering plans and specifications for the USPFO. We have experience planning, designing, specifying, preparing contract documents, bidding and performing contract administration on many types of military facilities including Readiness Centers, Airfields, Training Areas and Ranges. Our experience and resources give us the ability to handle both complex and routine projects.

### ***Why CEI?***

CEI offers the highly specialized experience, attention to minute detail, and the unparalleled level of personal client support provided by a small boutique firm. We are particularly attractive because:

- Our management, engineering and professional staff has a combined total of over 120 years of experience – much of it acquired while working on military facilities.
- Staff has participation and completion of 20 National Guard projects in West Virginia.
- Management team has 30+ years and over 60 projects total specialized experience providing timely, cost effective construction documents for military facilities.
- Experience to successfully handle all design situations and problem types anticipated to occur under this contract.
- Construction and Facilities Maintenance Office satisfaction with prior work/projects performed by key staff members.

## ***CEI Overview***

Capitol Engineering is a locally owned consulting engineering firm founded in 1999. CEI has steadily grown since its inception with three employees. CEI possesses in-house services in civil, environmental and mining engineering, contract administration, and surveying and mapping. Our staff is made up of two Professional Engineers, a Professional Surveyor, Project Engineers and Scientists, CAD Operators, Technicians, and administrative personnel. Our client base is comprised of contractors, architects, engineers, developers, private industry, and federal and state agencies. A complete list of services is as follows:

### **Civil Engineering**

*Geotechnical Engineering  
Project Management  
Rail Siding Design  
Roadway Design  
Site Development & Grading Plans  
Siting Studies  
Slope Stability Analysis  
Stormwater Systems  
Wastewater Treatment Systems*

### **Environmental Engineering**

*Environmental Due Diligence  
Environmental Site Reviews  
Erosion & Sedimentation Control  
NPDES, GPCC, SPCC Plans  
Solid Waste & Landfill Design  
Stormwater Management Plans*

### **Construction Administration**

*Bid Analysis & Management  
Construction Observation  
Damage Settlement  
Submittal Review*

### **Surveying & Mapping**

*Control Surveys  
Floodplain Studies  
GPS Surveys  
Mineral Reserve Surveys  
Planimetric Surveys  
Quantity Determination Surveys  
River & Lake Soundings  
Topographic Survey*

### **Mining Engineering**

*Abandoned Mine Land Reclamation  
Acid Mine Drainage Passive Treatment  
Geologic & Hydrologic Evaluations  
Mine-Related Subsidence Investigations  
Mining Permits, Modifications, & IBR's  
Reclamation Liability Audits  
Surface Mine Surveying & Mapping*

**ROBERT M. FULLER, P.E.**  
**Principal, Capitol Engineering, Inc.**

**QUALIFICATIONS**

Project Manager with twenty (20) years of experience with site investigation, planning, design and contract administration services on military, site development and mine reclamation projects. Mr. Fuller has been fully responsible technically, managerially and administratively for the planning, investigation, design and contract document preparation for over seventy (70) projects in the State of West Virginia. Mr. Fuller has served as Associate Professor of Civil Engineering Technology at West Virginia University Institute of Technology on a full-time, part-time and adjunct basis.

**CERTIFICATIONS**

Registered Professional Engineer – WV, PA, OH  
OSHA 40-Hour Health and Safety Training  
OSHA Supervisor Training

**EDUCATIONAL BACKGROUND**

M.S. Engineering, Marshall University Graduate College, 1997  
B.S. Engineering Technology, West Virginia Institute of Technology, 1989

**PROFESSIONAL EXPERIENCE**

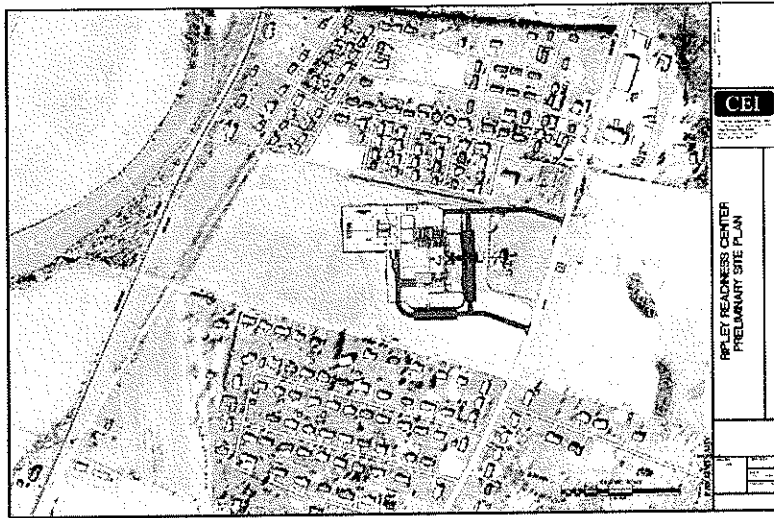
Mr. Fuller was principal or project manager for the following West Virginia Army National Guard Projects completed by Capitol Engineering, Inc.. Brief descriptions of the projects with asterisks are provided elsewhere in this proposal.

- Ripley Armed Forces Reserve Center\*
- Fairmont Armed Forces Reserve Center\*
- Elkins Armed Forces Reserve Center\*
- Glen Jean Armed Forces Reserve Center\*
- Summersville Readiness Center\*
- AASF #1 Apron Expansion/Rehabilitation and Taxiway Replacement\*
- Joint Interagency Training and Education Center
- Lewisburg Readiness Center
- Camp Dawson Runway Extension
- AASF #1 Taxiway Repair
- Camp Dawson Range Renovations
- Williamson Armory Wash Pad and Military Parking
- Engineering consultant for the Center for National Response/Ross Property Conceptual Site Layout
- Eleanor AFRC & CSMS Utility Location and Property Staking
- Camp Dawson Qualification Training Range Preliminary Design Drawings
- Eleanor CHP Rail Spur Layout
- JISOTF Initial Planning Study

**PROFESSIONAL AFFILIATIONS**

Society of American Military Engineers  
American Society of Civil Engineers  
American Institute of Architects  
Construction Specifications Institute

# PROJECT EXPERIENCE



## Project Title

Ripley  
Armed Forces Reserve Center  
Site and Civil Design

## Site Location

Millwood  
Jackson County, WV

## Client

ZMM, Inc  
Architects and Engineers  
Charleston, WV

## Project Description

The Ripley Armed Forces Reserve Center Project includes a Readiness Center and an Organizational Maintenance Shop (OMS). The complex consists of over 65,000 square feet of heated space, additional unheated storage and approximately 23,000 square yards of rigid and flexible paving. The new facility occupies the 350 acre tract formerly owned by the Order of the Eastern Star in Millwood, Jackson County. Capitol Engineering, Inc. (CEI) is performing all of the site investigation and site/civil design aspects of the project, as well as construction administration for the sitework.

The project included the following major design elements:

1. Utilities
  - a. Water line extension
  - b. Sanitary sewer system
  - c. Gas line extension
  - d. Electric and telephone service
2. Access roads and vehicle facilities
  - a. 11,800 SY Concrete paving
  - b. 15,000 SY Asphalt paving
  - c. Vehicle wash facility
  - d. Multiple secure motor pool areas
  - e. Multiple access roads and POV parking lots
3. General site features
  - a. Earthwork and erosion control
  - b. Storm drainage system and detention facility
  - c. Security fencing/Force protection measures
  - d. Outdoor training area

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Utility and stormwater easement acquisition assistance



# PROJECT EXPERIENCE



## Project Title

Fairmont  
Armed Forces Reserve Center  
Site and Civil Design

## Site Location

Fairmont, Marion County, WV

## Client

Omni Associates  
Fairmont, WV

## Project Description

The Fairmont Armed Forces Reserve Center Project includes a Readiness Center, civic arena, and a unit maintenance shop. The complex consists of over 70,000 square feet of heated space, additional unheated storage and approximately 31,000 square yards of rigid and flexible paving. The facility occupies a 35 acre tract in the proposed Suncrest Development of East Fairmont. Capitol Engineering, Inc (CEI) performed all of the site investigation and site/civil design aspects of the project.

The project included the following major design elements:

1. Utilities
  - a. Water line extension
  - b. Sanitary sewer system extension
  - c. Gas line relocation
  - d. Electric and telephone service
2. Access roads and vehicle facilities
  - a. 14,400 SY concrete paving
  - b. 27,000 SY asphalt paving
  - c. Vehicle wash facility
  - d. Multiple secure motor pool areas
  - e. Multiple access roads and POV parking lots
3. General site features
  - a. Earthwork and erosion control
  - b. Storm drainage system and multiple detention facilities
  - c. Security fencing/force protection measures
  - d. Outdoor training area

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Preliminary subsurface investigation/constructability study
4. Geotechnical investigation and laboratory testing
5. Utility, grading, and stormwater easement acquisition assistance

# PROJECT EXPERIENCE



**Project Title**  
Summersville Readiness Center  
Site and Civil Design

**Site Location**  
Summersville, Nicholas County, WV

**Client**  
S E M Architects  
Columbus, OH

## **Project Description**

The Summersville Readiness Center Project included a Readiness Center, a Civic Arena and Conference Center, and a unit maintenance shop. The complex consists of over 70,000 square feet of heated space, additional unheated storage and approximately 21,000 square yards of rigid and flexible paving. The facility occupies a 35-acre tract behind the Northside Center in Summersville, Nicholas County. Capitol Engineering, Inc. (CEI) was selected to perform all aspects of the site investigation. Capitol Engineering, Inc. (CEI) performed all of the site investigation and site/civil design aspects of the project.

The project includes the following major design elements:

1. Utilities
  - a. Water line extension
  - b. Sanitary sewer system
  - c. Existing gas line relocation
  - d. Gas, electric, telephone and cable television service
2. Access roads and vehicle facilities
  - a. 11,000 SY Concrete paving
  - b. 10,000 SY Asphalt paving
  - c. Vehicle wash facility
  - d. Fuel storage and dispensing system
  - e. Multiple secure motor pool areas
  - f. Multiple POV parking lots
  - g. Multiple access roads
3. General site features
  - a. Earthwork and erosion control
  - b. Storm drainage system and detention facility
  - c. Security fencing/Force protection measures
  - d. Outdoor training area

The project included the following site investigation elements:

1. Preliminary engineering, planning, and field reconnaissance
2. Surveying and mapping
3. Geotechnical investigation and laboratory testing
4. Easement and right-of-way acquisition

At Tower Engineering, our goal is not to just meet our clients' needs ...but to exceed their expectations.

**Tower Engineering** has been providing innovative mechanical and electrical engineering solutions and unparalleled client service since 1931

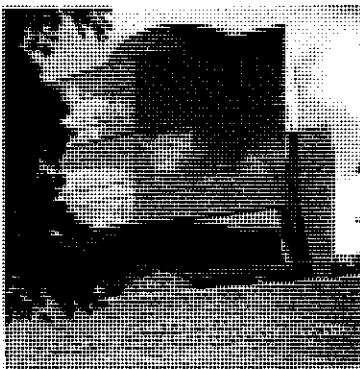
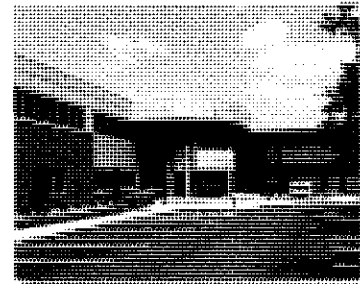
Primary markets of the firm include educational, health care, environments for the aging, and commercial renovations and new construction

Tower Engineering's highly-trained staff of project managers, designers, and technical support personnel is capable of providing consulting services for every type of project - from a small, single-family residence to a high tech research facility incorporating redundant mechanical and electrical systems, DDC energy management and thermal storage

Our engineers utilize state-of-the-art computer software programs for the design of lighting, electrical power and mechanical systems. Lighting analysis includes point-by-point calculations, ESI analysis, exterior lighting analysis, and life cycle cost comparisons. Electrical power analysis includes fault current and load flow analysis.

Mechanical analysis includes energy economy analysis, thermal storage analysis, heating and cooling load calculations, refrigerant piping design, water piping design, and ductwork design

Our professional staff utilizes computer selection of air handling units, coils, pumps, terminal devices, fans, cooling towers, chillers, heat exchangers, kitchen hoods, hydronic and steam specialties, humidification equipment and heat recovery equipment



Tower Engineering

**TOWER**  
ENGINEERING

115 Evergreen Heights Drive  
Suite 400  
Pittsburgh, Pennsylvania 15229  
(412)931-8888  
Fax (412) 939-2525

## Specific Engineering Services

### HVAC

- Heating and cooling system design
- Ventilation system design
- Building automation systems
- Control systems and energy monitoring
- Geothermal heat pumps
- Heat recovery systems
- Kitchen and laboratory exhaust systems
- Smoke evacuation systems
- Computer room environmental control systems
- Building commissioning services

### Electrical

- Interior and exterior lighting design and studies
- Lighting controls
- Primary and secondary voltage power distribution systems
- Fire detection and alarm systems
- Computer data and power systems
- Uninterruptible power supply systems
- Reinforced and masking sound systems
- Lightning protection systems
- Fault current studies
- System over-current protection coordination

### Telecommunications

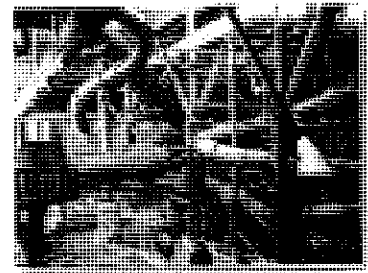
- Voice communication systems
- Data network systems

### Plumbing

- Water resource efficiency analysis
- Sanitary drainage systems
- Storm water management
- Domestic water systems
- Waste water treatment systems
- Hospital and laboratory piping systems
- Fuel oil piping systems
- Irrigation systems

### Fire Protection

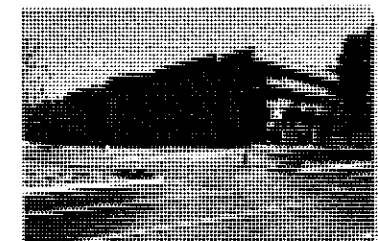
- Standpipe and sprinkler systems
- Fire protection systems



## Our Design Experience

- Agricultural & Science Buildings
- Airport Terminals & Hangers
- Athletic Facilities & Stadiums
- Auditoriums & Theaters
- Call Centers
- Classrooms
- Clean Rooms & Special Environments
- Data Centers
- Dining Halls
- Dormitory Buildings
- Environments for the Aging
- High-Rise & Low-Rise Office Buildings
- Historic Preservation & Adaptive Reuse
- Hotels/Motels
- Judicial & Courtroom Facilities
- Manufacturing & Industrial
- Movie Theaters
- Municipal Complexes

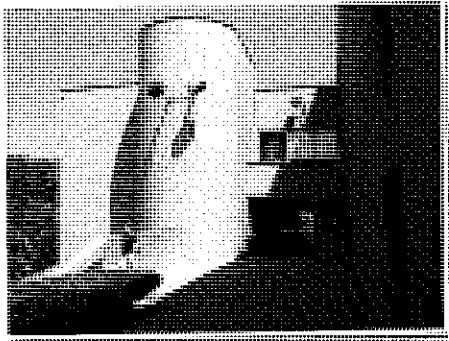
- Museums, Galleries & Libraries
- Nuclear Facilities
- Outpatient & Hospital Facilities
- Parking Garages
- Postal Facilities
- Prisons & Correctional Institutions
- Public Safety Buildings
- Recreational Facilities
- Religious Facilities
- Research/Laboratories
- Residential & Multi-Unit Housing
- Retail & Shopping Centers
- Schools
- Student Unions
- TV/Radio Stations
- Vehicle Maintenance Facilities
- Warehouses & Depots



Tower Engineering maintains full CAD capabilities utilizing AutoCAD Release 2008, which is compatible with most micro and mini based computer systems. Our AutoCAD software has been modified in-house to further enhance productivity per discipline. Firm-wide CAD standards are also in place to ensure uniformity.

Tower Engineering has a long history of providing engineering services in West Virginia. For more than five decades, educational, commercial and institutional facilities owners have depended on us to engineer mechanical and electrical systems which are effective, as well as efficient

During the past two years alone, 34% of our project workload has been in West Virginia. Currently, Tower Engineering is providing mechanical and electrical systems engineering for boards of education in five counties, as well as for West Virginia University, Fairmont State University, the Department of Energy, Canaan Valley Institute, West Virginia Army National Guard and other clients throughout the state.

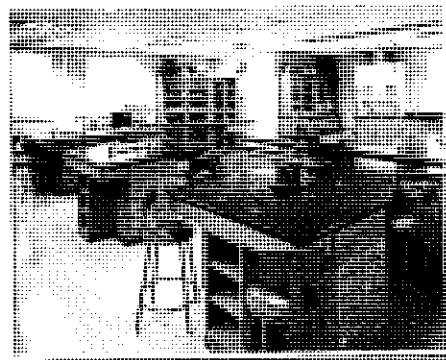


### Recent Projects in West Virginia Have Included:

- Airport Renovations
- Research/Laboratories
- K-12 Schools
- Commercial Offices
- Community Centers
- Retail Buildings
- Stadiums & Athletic Buildings
- Military Training Facilities and other Government-Owned Facilities
- Nursing Homes
- Light Industrial and Warehouses



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Phone (412)931-8888  
Fax (412)939-2525



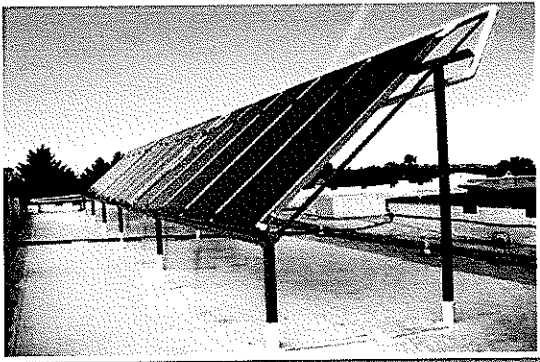
Engineering West Virginia



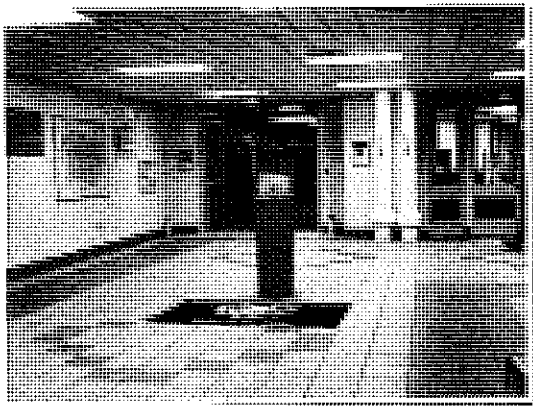
Working together with our clients, Tower Engineering takes great pride in implementing environmentally conscious solutions to building issues. To sustain our environment, we design building systems that use material, energy and water resources efficiently, minimize site impacts and address health issues relating to the indoor environment.

Over the last decade, various groups have worked to develop strategies to promote and facilitate the design of sustainable, high performance buildings. One such organization, The **U.S. Green Building Council**, has created a nationally recognized certification process for evaluating sustainable and high performance buildings, a program called "**Leadership in Energy and Environmental Design**," commonly known by its acronym "**LEED**." In addition to being a member of the U.S. Green Building Council (USGBC), Tower Engineering's staff includes LEED accredited professionals.

The LEED certification process rates the levels of sustainability achieved in a building: LEED Certified, LEED Silver, LEED Gold, and the highest rating, LEED platinum. Awards are based upon achieving "sustainability points" in the areas of Site, Water, Energy & Atmosphere, Materials and Resources, Indoor Environmental Quality, and Innovation & Design Process.



Our LEED design experience includes the Felician Sister's Motherhouse (left) which received a Gold rating and J S Wilson Middle school (below left) which was designed to a LEED Silver rating and included such sustainable features as geothermal heating and cooling.



**TOWER**  
ENGINEERING

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LEED™ Rated Design



### **Felician Sisters' Motherhouse Coraopolis, Pennsylvania**

- Super-high efficiency modular boilers to maintain 60 degrees F low-end water temperature.
- Carefully sized individual heat pumps to provide adequate compressor runtimes to ensure summer dehumidification and cooling without short cycling.
- Specification of premium efficient motors for pumps and larger RTU fans.
- Specification of Ventilation Heat Pump Rooftop Units with factory-installed energy recovery sections.
- Utilization of carbon dioxide sensors to reduce outside air quantities in multi-use spaces when not fully occupied.
- Specification of fully automated temperature controls system to provide computerized monitoring and control of mechanical equipment for maximum energy savings and systems optimization.
- Engineered lighting levels to exceed ASHRAE 90.1-1999 using the most efficient lamp and fixture combinations.

***The Project Team has achieved a  
LEED™ Gold rating.***

### LEED Project Experience:

- Felician Sisters Motherhouse (Gold)
- Three Rivers Rowing Association Boat Storage & Maintenance Building (Certified)
- Carnegie Mellon University Henderson House Renovations (Silver)
- Carnegie Mellon University Posner Conference Center Rare Books Room (Certified)
- Pittsburgh Children's Museum Renovation & Expansion (Silver)
- Regional Learning Alliance at Cranberry Woods (Silver)
- Berkeley County Board of Education New Spring Mills Primary School (Silver)
- Canaan Valley Institute New Headquarters/Education Building (Certified)
- Department of Energy Morgantown Record Storage (Gold)

The following projects were designed in accordance with the LEED rating system, but ultimately did not pursue a LEED certification:

- Millcreek School District J S. Wilson Middle
- Corry School District New Elementary School
- Holy Sepulcher Parish New Church
- National Guard Stryker Center
- North Hills School District McIntyre & Highcliff Elementary Schools
- Pine Richland School District New Upper Elementary School
- Pine Township Recreation Center
- Pittsburgh Children's Home
- Sisters of St Joseph New Office Building
- Southwest Butler County YMCA (Cranberry)
- Upper St Clair Community Center
- Watson Institute, Craig Academy



**Tower Engineering** has provided mechanical and electrical consulting engineering services for numerous Government-owned facilities. With seven decades of experience, our firm knows the importance of meeting the client's needs without exceeding the project's budget.

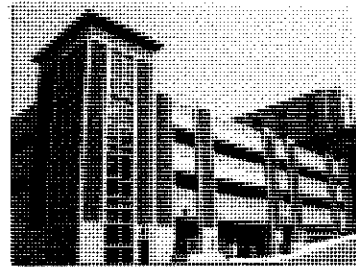
Thoroughly familiar with current government and military standards, our firm has provided engineering services for the following government-owned facilities:

### **Federal Government**

William S Moorhead Federal Office Building, PA  
Department of Labor Job Corps Center, PA  
Butler VA Hospital, PA  
Department of Labor Job Corps Medical Center, PA  
Army Corps of Engineers Lab, PA  
Army Corps of Engineers Neville Island, PA  
National Guard Readiness Center Connellsville, PA  
National Guard Stryker Center Cambridge Springs, PA  
National Guard Fairmont Readiness Center, WV  
Army Reserve Center Jane Lew, WV  
Army Reserve Center Clarksburg, WV  
IRS Liberty Center Tenant Fitup, PA  
INS Application Support Center, PA  
VA Medical Center Pittsburgh, PA (multiple)  
Department of Energy Records Storage, WV  
Department of Agriculture Lab, PA  
National Geospace Agency St. Louis, MO

### **State Government**

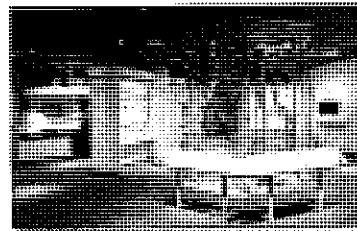
State Police Building, PA  
Capitol Building Welcome Center, PA  
Tygart Lake State Park Lodge Addition, WV  
Twin Falls Resort State Park Addition, WV  
DER Regional Offices, PA  
DER Lab Renovation, PA  
Ebensburg Center HVAC Renovation, PA  
Buckingham Protection Custody Facility, PA  
HRS Computer Room, PA  
Capitol Science & Cultural Center, WV  
Scotland School for Veterans Children, PA



New Fairmont, WV Parking Garage



Mt. Lebanon, PA Transportation Center



PA Capitol Welcome Center

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Government-Owned Facilities

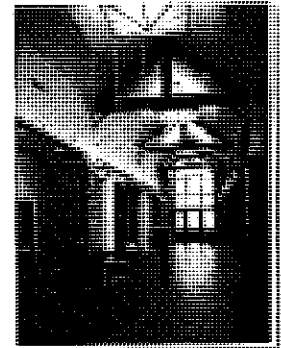
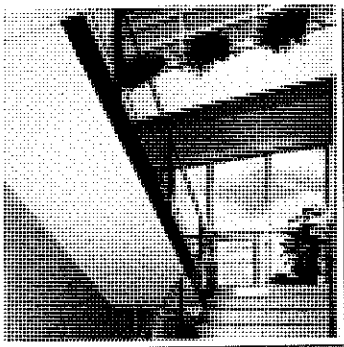
## Local Government

Allegheny County Housing Authority, PA  
Beaver County Courthouse & Annex, PA  
Beaver County Ice Arena Renovations, PA  
Bellevue Borough Building Study, PA  
Bethel Park Community Center, PA  
Cambridge Springs Library, PA  
Cambridge Water Treatment Plant, OH  
City County Building Pittsburgh, PA  
City Hall Pittsburgh PA  
City of Pittsburgh Swimming Pools, PA  
City of Pittsburgh EOC 911, PA  
City of Pittsburgh Warehouse, PA  
Public Auditorium Authority Civic Arena, PA)  
Cranberry Township Municipal Complex, PA  
Dormont Pool Complex Feasibility Study, PA  
Eighth Avenue Streetscape Phase IV, PA  
Erie Senior Citizen's Center, PA  
Erie Veteran's Stadium Renovation, PA  
Fairmont Parking Garage, WV  
Fairmont Public Safety Building, WV  
Field Avenue Recreation Park, PA  
Franklin Park Municipal Building, PA  
Franklin Township Sanitation Authority, PA  
Freeport Borough Building, PA  
Greater Pittsburgh International Airport, PA  
Green Tree Municipal Building, PA  
Greensburg County Building, PA  
Hampton Township Master Planning, PA  
Housing Authority of the City of Pittsburgh, PA

Kennedy Township Park, PA  
Louis J. Tullio Convention Center Erie, PA  
McCandless Municipal Building, PA  
Monroeville Municipal Building, PA  
Moon Township Water Authority, PA  
Mt. Lebanon Parking Garage, PA  
New Stanton Water Treatment, PA  
Penn Hills Recreation Center, PA  
Penn Township Civic Center, PA  
Penn Township Municipal Complex, PA  
Pittsburgh Parking Authority, PA  
Ross Township Municipal Complex, PA  
South Park Municipal Buildings, PA  
South Strabane Township Municipal Building, PA  
Stowe Senior Citizens' Center, PA  
Three Rivers Stadium Renovations, PA  
Vanport Municipal Authority, PA  
Western Ave. Streetscape Improvements, PA  
Westmoreland County Housing Authority, PA

## United States Postal Service

McKnight Road, Pittsburgh, PA  
Clairton, PA  
Monongahela, PA  
Northside, Pittsburgh, PA  
Grant Street, Pittsburgh, PA  
Rochester, PA  
Bulk Mail Handling Facility, Pittsburgh, PA  
Open Ended Services Agreement, PA and WV



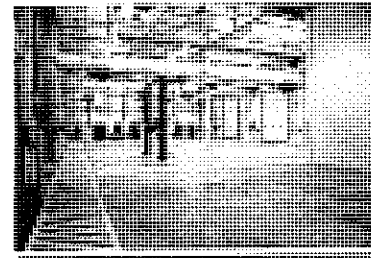
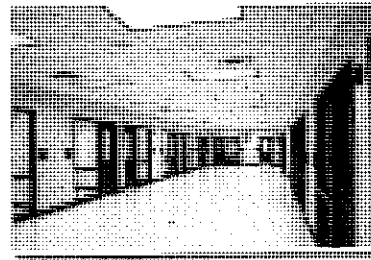
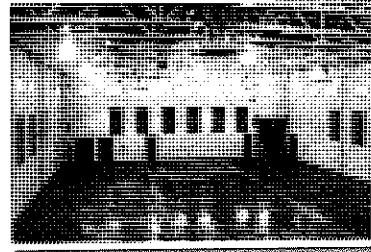
# Project Example

Pennsylvania Army National Guard  
Stryker Brigade Combat Team  
Readiness Center & OMS  
Cambridge Springs, Pennsylvania

Tower Engineering provided engineering services for the design/build of a new 69,900 s.f. Readiness Center and 19,800 s.f. Organizational Maintenance Shop (OMS) for the Stryker Brigade Combat Team. These facilities will provide spaces for training and housing of troops, as well as storage and maintenance of military vehicles and equipment. The center was constructed to replace outdated armories in Erie, Corry and Meadville.

Sustainable design features were included in the design and construction of these facilities, with a goal of a SPiRiT rating of Gold. Design requirements included Anti-Terrorism/Force Protection (AT/FP)

Construction costs were \$19.6 million. This project was completed in 2008.



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Facilities for the Armed Forces

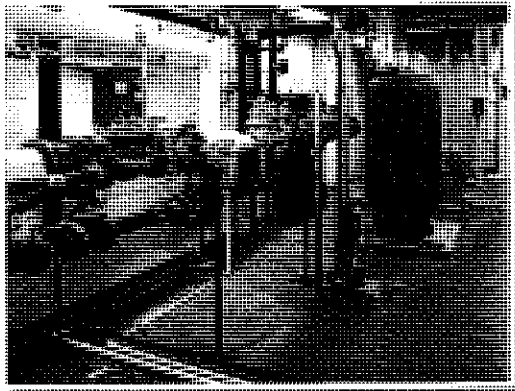
## Project Example

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Pennsylvania National Guard Readiness Center  
Connellsville, Pennsylvania



Tower Engineering recently provided mechanical/electrical engineering services for construction of a new 23,017 square foot armory at the Pennsylvania National Guard Readiness Center in Connellsville, Pennsylvania. This specially designed facility of permanent masonry type construction is constructed of brick and concrete block units with concrete floors, and a metal standing seam roof, including a one-story structure with mechanical and electrical equipment. The building contains offices, drill hall, classrooms, locker rooms, kitchen, toilets, storage, arms vault, Abrams Full-Crew Interactive Simulation Training ALIST Simulation Room, and maintenance training workbays. Cost effective energy conserving features were incorporated into the design, including energy management control systems and high efficiency motors, lighting, and HVAC systems. Construction of this new Armory was completed in 2005. Total construction costs were \$4.1 million; mechanical/electrical construction costs were \$1.1 million.



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Facilities for the Armed Forces

# Project Example

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U.S. Army Reserve Centers  
Jane Lew, West Virginia and  
Clarksburg, West Virginia



Tower Engineering provided engineering services for the U.S. Army Reserve Training Center in Jane Lew, West Virginia. The Center provides a suitable facility for weekend and other intermittent training exercises of the Army Reserve. At 7,400 square feet, the facility includes offices, a large Assembly area, a full service Kitchen, Arms Storage, and supporting storage and mechanical areas.

A separate Organizational Maintenance Shop Building (OMS) provides an enclosed garage area for maintenance operations on the various vehicles, an office, and tools and parts storage.

Tower Engineering also provided mechanical and electrical consulting engineering services for the construction of an 16,120 s.f. Training Building and 10,168 s.f. Organizational Maintenance Shop at the U.S. Army Reserve Center in Clarksburg, West Virginia.

These facilities, as well as the buildings at Jane Lew, West Virginia, were designed in accordance with the U.S. Army Corps of Engineers' "Architectural and Engineering Instructions, Design Criteria."



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Facilities for the Armed Forces

## EDUCATION

BS, Mechanical Engineering  
Penn State University  
1982

## REGISTRATION

PE, Pennsylvania  
PE-040568-E

PE, West Virginia  
PE-11973

PE, New York

NCEES Registration

LEED™ Accredited Professional  
2009

## AFFILIATION

American Society of Heating,  
Refrigeration & Air Conditioning  
Engineers (ASHRAE)  
Pittsburgh Chapter  
Past President

## THOMAS J. GORSKI, P.E., LEED™ AP

Principal, President  
Mechanical Engineering Department Head

Mr Gorski has twenty-seven (27) years of experience as a mechanical engineer His primary responsibilities are the design of HVAC systems and their components for schools, universities, commercial and light industrial office buildings, laboratory buildings, health care facilities and military facilities He has designed HVAC systems including constant and variable air volume, air handling and exhaust systems; chilled water and hot water systems and steam distribution systems; electric/electronic control, pneumatic control and DDC systems

Mr Gorski's design responsibilities include load calculations, equipment selection and system layout, project specifications, cost estimates, direction of the project drafting effort, coordination with architectural and other engineering disciplines, and construction administration He also performs system analysis and energy studies, maintains client contact, and supervises the engineering effort of the Mechanical Engineering groups

## REPRESENTATIVE EXPERIENCE:

**Pennsylvania Army National Guard, Connellsville, Pennsylvania**  
New Readiness Center

**U.S. Army Reserve Center, Jane Lew, West Virginia**  
Readiness Center and Organizational Maintenance Shop Building

**Stryker Brigade Combat Team, Cambridge Springs, Pennsylvania**  
Readiness Center & OMS

**Municipality of Monroeville, Pennsylvania**  
New Municipal Center

**Penn Township, Butler County, Pennsylvania**  
Penn Township Municipal Buildings Renovation/Addition

**Ross Township, Pennsylvania**  
New Municipal Complex

**Marshall Township, Pennsylvania**  
Municipal Building Renovation  
Public Works Building Addition/Renovation

**VA Pittsburgh HealthCare Services, Pittsburgh, Pennsylvania**  
New Parking Garage

## EDUCATION

Bachelor of Science  
Electrical Engineering  
Case Western Reserve University  
1997

## REGISTRATION

PE, Pennsylvania  
PE-061041  
2003

LEED™ Accredited Professional  
2009

## AFFILIATION

Illuminating Engineering Society of  
North America (IES), Pittsburgh  
Section, Treasurer

## STEFFANIE BAKO, P.E., LEED™ AP

Firm Associate  
Senior Project Manager, Electrical Engineering

Ms Bako has twelve (12) years of experience in the electrical engineering field. She has designed electrical systems and their components for office buildings, health care facilities, schools, commercial, and light industrial facilities. Ms Bako has design experience in several areas including power distribution, lighting, security, A/V, and fire alarm systems.

Ms. Bako is primarily responsible for preparation of electrical estimates, technical specifications, engineering drawings, field observation, and coordination with architectural and other engineering disciplines. She also maintains client contacts and manages projects.

## REPRESENTATIVE EXPERIENCE

**West Virginia High Technology Consortium, Fairmont, West Virginia**  
Base Building & Tenant Fitup for Office Building Complex

**WV Army National Guard, Fairmont, West Virginia**  
New Reserve Center

**Mollohan Building, Fairmont, West Virginia**  
Tenant Fitup

**Cranberry Woods, Cranberry Township, Pennsylvania**  
Multiple Tenant Fitups and Base Building Systems

**Canaan Valley Institute, Davis, West Virginia**  
New Headquarters/Educational Building

**Classified Client & Project Details, Rocket Center, WV**  
Multiple Projects

**Massey Coal Services, Inc., Boone County, WV**  
New Office Building

**US Steel Tower, Pittsburgh, PA**  
42 Floor Renovations; 31st and 32nd Floors Renovations

**City of Fairmont, Fairmont, West Virginia**  
Public Safety Building Renovation

**International Coal Group, Scott Depot, West Virginia**  
New Corporate Headquarters

## EDUCATION

Bachelor Mechanical Engineering  
Penn State University  
1997

## REGISTRATION

PE, Pennsylvania  
PE-062304, 2003

Certified in Plumbing  
Engineering (CIPE), 1998

LEED™ Accredited Professional  
2009

## MICHAEL S. PLUMMER, P.E., C.I.P.E., LEED™ AP

Firm Associate  
Plumbing & Fire Protection Engineering Department Head

With twelve (12) years of experience as a mechanical designer/engineer, Mr Plummer is primarily responsible for the design of plumbing and fire protection systems and their components for educational, governmental, and commercial buildings

Mr Plummer's plumbing/fire protection design responsibilities include performing calculations for hydraulically designed sprinkler systems; designing water supply and pumping systems including fire mains and sizing of fire pumps; design/testing of fire protection and alarm systems; and design of plumbing sewage, gas and water systems. In addition to plumbing/fire protection systems, Mr Plummer is an experienced HVAC system designer, and performs load calculations, equipment selection and systems layout. His duties include preparation of project specifications, cost estimates, project management, and coordination with architectural and other engineering disciplines

Mr Plummer also performs construction administration duties including review of submittals, preparation of punch lists, and field problem solving, as well as supervising the engineering efforts of the Plumbing/Fire Protection Department

## REPRESENTATIVE EXPERIENCE

**City of Fairmont, Fairmont, West Virginia**  
Public Safety Building

**West Virginia University, Morgantown, West Virginia**  
Law Building Renovation

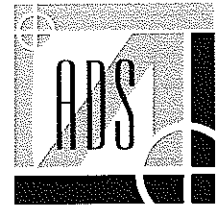
**PA National Guard Readiness Center, Connellsville, Pennsylvania**  
New Armory at Readiness Center

**Stryker Brigade Combat Team, Cambridge Springs, Pennsylvania**  
Readiness Center & OMS

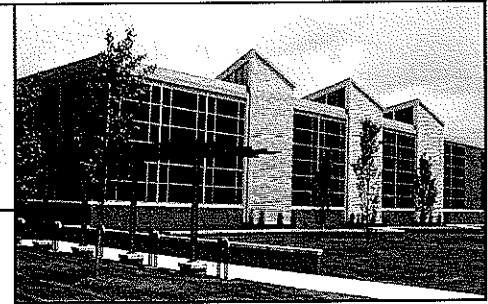
**WV Army National Guard, Fairmont, West Virginia**  
New Reserve Center

**Erie Municipal Airport Authority**  
Terminal HVAC Replacement





**CONSULTING ENGINEERING FIRM SPECIALIZING  
 IN STRUCTURAL BUILDING DESIGN  
 AND BUILDING ANALYSIS**



**OFFICE BUILDINGS**

Allegheny Design Services is a consulting engineering firm specializing in structural building design and building analysis.

Dedicated to serving West Virginia and the surrounding region, ADS recognizes the need for reliable and full service structural engineering support. ADS provides all phases necessary for the successful completion of a building project including schematic design studies, design development, construction documents and specifications, and construction administration.

Over 20 years in Design and Project Management of:

- Commercial
- Industrial
- Institutional
- Educational Facilities



**MIXED USE**



**PARKING GARAGES**



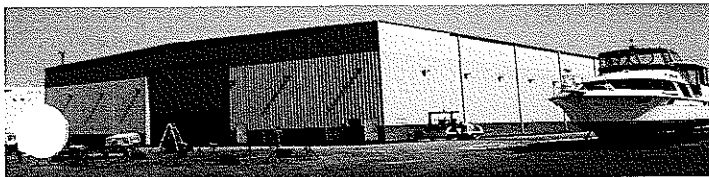
**HOTEL  
 CONFERENCE CENTERS**



**ATHLETIC FACILITIES**



**SECONDARY EDUCATION**



**METAL BUILDING SYSTEMS**



**HEALTH CARE**



# Allegheny Design Services

*Structural & MEP Engineering*

102 Leeway Street  
Morgantown, WV 26505  
Phone: (304)599-0771  
Fax: (304)599-0772

E-mail: [Dave@AlleghenyDesign.com](mailto:Dave@AlleghenyDesign.com)

Web: [www.AlleghenyDesign.com](http://www.AlleghenyDesign.com)

## **FIRM PROFILE**

Allegheny Design Services is a consulting engineering firm specializing in structural building design and building analysis.

Dedicated to serving West Virginia and the surrounding region, ADS recognizes the need for reliable and full service structural engineering support. ADS provides all phases necessary for the successful completion of a building project including schematic design studies, design development, construction documents and specifications, and construction administration. We currently hold licenses in West Virginia, Virginia, Maryland, Pennsylvania, and District of Columbia.

ADS's experience exceeds twenty-five years in the Design and Project Management of:

Commercial Facilities

Industrial Facilities

Institutional Facilities

Educational Facilities

ADS was established by David Simpson, P.E., MBA, in 2002 as a result of a need in North Central West Virginia for reliable structural engineering services. ADS utilizes a combination of office technology and a motivated staff to deliver projects typically up to \$25 million in construction value. We have completed design work for over \$150 million in construction since our inception. Our clients include architects, contractors, developers, attorneys, and insurance companies.

Building systems delivered by ADS include structural steel, reinforced concrete, precast concrete, and structural timber. ADS currently utilizes the latest engineering design and drafting software for the development of project work.

ADS is covered under a \$1 million liability policy for errors and omissions through Travelers C & S Co. of America.



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Web: [www.AlleghenyDesign.com](http://www.AlleghenyDesign.com)

## **KEY PERSONNEL**

### **David R. Simpson, P.E., SECB, MBA, President**

West Virginia Institute of Technology, BSCE

West Virginia University, MBA

Structural Engineering Certification Board

P.E. Licenses in the following States:

West Virginia

Pennsylvania

Maryland

Virginia

District of Columbia

National Council of Examiners for Engineering and Surveying

### **Michael L. Sipe, E.I., Engineering Intern**

West Virginia Institute of Technology, BS Mechanical Engineering

West Virginia University

Structural Analysis

Steel Design

Reinforced Concrete Design

### **Jason D. Robinson, E.I., Engineering Intern**

West Virginia University, BS Civil Engineering



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Web: [www.AlleghenyDesign.com](http://www.AlleghenyDesign.com)

**David R. Simpson, P.E., SECB, MBA**  
**President**

## **Education:**

West Virginia Institute of Technology  
B S Civil Engineering

West Virginia University  
Masters Business Administration

West Virginia State College  
Architectural Technology

## **Professional Registrations:**

Year first registered: 1984  
Structural Engineering Certification Board  
West Virginia  
Pennsylvania  
Maryland  
Virginia  
District of Columbia  
South Carolina  
National Council of Examiners for Engineering and Surveying

## **Professional Memberships:**

American Society of Civil Engineers  
Structural Engineering Institute, Charter Member  
American Concrete Institute  
American Institute of Architects – West Virginia Chapter  
American Institute of Steel Construction, Inc  
American Iron and Steel Institute Member

## **Continuing Education:**

2005 AISC Specification for Structural Steel Buildings – September 27, 2006 – Pittsburgh, PA  
ASCE Testifying Skills for Engineers – February 16, 2007 – Orlando, FL

## **Professional Experience:**

Responsible for project management and design at Allegheny Design Services. Experience includes over 24 years in structural design and project management for industrial, commercial, institutional, and nuclear/chemical facilities utilizing steel, concrete, masonry, and wood. Past accomplishments include design and construction administration of health care facilities, hotels, schools, shopping centers, aircraft hangars, numerous retail facilities, and numerous forensic engineering assignments. Experience has been obtained from the following assignments:

## Experience Record:

Allegheny Design Services, LLC, President,	May 2002 to Present
R.M. Gensert and Associates, Vice President,	August 1998 to May 2002
West Virginia University, Assoc. Director Construction	August 1988 to August 1998
Simpson Engineering, Owner	August 1988 to August 1998
CECO Buildings Division, Senior Structural Engineer	April 1985 to August 1988
Rockwell International, Facility Structural Engineer	March 1982 to April 1985
Bellard Ladner & Assoc , Staff Structural Engineer	Sept. 1981 to March 1982
PPG Industries, Facility Structural Engineer	January 1980 to Sept. 1981

## Additional Professional Experience:

Experience encompasses design, project management, and construction administration for reinforced concrete, structural steel, precast concrete, masonry, and wood structures.

Project experience includes:

Fairmont Senior High School, Fairmont, WV  
Belmont Community Center, St. Clairsville, OH  
Monongalia General Hospital Operating Room Addition, Morgantown, WV  
Chestnut Ridge Church, Morgantown, WV  
West Virginia University Business and Economics Building, Morgantown, WV  
West Virginia University High Density Book Storage Facility, Morgantown, WV  
West Virginia University Life Sciences Building, Morgantown, WV  
West Virginia University Student Recreation Center, Morgantown, WV  
West Virginia University Wise Library Addition, Morgantown, WV  
West Virginia University White Hall Computer Center, Morgantown, WV  
UPMC Hillman Cancer Center, Pittsburgh, PA  
Carnegie Museum of Natural History Addition, Pittsburgh, PA  
Cultural Trust District Parking Garage, Pittsburgh, PA  
Delaware Valley Veterans' Home, Philadelphia, PA  
Fairmont State University Parking Garage, Fairmont, WV  
First Avenue Parking Garage, Pittsburgh, PA  
Hillman Cancer Center (UPMC), Pittsburgh, PA  
New Enterprise Precast Corporate Headquarters, New Enterprise, PA  
Respiroics Corporate Office Facility, Pittsburgh, PA  
International Brotherhood of Electrical Workers Headquarters Training Center, Pittsburgh, PA  
Laurel Highlands Middle School Addition, Uniontown, PA  
Trinity High School, Morgantown, WV  
Mylan Pharmaceuticals Parking Garage, Morgantown, WV  
Phipps Conservatory Addition, Pittsburgh, PA  
Radisson Hotel and Conference Center, Morgantown, WV  
Western Pennsylvania School for Blind Children, Pittsburgh, PA  
In-Situ Vitrification Nuclear Waste Encapsulation Project, Richland, WA  
Dominion Transmission Office Building, Clarksburg, WV  
Multiple structural evaluations and expert witness for structural damage due to subsurface mining subsidence, floods, ice, wind, and construction errors  
Over 400 low-rise metal building projects from Maine to South Carolina, including warehouses, aircraft hangar facilities, shopping centers, industrial facilities, and office facilities.



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Web: [www.AlleghenyDesign.com](http://www.AlleghenyDesign.com)

## Jason D. Robinson, E.I. Engineering Intern

### Education:

West Virginia University  
B.S. Civil Engineering

### Awards/Achievements/Organizations:

Dean's List  
Member of AISC  
Associate Member of ASCE

### Professional Registrations:

West Virginia, Engineering Intern License #8699

### Professional Experience:

Responsibilities include structural engineering design, construction documents, quality control and field engineering.

#### Experience record:

Bridgeport Public Safety Substation, Bridgeport, WV  
Canaan Valley Institute, Davis, WV  
Gabriel Brothers Renovation, Clarksburg, WV  
Genesis Youth Crisis Center, Clarksburg, WV  
Goshen Baptist Church, Morgantown, WV  
GSA DOE, Morgantown, WV  
Mylan Upper Warehouse to Labs, Morgantown, WV  
Rees Restaurant, Morgantown, WV  
The Dayton, Morgantown, WV  
The View at the Park Phase 2, Morgantown, WV  
WVU Child Development, Morgantown, WV  
White Oaks Progress Center, Bridgeport, WV

### Courses and Continuing Education:

WVU Steel Design – Fall 2007  
AISC Façade Attachments to Steel Frames, September 2007  
ASCE Reinforced Masonry: Design and Construction, November 2007



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Web: [www.AlleghenyDesign.com](http://www.AlleghenyDesign.com)

## Michael L. Sipe, E.I. Engineering Intern

### Education:

West Virginia University Institute of Technology  
B.S. Mechanical Engineering  
Minor: Mathematics

### Awards/Achievements/Organizations:

Deans List, last 4 completed semesters  
Member of Pi Tau Sigma  
Member of AISC  
Associate Member of ASCE

### Professional Registrations:

West Virginia, Engineering Intern License # 8519

### Professional Experience:

Responsibilities include structural engineering design, construction documents, quality control, field engineering and project engineering.

#### Experience record:

Avery Court Apartments, Parkersburg, WV  
Cutlip Christie Office Complex, Clarksburg, WV  
Dominion Exploration Addition, Jane Lew, WV  
Fairmont State University Smoke Vents, Fairmont, WV  
Finite Element Analysis of Various Material Handling Structures  
Gassaway Bank, Flatwoods, WV  
Glenmark Office Building, Morgantown, WV  
Greer Limestone Conveyor Structure Renovations, Morgantown, WV  
Morgantown Event Center, Morgantown, WV  
Pressley Ridge School Residence Hall & Dining Facilities, Clarksburg, WV  
Proplex Athletic Training Facility, Morgantown, WV  
Waterfront Marina, Morgantown, WV  
West Milford Elementary School Classroom Addition, West Milford, WV  
WVU Downtown Student Housing, Morgantown, WV  
WVU Puskar Academic Center, Morgantown, WV

### Courses and Continuing Education:

WVU Structural Analysis I, Spring 2006  
WVU Steel Design, Fall 2006  
WVU Reinforced Concrete Design, Spring 2007  
AISC Design Steel Your Way with the 2005 AISC Specification, September 2006  
ASCE Steel Framed Buildings, May 2007  
AISC Façade Attachments to Steel Frames, September 2007  
ASCE Reinforced Masonry: Design and Construction, November 2007



**Allegheny**  
**Design Services**  
*Structural & MEP Engineering*

**ALLEGHENY DESIGN SERVICES' EXPERIENCE  
 TEAMING WITH OMNI ASSOCIATES-ARCHITECTS, INC.**

**Canaan Valley Institute Headquarters/  
 Educational Facility  
 Davis, WV**

ADS was a sub-consultant to Omni Associates for the Canaan Valley Institute Headquarters/Educational Facility. CVI Headquarters houses research facilities, offices, and public service facilities. Construction cost was approximately \$6.5 Million. It was completed in 2009



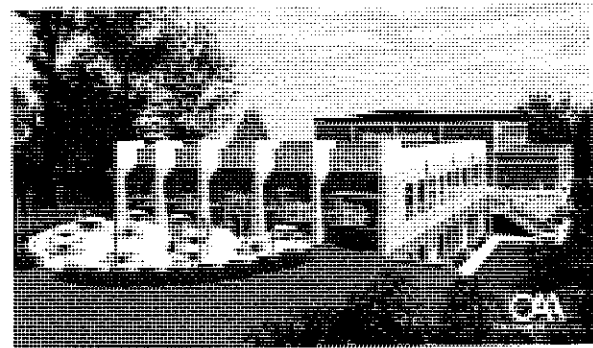
**Fairmont AFRC  
 Fairmont, WV**

ADS was a sub-consultant to Omni Associates for the Fairmont AFRC. Design is currently underway for a National Guard Readiness Center. It includes space for training, offices and multi-use public space.



**Fairmont Senior High School Cafeteria  
 Addition  
 Fairmont, WV**

ADS was a sub-consultant to Omni Associates for the Fairmont Senior High School Cafeteria Addition. Completed in 2000, this \$2.5 Million addition consists of a cafeteria and mechanical space on the lower level.







# Allegheny Design Services

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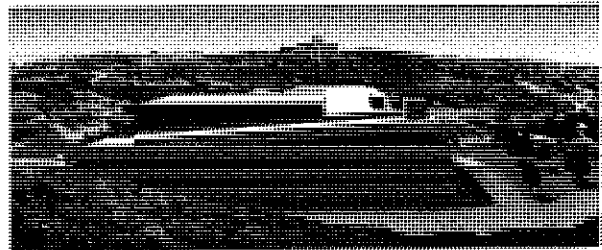
## Lakeside Physical Therapy Morgantown, WV

ADS was a sub-consultant to Omni Associates for the Lakeside Physical Therapy Building. The 8,700 square foot facility was completed in 2006. It consists of offices, treatment rooms and aerobic area. Construction cost was approximately \$1.4 Million.



## Mylan Corporate Office Parking Garage Morgantown, WV

ADS is a sub-consultant to Omni Associates for the Mylan Corporate Office Parking Garage. The 400 car parking structure was completed in 2004. The \$5.5 Million facility is set into a terraced hillside.



## St. Bernard Chapel Snowshoe, WV

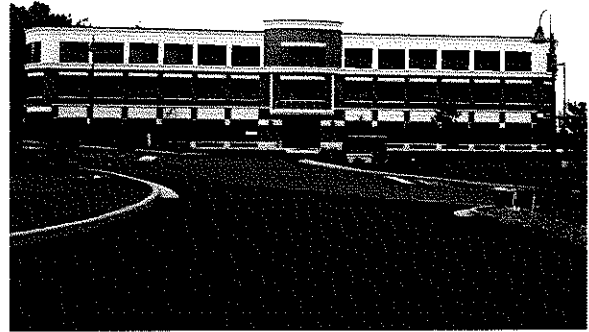
ADS was a sub-consultant to Omni Associates for the St. Bernard Chapel. This 7,200 square foot facility was completed in 2005. Consisting of a timber frame structure at a cost of \$1.5 Million. Received a Merit Award from AIA West Virginia.





**Suncrest Towne Centre Building 600**  
**Morgantown, WV**

ADS is a sub-consultant to Omni Associates for the Suncrest Towne Centre Building 600. This 13,000 square foot facility was completed in 2009 for approximately \$3 Million. The lower level consists of retail space with the upper floors consisting of offices.



**Suncrest Towne Centre Office Buildings**  
**451, 453 & 455**  
**Morgantown, WV**

ADS is a sub-consultant to Omni Associates for the Suncrest Towne Centre Office Buildings 451, 453 & 455. These three office buildings are a total of 44,000 square feet in office space. Construction is underway.



**Suncrest Towne Centre Site C**  
**Morgantown, WV**

ADS is a sub-consultant to Omni Associates for the Suncrest Towne Centre Site C. Engineering was provided for foundation design, miscellaneous structural consultation for a prefabricated metal building frame clad in masonry. Total retail space is approximately 60,000 square feet.

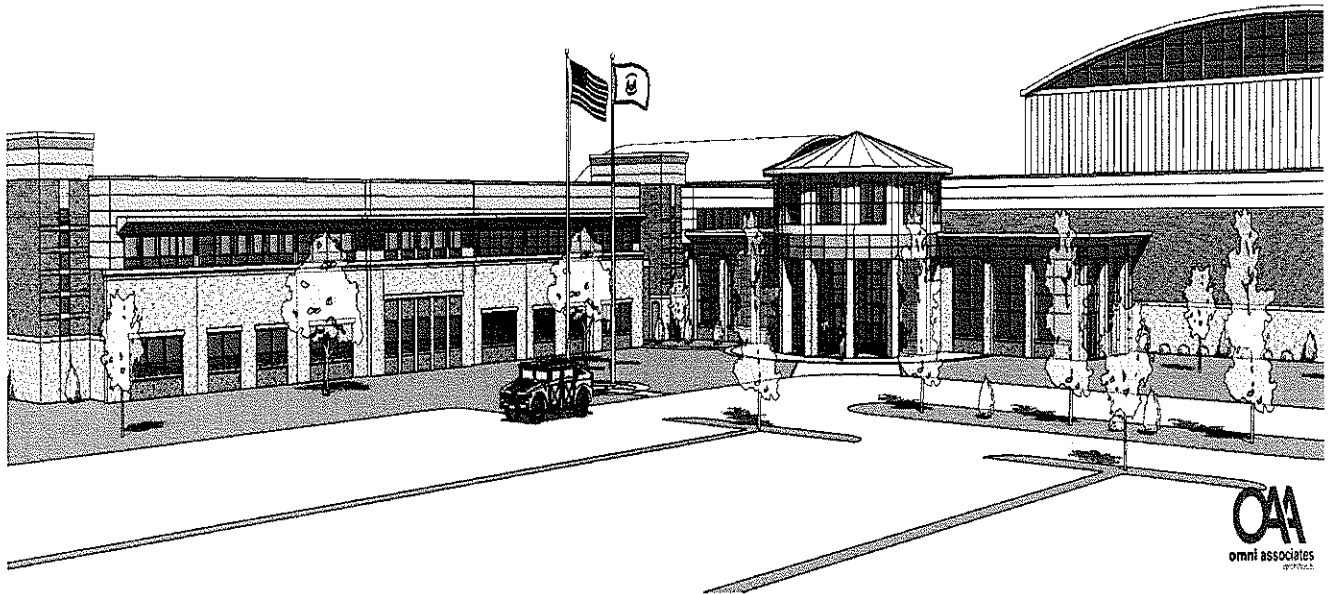




**Allegheny**  
**Design Services**  
*Structural & MEP Engineering*

## **PROJECT PROFILE**

**Fairmont AFRC**  
**Fairmont, WV**



**PROJECT ARCHITECT:**  
**STRUCTURAL ENGINEER:**  
**CONTRACTOR:**

The Omni Associates—Architects, Inc., Fairmont, WV  
Allegheny Design Services, Morgantown, WV  
To Be Determined

**PROJECT VALUE:**

\$18 Million

**ESTIMATED PROJECT COMPLETION:**

Under Design



# Allegheny Design Services

*Structural & MEP Engineering*

## **PROJECT PROFILE**

### **GSA Sabraton (USDA) Morgantown, WV**



**PROJECT ARCHITECT:**  
**STRUCTURAL ENGINEER:**  
**CONTRACTOR:**

Paradigm Architecture, Morgantown, WV  
Allegheny Design Services, Morgantown, WV  
March-Westin Company, Inc., Morgantown, WV

**PROJECT SCOPE:**

Awarded through a Design-Build Competition sponsored by the General Services Administration. This facility will house five agencies of the USDA including: the Credit Union, Rural Development, Farm Services Administration, Natural Resource Conservation services, and the USDA Information Technology Services.

**PROJECT VALUE:**

\$6.5 Million (Shell)

**ESTIMATED PROJECT COMPLETION:**

Fall 2009