



ARCHITECTS & ENGINEERS

June 14, 2010

Mr. Chuck Bowman, Buyer  
Department of Administration, Purchasing Division  
2019 Washington Street, East  
P.O. Box 50130  
Charleston, West Virginia 25305-0130

**Subject: Buckhannon Readiness Center  
West Virginia Army National Guard  
Requisition #DEFK10019**

Dear Mr. Bowman:

ZMM is pleased to submit the attached information to demonstrate both our experience and our capability to provide professional architectural and engineering services for the Buckhannon Readiness Center for the West Virginia Army National Guard (WVARNG). We are confident that our recent experience working with the WVARNG, our commitment to creating innovative and award winning facilities, and our efforts to implement sustainable design and construction principles will make ZMM a great partner for the WVARNG for the development of the new Buckhannon Readiness Center.

Since 1959, ZMM has been consistently recognized as one of the largest, fully integrated architecture and engineering firms in the State of West Virginia. ZMM is an organization of creative professionals with the common interest of working with our clients to design and engineer innovative and cost effective buildings. ZMM has the in-house capability (35 full-time employees) to deliver the professional design services necessary for the Buckhannon Readiness Center project.

Please note that as on several recent projects completed for the WVARNG, ZMM will collaborate with Capitol Engineering, Inc. for site and civil design. CEI is a small, locally owned, service oriented, civil engineering firm located in Charleston. CEI has been a critical team member that has demonstrated both client responsiveness and technical excellence. Projects demonstrating ZMM's past collaborations with CEI are included in the attached information.

RECEIVED

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ZMM Inc  
222 Lee Street West • Charleston, West Virginia 25302  
304 342 0159 voice • 304 345.8144 fax  
zmm.com

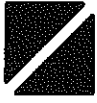
WV PURCHASING  
DIVISION

**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 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).



Mr. Chuck Bowman, Buyer  
June 14, 2010  
Page 2 of 2

Thank you for taking the time to review the attached brochure that outlines detailed information regarding the history, services, personnel, experience, and qualifications of **ZMM**. Additionally, please visit our website at [www.zmm.com](http://www.zmm.com) to see the full range of projects that we have designed. We look forward to meeting with you in the near future to review our qualifications, and to discuss your project in greater detail.

Respectfully submitted,  
**ZMM, Inc.**

Adam R. Krason, AIA, NCARB, LEED-AP  
Vice President

*Attachment: Expression of Interest*

cc: file

**Buckhannon Readiness Center**  
**West Virginia Army National Guard - DEFK10019**



Cover Letter

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Reference Letters



## HISTORY AND PHILOSOPHY of ZMM



LOCATION:  
222 Lee Street, West  
Charleston, WV

CONTACT:  
Phone 304.342.0159  
Fax 304.345.8144  
www.zmm.com

Ray Zando, Ken Martin and Monty Milstead established the **Charleston, West Virginia** based Architectural and Engineering firm of Zando, Martin and Milstead in 1959 with a staff of five people. The firm obtained an early foothold in the professional services sector in the state and grew in both size and stature. Mr. Steven Branner, a recent graduate of the University of Cincinnati, joined the firm in 1967 as a project architect. Mr. Robert Doeffinger obtained a B. S. degree in Mechanical Engineering from West Virginia University and an M. S. degree in Architectural Engineering from The Pennsylvania State University before joining the firm in 1976.

Mr. Zando, Mr. Martin and Mr. Milstead, reaching retirement age, transferred the ownership of the firm to Mr. Branner and Mr. Doeffinger in 1986 and they guided and expanded the firm to its present size of approximately 35 people. Since then, Dave Ferguson, Rod Watkins, and Adam Krason have joined in ownership of the firm.

Since the beginning, ZMM has been dedicated to the integrated approach to building design. The inclusion of engineering services (civil, mechanical, electrical and structural), as well as interior design, makes ZMM unique among architectural firms and fulfills the needs of clients for single point responsibility. More importantly, an integrated approach provides better coordinated, accurate, and concise documents. ZMM's commitment to clients is to provide the highest quality professional services available. In order to maintain this high level of quality, we strictly conform to a Quality Assurance Program, a unique feature of ZMM.



We work hard at staying generalists, while, by virtue of maintaining a practice for over fifty years, having extensive experience in different building types. We approach each project as a unique opportunity and execute each design accordingly. Nothing is done without our full, professional attention. ZMM has a demonstrated record of success in the specialization of architecture and engineering.

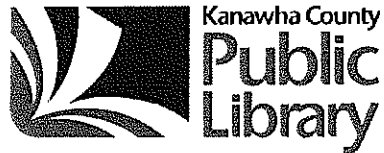
# HISTORY AND PHILOSOPHY of ZMM



## COMMUNITY SUPPORT

In addition to our design efforts, **ZMM** is supportive of institutions and organizations that contribute to the cultural and educational landscape in West Virginia

**ZMM** offers financial support to several community and state-wide institutions which reflect the superior quality that we strive to achieve on each of our projects. The following organizations also impact the educational environment through their support of local artisans, performances, broadcasts, and community service:



**West Virginia Symphony Orchestra**

# PROFESSIONAL SERVICES



Since its inception, ZMM has been dedicated to the integrated approach to building design (providing full architectural and engineering services in-house) which is unique to architectural firms of our size. Our past successful experience demonstrates that providing multi-disciplined services within one organization results in a fully coordinated project. ZMM has the qualified professionals available to provide services throughout the duration of a project from the initial planning phases through post-occupancy evaluations and beyond.

Additionally, ZMM is constantly working to improve the services we offer by addressing emerging and evolving trends that impact the design and construction market. ZMM has eight LEED accredited Professionals on staff to address the needs of our clients who are interested in designing buildings that meet the US Green Building Council's standards. This continues ZMM's active implementation of sustainable design principles on our projects.

**ZMM offers all of the following professional services within our organization:**

## PRE-DESIGN

- Educational Facility Planning
- Programming
- Space Planning
- Feasibility Studies
- Existing Building Evaluation
- Site Evaluation and Analysis
- Master Planning
- Construction Cost Estimating

Executive Summary		Index (Pages)
<b>National Guard Bureau</b>	<b>Area (GSF)</b>	<b>7</b>
Architecture	35,317	
Interior Design	98,513	
<b>Total (GSF)</b>	<b>133,830</b>	
<b>Department of Energy</b>	<b>Area (GSF)</b>	<b>14</b>
Architecture	1,700	
Interior Design	12,700	
Information Management	12,500	
Electrical	500	
Construction Management	13,500	
Cost Estimating	12,500	
<b>Total (GSF)</b>	<b>45,900</b>	
<b>AFRC</b>	<b>Area (GSF)</b>	<b>4</b>
Architecture	1,000	
Interior Design	1,000	
Information Management	1,000	
Electrical	1,000	
Construction Management	1,000	
Cost Estimating	1,000	
<b>Total (GSF)</b>	<b>7,000</b>	
<b>Joint Interagency Training Center - East</b>	<b>Area (GSF)</b>	<b>4</b>
Architecture	10,000	
Interior Design	10,000	
Information Management	10,000	
Electrical	10,000	
Construction Management	10,000	
Cost Estimating	10,000	
<b>Total (GSF)</b>	<b>60,000</b>	
<b>Missouri</b>	<b>Area (GSF)</b>	<b>7</b>
Architecture	10,000	
Interior Design	10,000	
Information Management	10,000	
Electrical	10,000	
Construction Management	10,000	
Cost Estimating	10,000	
<b>Total (GSF)</b>	<b>70,000</b>	
<b>Total Building Area</b>	<b>Area (GSF)</b>	
National Guard Bureau	133,830	
Department of Energy	45,900	
Joint Interagency Training Center	16,000	
Missouri	70,000	
<b>Total (GSF)</b>	<b>265,730</b>	

# PROFESSIONAL SERVICES



## DESIGN

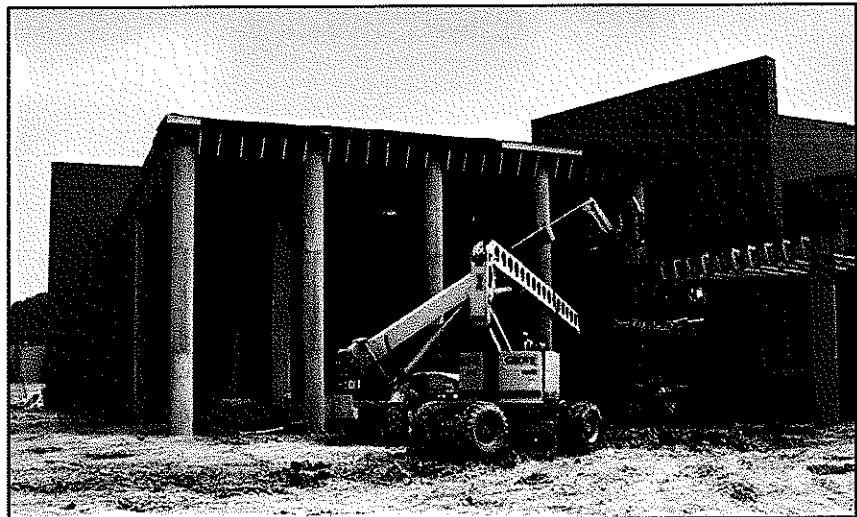
Architectural Design  
Sustainable Design  
Interior Design  
Landscape Architecture  
Structural Engineering  
Mechanical Engineering

Electrical Engineering  
Civil Engineering  
Data System Design  
Lighting Design  
Energy Consumption Analysis



## POST DESIGN

Construction Administration  
Value Engineering  
Life Cycle Cost Analysis  
Post-Occupancy Evaluation





# QUALITY ASSURANCE



At ZMM, we strive to be the best. Our Quality Assurance Program is one step in the process of exceeding our clients' expectations. Our QA/QC Program is led by Mr. Steve Branner, AIA and Mr. Rod Watkins, REFP, both Principals of the firm, who combined bring more than 80 years of experience to ensuring the quality of every ZMM project. This program includes the following six components:

## 1. Selecting the Project Team

ZMM's diverse staff ensures that each project team is made up of highly qualified members, each dedicated to the project's success. Project team members are selected based upon relevant experience, and ability to help achieve the client's vision.

## 2. Identifying Project Requirements

Project team members are fully integrated in each phase of the design process, ensuring a quality project from the beginning, to take advantage of early sustainable design decision-making. The project requirements are included in a 'Basis of Design' that each member of the project team can access. The 'Basis of Design' helps guide important project decisions.

## 3. Identifying Client Expectations

Knowing and understanding our clients' expectations is our goal. This knowledge gives ZMM a baseline for exceeding expectations.

## 4. Ongoing Project Reviews

As part of the ongoing project reviews, we conduct quality assurance evaluations during each stage of the project:

- Schematic Design Phase
- Design Development Phase
- Construction Documents Phase
- Construction Administration Phase

ZMM has developed a series of QA/QC review documents that are completed during each phase, and include a programmatic review, technical review, and review of the project schedule and budget.

## 5. Post Project Review

At the completion of every project, ZMM staff members participate in a learning session to gain insight useful for future projects. These reviews typically include participation from the owner and the contractor.

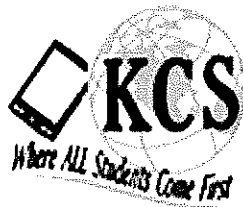
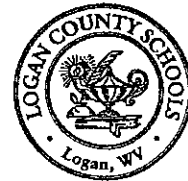
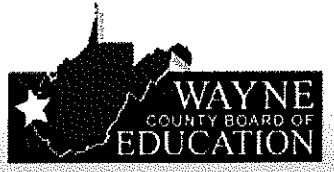
## 6. Staff Training, Assessment and Enhancement

Ongoing staff development and training is very important to ZMM. Providing increased opportunities for learning and advancement leads to improved employee performance more successful projects.

# QUALITY ASSURANCE



The quality of our work is key to our continued success and repeat client base.



# HISTORY OF CAPITOL ENGINEERING, INC.



**LOCATION:**  
1206 Kanawha Boulevard, East  
Charleston, WV 25301

**CONTACT:**  
Phone 304.344.0720  
[www.capitolengineering.com](http://www.capitolengineering.com)

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. 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 Jackson County Readiness Center.

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.

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 30 National Guard projects in West Virginia.
- Management team has 30+ years and over 50 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

# HISTORY OF CAPITOL ENGINEERING, INC.



**LOCATION:**  
1206 Kanawha Boulevard, East  
Charleston, WV 25301

**CONTACT:**  
Phone 304.344.0720  
[www.capitolengineering.com](http://www.capitolengineering.com)

## 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.

## TEAM CONTRIBUTIONS

- Project Management
- Surveying and Site Investigation
- Facilities Planning and Design
- Previous WVARNG Experience
- Five Minutes to the C&FMO
- 100% CAD
- Digital Equipment
- Military Experience

# HISTORY OF CAPITOL ENGINEERING, INC.



**CEI**

LOCATION:  
1206 Kanawha Boulevard, East  
Charleston, WV 25301

CONTACT:  
Phone 304.344.0720  
[www.capitolengineering.com](http://www.capitolengineering.com)

## WVARNG EXPERIENCE

- AASF #1 Boundary Monumentation
- AASF #1 Oil/Water Separator Modifications
- AASF #1 Wastewater Disposal Feasibility Study & Facility As-built Survey
- AASF Apron Expansion Civil Design, Construction Observation
- C&FMO Office Addition Civil Design, Construction Observation
- Camp Dawson Ranges Renovation Civil Design, Construction Observation
- Camp Dawson Runway Improvements, Construction Observation
- Child Development Center Siting Analysis
- Eleanor Rail Spur Layout & Quantity Determination
- Eleanor Utility Mapping & Boundary Monumentation
- Elkins Armed Forces Reserve Center Site Investigation, Civil Design
- Fairmont Armed Forces Reserve Center Site Investigation, Civil Design
- Fixed Wing Army Aviation Training Site Feasibility Study
- Glen Jean AFRC Site Investigation, Civil Design, Construction Observation (Site)
- Joint Interagency Training and Education Center Site Investigation, Civil Design
- Kingwood Readiness Center Site Investigation, Civil Design
- Lewisburg Readiness Center Site Investigation, Civil Design, Construction Observation (Site)
- Logan-Mingo Readiness Center Site Investigation, Civil Design
- Mountaineer Challenge Academy Site Investigation, Civil Design
- Ripley Armed Forces Reserve Center Site Investigation, Civil Design
- Summersville Readiness Center Site Investigation, Civil Design, Construction Observation (Site)

## SIGNIFICANT POINTS

- Site investigation experience with undesirable/difficult sites - Glen Jean, Lewisburg, Fairmont, Elkins, Mingo/Logan Readiness Center
- Glen Jean civil design - nice use of site for both function and aesthetics - USPFO property has same potential
- AASF construction observation - worked with CFMO to maximize impact with the dollars available

# CEI PROFESSIONAL SERVICES



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 System

## **Environmental Engineering**

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

## **Surveying & Mapping**

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

## **Construction Administration**

Bid Analysis & Management  
Construction Observation  
Damage Settlement  
Submittal Review

## **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

# Glen Jean Armed Forces Reserve Center

WVARNG

**ZMM**

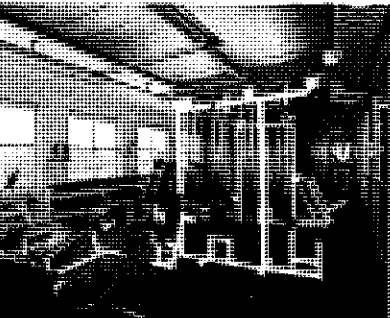
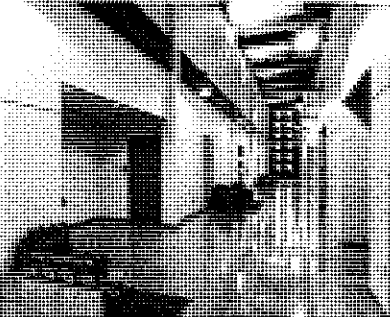
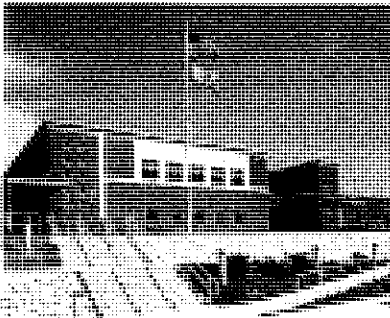
**CEI**

**LOCATION:**  
Glen Jean, West Virginia

**SIZE:**  
109,000 SF

**COMPLETION:**  
2003

**CONTACT:**  
General Melvin L. Burch  
WVARNG  
1703 Coonskin Drive  
Charleston, WV 25311  
304.561.6450



The Glen Jean Armed Forces Center contains three distinct military functions: a facility for routine maintenance of over-the-road and tracked military vehicles, an armory housing four West Virginia National Guard units and the Southern West Virginia Military Entrance Processing Station, where new recruits officially enter the military system

The brick exterior walls are highlighted with limestone and metal trim accents. A large assembly hall, plus classroom and training space, enhance the ability of the armory building to provide training for military personnel, and additionally to provide space for community functions

# RIPLEY ARMED FORCES RESERVE CENTER

WVARNG

ZMM

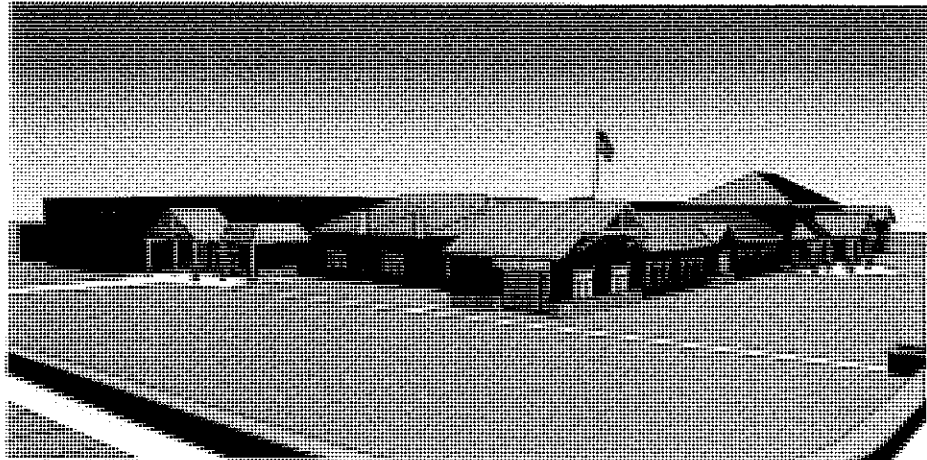
CEI

LOCATION:  
Milwood, West Virginia

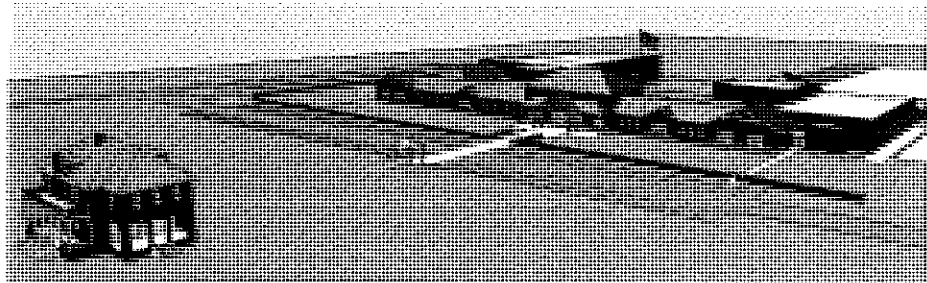
SIZE:  
75,000 SF

COST:  
\$ 20 Million

CONTACT:  
General Melvin L. Burch  
WVARNG  
1707 Coonskin Drive  
Charleston, WV 25311  
304.561.6450

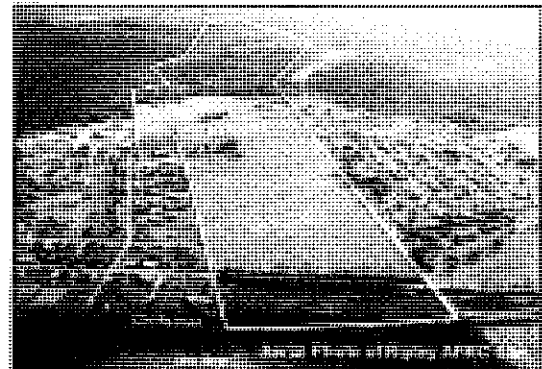


The new facility will house both the West Virginia Army National Guard (WVARNG) and the United States Army Reserves (USAR). The primary user for the WVARNG will be DET 1 821st Engineering Company, who will be supported by a FSC of the 1092nd. USAR occupants will include PLT AMMO 261 OD and PLT 1 (Postal) and PLT 6 (Postal) of the 44th Personnel Company. The facility will also include an expanded Drill Hall that can serve as a convention and meeting space, which is being funded by the Jackson County Commission, additional federal appropriations, and the State of West Virginia National Guard.



The site for the proposed facility includes a 344 acre tract of land located to the East of the Ohio River. The land is bisected by Route 2, and the new facility will occupy land between the river and Route 2, near the existing Order of the Eastern Star house.

The exterior aesthetic of the facility is strongly influenced by the existing Georgian Style Order of The Eastern Star house that will remain on the property. Due to the proximity to this existing structure, and the lack of other defining characteristics on the property,





# RIPLEY ARMED FORCES RESERVE CENTER

WVARNG



LOCATION:  
Milwood, West Virginia

SIZE:  
75,000 SF

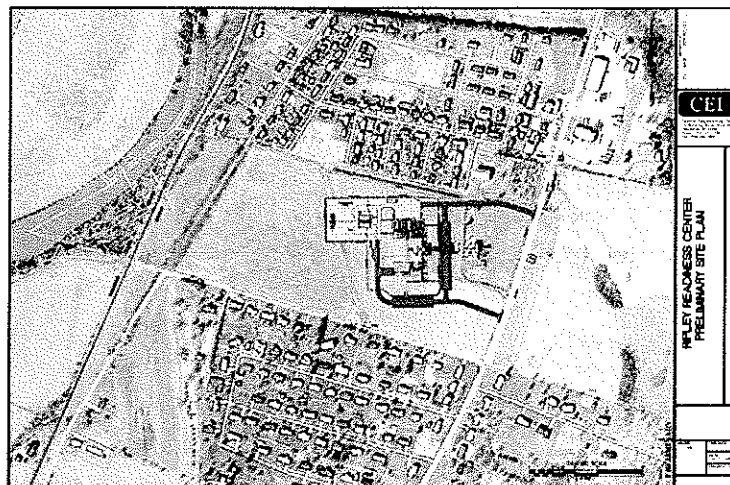
COST:  
\$ 20 Million

CONTACT:  
General Melvin L. Burch  
WVARNG  
1707 Coonskin Drive  
Charleston, WV 25311  
304.561.6450



The relationship between the structures became crucial to the site layout. The new facility is centered on the existing house, increasing the exposure of the facility from Route 2 - the major route of vehicular travel that parallels the Ohio River. Once the aesthetic of the building was established, the massing of the new facility was defined by "breaking-down" the facility into smaller mass elements that more closely reflected the Georgian Style, and that of many Army "posts," such as Fort Meyer in Northern Virginia. The larger programmatic elements such as the Drill Hall and the storage areas employ an aesthetic that more closely implies their function.

The layout of the facility includes a main entry with the USAR and WVARNG Recruiting, Family Support, and Administrative areas located on separate sides (USAR to the left, WVARNG to the right). A transverse wing on the left houses all functions that have the potential for public use, such as the Drill Hall and the Educational component, while all primary military spaces developed along a similar perpendicular wing on the right. This allows for separate entries to be developed for public functions, while the remainder of the facility can be secured. The layout also creates a large central courtyard or parade field that would be located at lower grade to define the edge facing the river. This edge will also be defined by a canopy that connects storage and locker areas to the expanded Drill Hall.



# Robert C. Byrd - Regional Training Institute

WVARNG



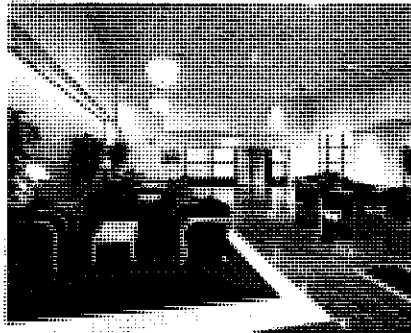
LOCATION:  
Camp Dawson, West Virginia

SIZE:  
148,066 SF

COMPLETION:  
2002

COST:  
\$21 Million

CONTACT:  
General Melvin L. Burch  
WVARNG  
1703 Coonskin Drive  
Charleston, WV 25311  
304.561.6450



The Robert C. Byrd Regional Training Institute at Camp Dawson is a new 148,000 SF facility designed to provide training, dormitory, dining, and recreational facilities for the West Virginia Army National Guard. The facility, which includes 183 private dormitory rooms in addition to a wide range of training spaces is designed to accommodate a variety of both military and civilian training functions.

In addition to the housing and educational components, the facility also includes dining and recreational functions, including: a full-service dining hall; a snack-bar; a fitness center; an auditorium; as well as multiple group "break-out" or study rooms.

The design employs a large cylindrical mass that marks the main entry where guests can coordinate both their housing and educational needs. The housing wing is joined to the recreational and educational components with a large gathering/transitional space that often serves as an informal meeting area. Due to the success of the project, and growing use of the facilities, ZMM is currently assisting the West Virginia Army National Guard as they explore potential training and dormitory expansions.

# JOINT INTERAGENCY TRAINING & EDUCATION CENTER

WVARNG

**ZMM**

**CEI**

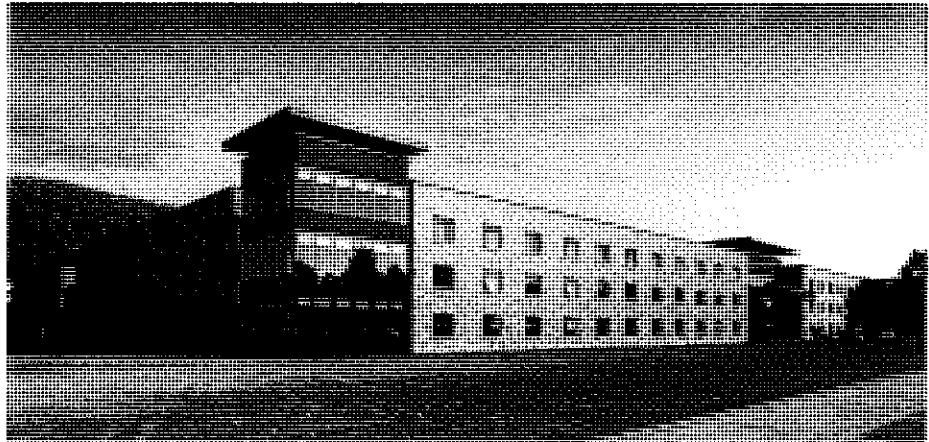
LOCATION:  
Kingwood, West Virginia

SIZE:  
285,000 SF

COMPLETION:  
Est. 2012

COST:  
\$110 Million

CONTACT:  
Brigadier General  
Melvin L. Burch



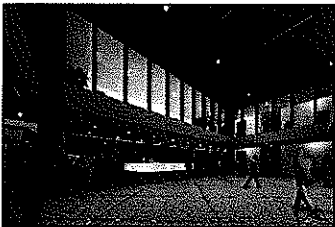
ZMM, in association with AECOM, is providing architectural and engineering design services for the Joint Interagency Training and Education Center (JITEC), an Army National Guard campus-style facility for training and operational mission support. Sited on 30 acres at the northern end of Camp Dawson between the Cheat River and the foot of Brier Mountain, this 283,000-SF project includes the design of a new operations building; expansion of the billeting facility; renovation of the training facility; creation of a new base entry checkpoint and visitor center; and design for walkway connectors between all the facilities.



The project began with a review of the existing base master plan, followed by a revision of the master plan concept. JITEC is a training and educational facility – the vision behind the site design and updated master plan is that of a college campus atmosphere. The design intent is to create a campus environment that integrates existing buildings with new ones by using compatible, yet distinct building materials.



As the scale of the project includes several miles of roads, parking, and utility upgrades affecting the entire base, the project is being phased over a four-year construction period. Simultaneous construction of all of the new facilities, as well as phased construction in existing buildings, will minimize the disruption to current operations.



The new facilities are designed to meet all anti-terrorism/force protection criteria and are slated for LEED-NC silver certification from the U.S. Green Building Council. The new 82,000-SF operations building is prominently sited as the main focal point upon entering Camp Dawson through the secure access control point and visitor's center, also designed by AECOM. The building's exterior complements its West Virginia setting. The entire building front, composed of glass and pre-cast concrete walls, is open and inviting with glazing that reflects the surrounding trees and hills. Security requirements for the command center influenced the design of the attached, copper-clad "black box" that is an homage to the native rock stratification seen throughout the state.

The building consists of four distinct areas: the Joint Operations Center; a suite of secure training rooms; base headquarters and JITEC administrative offices; and a 6,000-SF server and telecommunications room.

# JOINT INTERAGENCY TRAINING & EDUCATION CENTER

WVARNG

ZMM

CEI

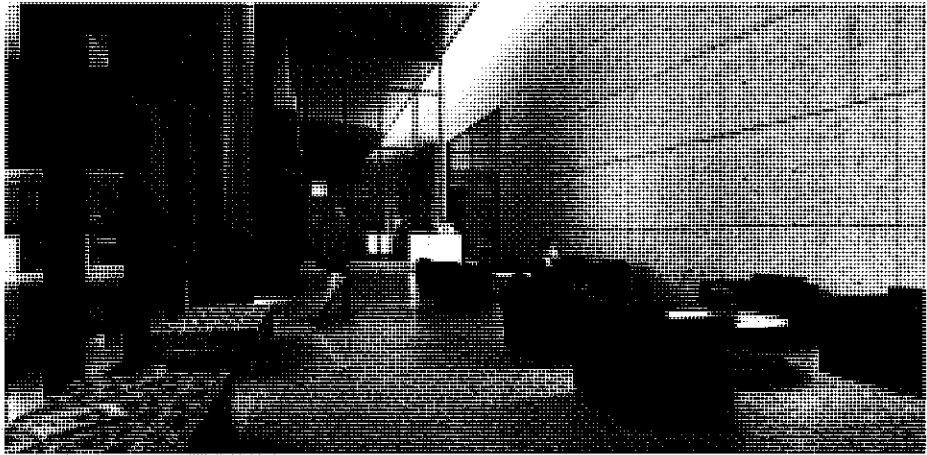
LOCATION:  
Kingwood, West Virginia

SIZE:  
285,000 SF

COMPLETION:  
Est. 2012

COST:  
\$110 Million

CONTACT:  
General Melvin L. Burch  
WVARNG



Entry to the Joint Operations Center (JOC) is provided by a secure mantrap adjacent to a dedicated security office. Built to SCIF standards, the JOC contains a state of the art command center housing 48 permanent work stations in a theater-style configuration facing a large video wall, flanked by conference rooms and offices for both officers and support staff. Within the JOC is a secure area consisting of workstations, offices, and two divisible conference rooms with secure video conferencing capabilities. The secure area construction dictates a windowless environment, requiring proper lighting and creative use of materials to create an agreeable work atmosphere.



Adjacent to the JOC are three large training rooms, capable of seating 70 persons each. Lining the front of each room are LCD video walls with large, open areas for workstations, desks, and office equipment, as well as space for private offices. These rooms function primarily as training areas; however, their close proximity to the JOC allows maximum flexibility in securing the entire area from the rest of the building by means of card access-only doors.



The administrative office areas occupy a prominent position at the building's entry and consist of open office areas with workstations, private offices, conference rooms, and storage. The design of this area follows sustainable guidelines for daylighting, promoting a healthy work environment through the use of materials that comply with LEED requirements. The new 6,000-SF network server room, which serves as the base hub, occupies the second floor of the facility along with the building's engineering systems. All electrical, data and communications infrastructure is contained within raised access flooring throughout the building.

The 180,000-SF billeting (hotel) expansion more than triples the facility size and increases the total capacity from 189 guest rooms to 600 guest rooms and suites. Designed to relate to the existing architecture with similar scale, materials, textures, and massing, the addition also brings in new elements, such as iconic glazed building corner elements, to integrate the design of the new operations building. A new dedicated lobby with terrazzo tile flooring leads to a monumental stair with terrazzo treads, open risers, and a glass/stainless steel railing for access to the open lounge areas on the second and third floors.

The lobby's design provides a hotel atmosphere, underscored by the new Liberty Lounge, an upscale bar and restaurant area, with wood finishes salvaged from the gymnasium floor in the existing headquarters building. The new six "executive suites", are designed to the full amenities of corporate hotels.

# CONSTRUCTION & FACILITIES MANAGEMENT OFFICE

WVARNG



LOCATION:  
Charleston, West Virginia

SIZE:  
19,935 SF

COMPLETION:  
2008

CONTACT:  
General Melvin L. Burch  
WVARNG  
1707 Coonskin Drive  
Charleston, WV 25311  
304.561.6450



The Construction and Facilities Management Office (CFMO) Expansion project will bring all of the operations of the CFMO together under one roof. The branches that will occupy this facility include: Director of Engineering, Environmental, Planning and Programming, Facility Operations & Maintenance, Business Management, Resource Management, and Design and Construction. This new facility is located slightly to the front, and adjacent to the existing facility, lending prominence to the new construction, and providing a new aesthetic to the entire complex.

This transitional space was designed to connect the two structures, while maintaining a connection to the outside through use of natural light, direct visual connections to the exterior, large volumes, irregular geometries, and the use of 'natural' materials.

The entry design was coordinated with the Recruiting and Retention building to create an outdoor courtyard, along with new sidewalks, stairs and signage. The entry roof is sloped to provide a greater massing, while a lower canopy provides scale and protection from the elements. Large gathering and work spaces were located on the north elevation to take advantage of large expanses of glazing located to capture indirect light and views of Coonskin Park.

# MORGANTOWN READINESS CENTER

WVARNG



**LOCATION:**  
Morgantown, West Virginia

**SIZE:**  
50,000 SF

**COMPLETION:**  
Est. March 2012

**COST:**  
\$ 20M

**CONTACT:**  
General Melvin L. Burch  
WVARNG  
1707 Coonskin Drive



The Morgantown Readiness Center complex consists of over 50,000 square feet of heated space, additional unheated storage and approximately 32,000 square yards of rigid and flexible paving. The new facility will occupy a 35 acre tract on a former runway at the Morgantown Municipal Airport in Monongalia County.

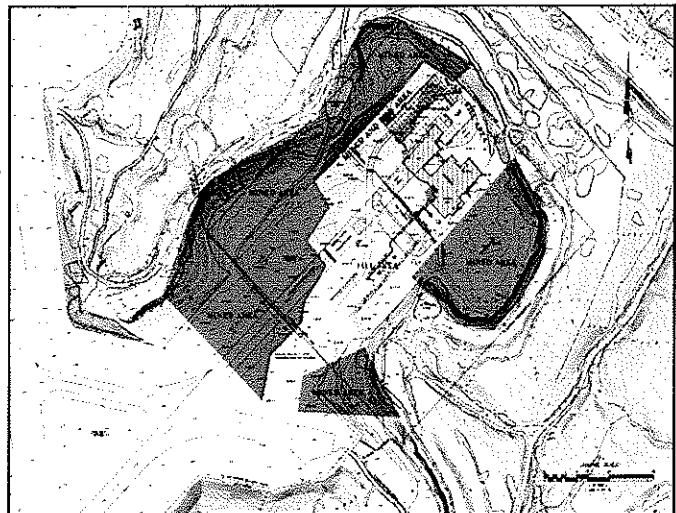
Capitol Engineering, Inc. (CEI) is performing all of the site investigation and site/civil design aspects of the project. Total project cost is estimated to be \$20,000,000.

The project includes the following major design elements:

1. Utilities and general site features
2. Military equipment parking, vehicle wash and fueling facilities, and loading ramp
3. Access roads and civilian parking lots

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. Mine subsidence investigation
5. Utility and construction easements



# KINGWOOD ARMED FORCES RESERVE CENTER

WVARNNG

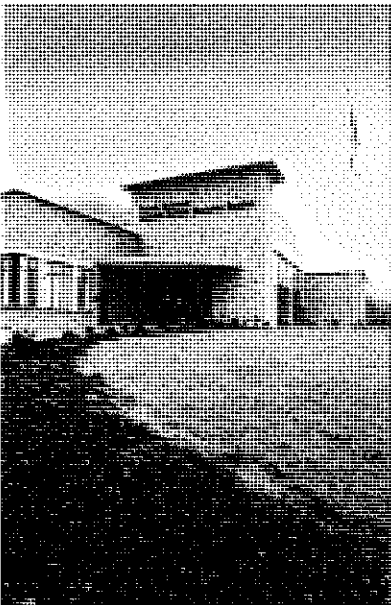
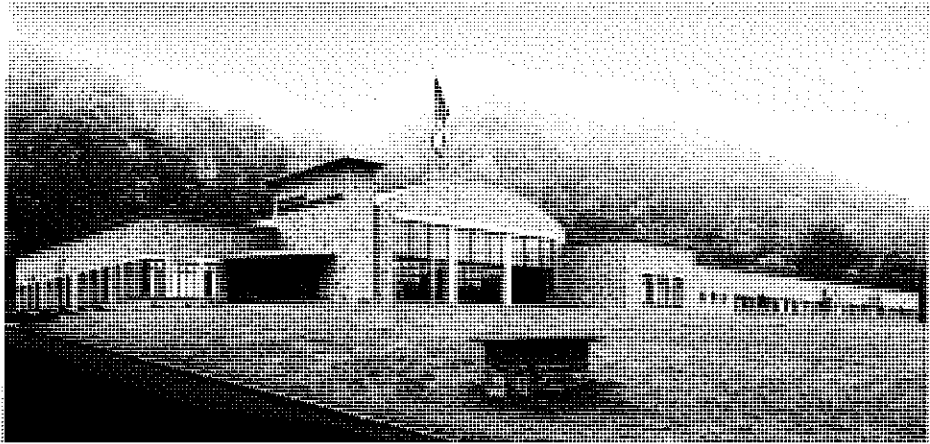


LOCATION:  
Camp Dawson, West  
Virginia

SIZE:  
56,200 SF

COMPLETION:  
2000

CONTACT:  
General Melvin L. Burch  
WVARNNG  
1703 Coonskin Drive  
Charleston, WV 25311  
304.561.6450



The Armed Forces Reserve Center will house five National Guard and Army Reserve Units and their support personnel. Its mission is twofold: first, to maintain readiness for its attached units and second, to serve as a resource to the surrounding community.

The primary readiness mission for the center's attached units is accomplished by providing designated spaces for each unit as well as general educational and gathering spaces that can be shared among the units.

The building's community mission is to provide a gathering space for social functions, a shelter-in-place in times of natural disaster, and a community education resource with distance learning network capabilities. It also includes kitchen and dining facilities and physical fitness areas.



# LOGAN - MINGO READINESS CENTER

WVARNG

**ZMM**

**CEI**

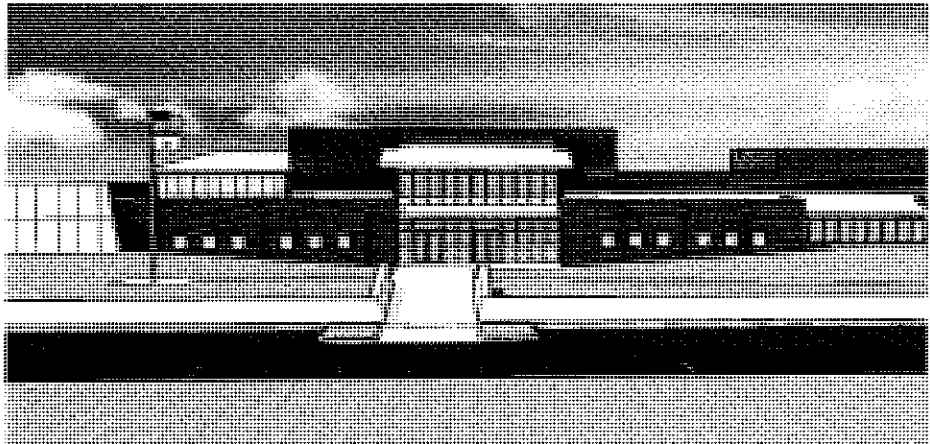
LOCATION:  
Logan, West Virginia

SIZE:  
54,000 SF

COMPLETION:  
Est.

COST:  
\$12 Million

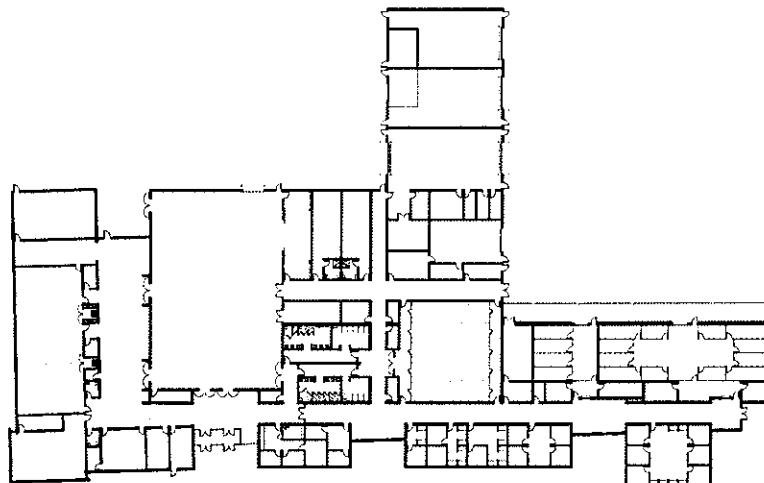
CONTACT:  
General Melvin L. Burch  
WVARNG  
1707 Coonskin Drive  
Charleston, WV 25311



The design of the Logan-Mingo Readiness center was developed by examining both the program and building site, and developing strategies to design a facility that is functional, responds to site, security, and aesthetic parameters, while requiring minimal maintenance.

The building layout was developed by working closely with the end-users to determine the appropriate configuration of building spaces to maximize the efficiency of the operations, and to respond to the unique missions of the 150<sup>th</sup> Armored Reconnaissance Squadron and the 156<sup>th</sup> Military Police (LNO) Detachment. Clear separation of "public" and "private" areas within the facility, unique office configurations related to training requirements, and the addition of State Funded additional spaces.

The exterior (and in many cases the interior) aesthetic of the facility was driven by the location of the Readiness Center within an industrial park on a reclaimed surface mined site. The decision led to the use of reinforced cast-in-place retaining walls that became both a functional and visual focus. Similar pre-cast walls are used to anchor the facility at the Distance Learning Center, while a cast-in-place retaining wall serves as a part of the Anti-Terrorism/Force Protection design.





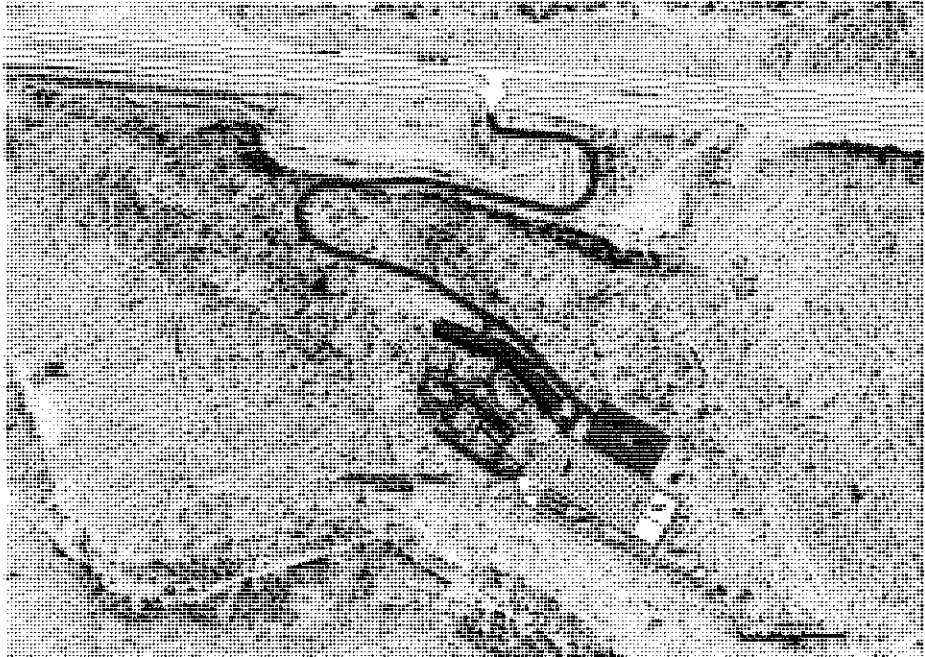
# ELKINS ARMED FORCES RESERVE CENTER

*Site and Civil Design*

**CEI**

LOCATION:  
Princeton, West Virginia

SIZE:  
65,000 SF  
22,000 Paving



The Elkins Armed Forces Reserve Center Project includes a Readiness Center, expanded drill hall, and a unit maintenance shop. The complex consists of over 65,000 square feet of heated space, additional unheated storage and approximately 22,000 square yards of rigid and flexible paving. The facility occupies a 112-acre tract between US Route 33 and the Tygart Valley River approximately five miles west of Elkins, Randolph 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:

1. Utilities
  - a. Water line extension
  - b. Sanitary sewer system, pump station, force main
2. Access roads and vehicle facilities
  - a. 8,800 SY Concrete paving
  - b. 14,000 SY Asphalt paving
  - c. Vehicle wash facility
  - d. Multiple secure motor pool areas
  - e. Multiple 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. Easement and right-of-way acquisition assistance

# SUMMERSVILLE READINESS CENTER

*Site and Civil Design*

**CEI**

**LOCATION:**  
Summersville, West Virginia

**SIZE:**  
70,000 SF  
21,000 Paving



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

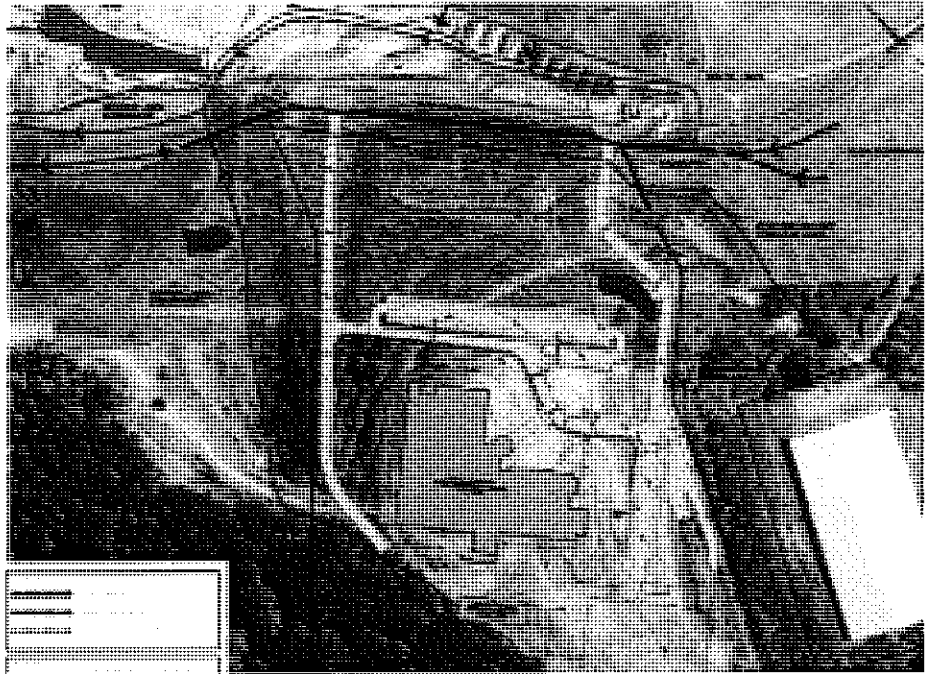
# FAIRMONT ARMED FORCES RESERVE CENTER

*Site and Civil Design*

**CEI**

LOCATION:  
Fairmont, West Virginia

SIZE:  
70,000 SF  
31,000SF Paving



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:

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

# ERMA BYRD CENTER

Public Higher Education Center



LOCATION:  
Beaver, West Virginia

SIZE:  
33,000 SF

COMPLETION:  
August 2007

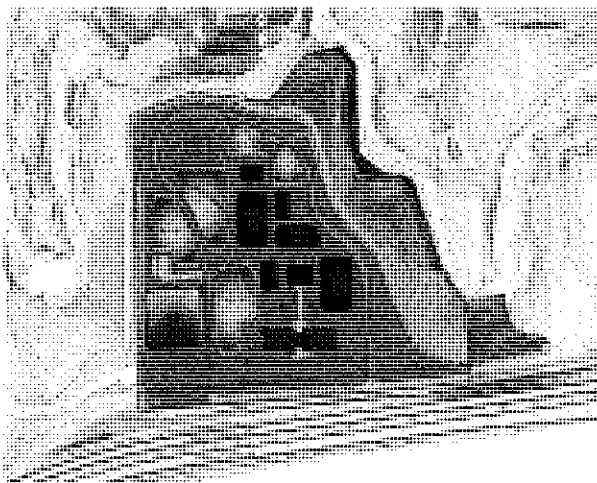
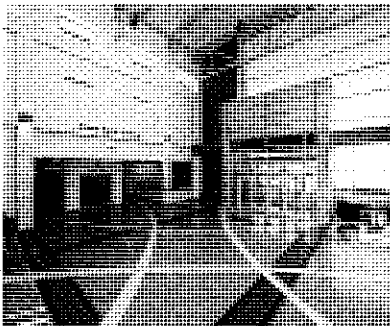
COST:  
\$7.5 Million

CONTACT:  
Thomas S. Acker S.J.  
Executive Director  
200 Main Street  
Beaver, WV 25801  
304.929.2010

#### AWARDS:

2008 AIA Honor Award  
West Virginia Chapter  
*Excellence in Architecture*

American School & University  
*Outstanding Building Design*



The Erma Byrd Center for Public Higher Education is the first building of its kind in the state. The 33,000 square foot center provides students the convenience of taking a variety of college classes offered by six different college and universities in a single location.

The new facility consists of standard classrooms, distance learning classrooms, a science lab, computer classrooms, a lecture hall, a multi-media library along with administrative office space for each college and university. Through technology, the building itself becomes an educational tool. Students are able to monitor the HVAC system and it's controls through web-based software thereby learning how the system works and how the climate and building design affect performance.

A wind turbine and solar panels on site assist in reducing the overall utility costs and allow students to see first-hand the benefits of alternative energy sources.

This Higher Education facility sets a new standard for the learning environment and energy efficiency. The building is designed to maximize use of natural light and has sensors throughout that control the artificial light level by measuring the amount of light present in the space.

The high-tech facility is the first building on what will become a campus for public higher education. It's placement at the front of the site allows the building to serve as a beacon of what is to come.

# LINCOLN COUNTY HIGH SCHOOL

Lincoln County Schools



LOCATION:  
Hamlin, West Virginia

SIZE:  
216,500 SF

COMPLETION:  
August 2006

COST:  
\$32 Million

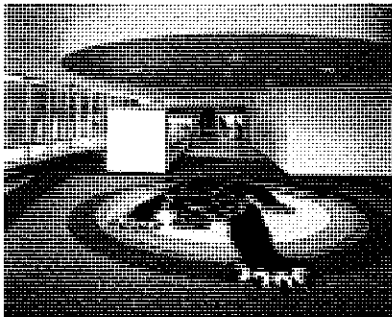
CONTACT:  
Mr. David Roach  
Superintendent  
10 Marland Avenue  
Hamlin, WV 25523  
304.824.3033

#### AWARDS:

2007 AIA Honor Award  
West Virginia Chapter  
*Excellence in Architecture*

Education Design Showcase  
*Project of Distinction award*

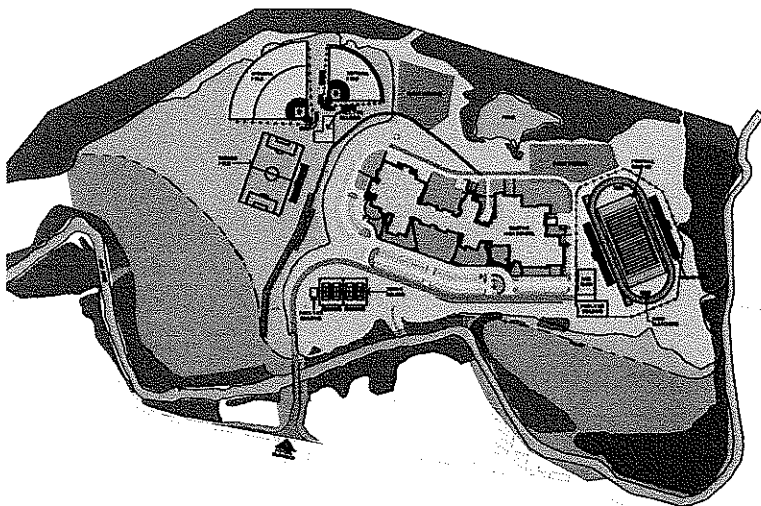
American School & University  
*Outstanding Building Design*



This consolidated senior high school for 850 students in grades 9 through 12, includes two gymnasiums with seating for 840 in the main gym, full food service facilities, a 300 seat auditorium, a library featuring state of the art technology, and all required curricular classroom spaces.

Vocational space is included in the facility making it one of the new breed of comprehensive high schools. The building is air conditioned with a four pipe, hot water/chilled water, air handling system meeting all indoor air quality requirements. It also includes LAN cabling system, integrated classroom intercom telephone and program system, closed circuit television, cable television system, fire alarm and perimeter security system.

This facility is one of the first educational buildings in the state to include sustainable building design features such as classroom daylighting with automatic lighting control, high efficiency HVAC equipment, and reduced storm water runoff.



# St. Albans High School

Kanawha County Schools



LOCATION:  
St. Albans, West Virginia

SIZE:  
216,500 SF

COMPLETION:  
2003

COST:  
\$24 Million

CONTACT:  
Dr. Ron Duerring  
Superintendent  
200 Elizabeth Street  
Charleston, WV 25523  
304.348.7732

#### AWARDS:

Impact on Learning Award  
*Effective Transformation*

Education Design Showcase  
*Outstanding Building Design*

American School & University  
*Outstanding Building Design*



The most outstanding feature of the completed renovation of St. Albans High School, in addition to its program functionality, is its unique, inviting physical entryway and the aesthetically pleasing and functional commons/cafeteria area. The committee intended this to become a visual focal point of the school creating a natural flow from the front entrance, through the commons and onto the rear, outside assembly/instructional area, as well as serving as a connecting hub between the academics and the more activity oriented areas.

The exterior environmental elements have also been positively addressed from the front of the building. Significant green space has been retained and enhanced which provides an inviting and safe approach to the high school building. An outside amphitheater located adjacent to the music and theater departments provides ample space for music and drama productions as well as a gathering space for students. In response to the students need for more "outside living space" the rear dining plaza was created. It not only has a visual impact on the interior but yields another flexible learning environment for the students and educators.

Members of the community and agencies within the community expressed the vision to incorporate a full "community center" within the high school building. Although it was not possible to fully integrate this within the facility, the addition of an auxiliary gym, renovations to the auditorium complex, a new media center and other additions and improvements do allow spaces for much more extensive use by the community. The renovations to the auditorium resulted in a facility that is not only educationally functional but has become a source of pride for the students as well as the community at large.

Provisions for new and emerging technologies and the application of technology were greatly enhanced throughout the building. With the new media center being the central hub for technology and with the inclusion of an appropriate infrastructure, both the current needs for technology are being met and flexibility will allow for the inclusion of future technology needs as they develop.



# St. Albans High School

Kanawha County Schools



**LOCATION:**  
St. Albans, West Virginia

**SIZE:**  
216,500 SF

**COMPLETION:**  
2003

**COST:**  
\$24 Million

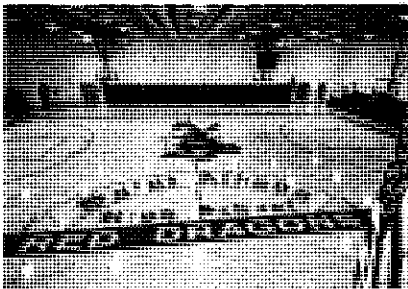
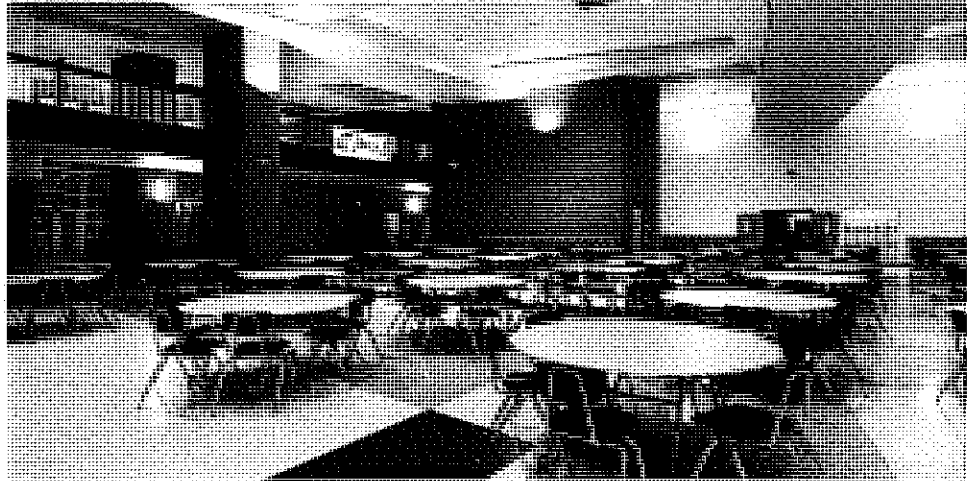
**CONTACT:**  
Dr. Ron Duerring  
Superintendent  
200 Elizabeth Street  
Charleston, WV 25523  
304.348.7732

#### AWARDS:

Impact on Learning Award  
*Effective Transformation*

Education Design Showcase  
*Outstanding Building Design*

American School & University  
*Outstanding Building Design*



Instructional spaces within the building have been designed to be flexible, adaptable and accommodating for the more active, student oriented instructional programs and methods which are desired of the district. Classroom and other spaces are bright, cheery and welcoming for students, staff and guests and appropriate space and equipment are provided within the school to allow for the efficient and effective delivery of program objectives.

This is especially evident within the new science spaces. Responding to concerns from students, staff and the community and due to the condition of existing science facilities, this area was completely replaced with modern, functional and flexible space and equipment.

St. Albans High School was completed during the summer of 2003 and was occupied by the student body at the beginning of the 2003-2004 school year. Unlike the process of constructing an entirely new building, provisions were necessary for housing the student body during the two year construction phase of the project. The school district made a commitment to use a nearby elementary building and to lease temporary buildings in order to provide uninterrupted programming for the student body.



# SOUTHSIDE ELEMENTARY/HUNTINGTON MIDDLE SCHOOL

*Cabell County Schools*



**LOCATION:**  
Huntington, West Virginia

**SIZE:**  
158,194 SF

**COMPLETION:**  
Est. 2010

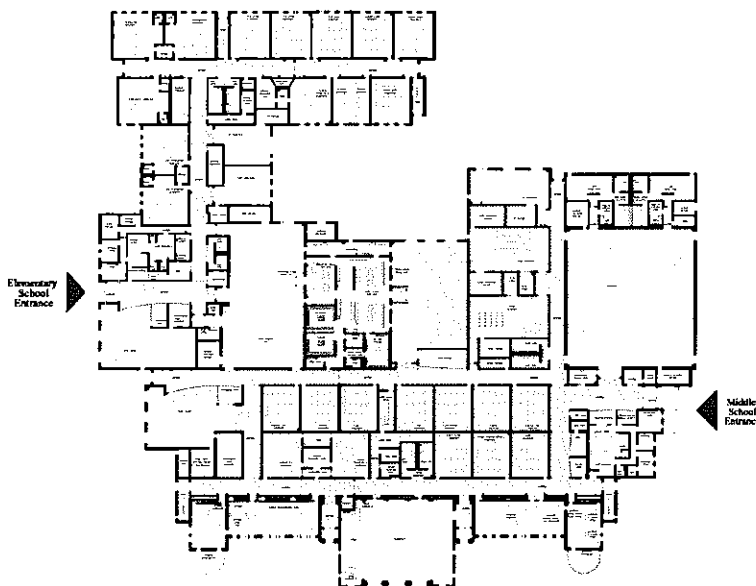
**COST:**  
\$27 Million

**CONTACT:**  
Mr. William Smith  
Superintendent  
2850 5th Avenue  
Huntington, WV 25702  
304.824.3033



The two schools that previously occupied the site of the New Southside Elementary School and Huntington Middle School were known as Cammack Elementary School and Cammack Middle School. The new facility will house a combined 1,014 Elementary and Middle School students. When the Cabell County Board of Education proposed a \$61M bond issue in 2006, the Huntington community expressed the importance of saving this neighborhood landmark.

The new facilities were designed to blend with the architectural character of the existing facility. More than 70% of the existing building was demolished and the existing building that remained was completely renovated and remains the focus of the community. Two new stair towers provide a vertical architectural element that separates the existing structure from the new construction. The result is a cohesive design that blends the unique elements of the former Cammack School into a modern educational complex that exceeds the requirements of 21<sup>st</sup> century learning.



Although the expanded facility houses both an elementary and a middle school, each have their own distinct entrance and administrative complex, the students remain physically separated on opposite sides of the facility. This was a key component for community support. The new schools will only share a kitchen, which has been located to serve separate dining facilities, to improve the efficiency of operation.

With the community's support of the bond, ZMM has designed a facility that maintains the historic character of the façade and auditorium, while replacing the remainder of the facility. The community has maintained a landmark, while developing new state of the art elementary and middle schools.



# State Office Building #5, 10th Floor

Office of Technology

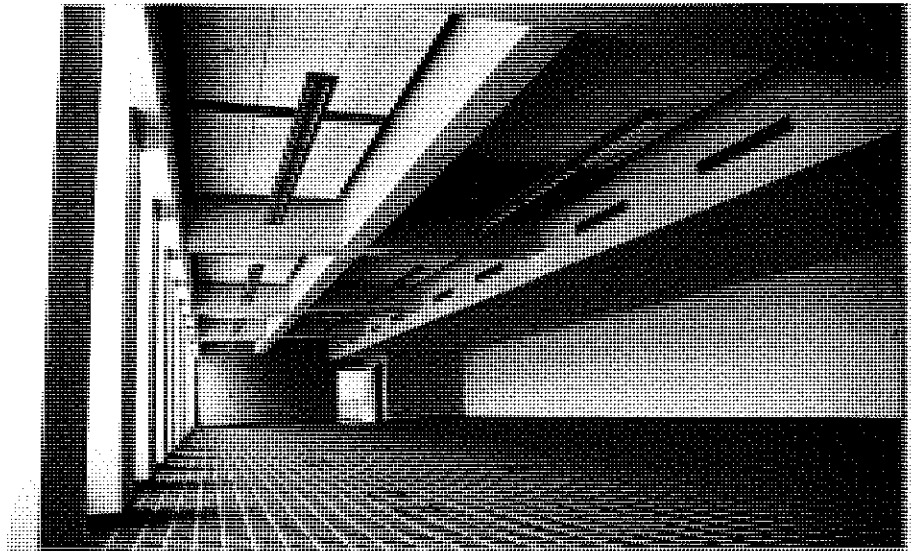


LOCATION:  
Charleston, WV

SIZE:  
22,000SF

COST:  
\$3.7M

COMPLETION:  
2010

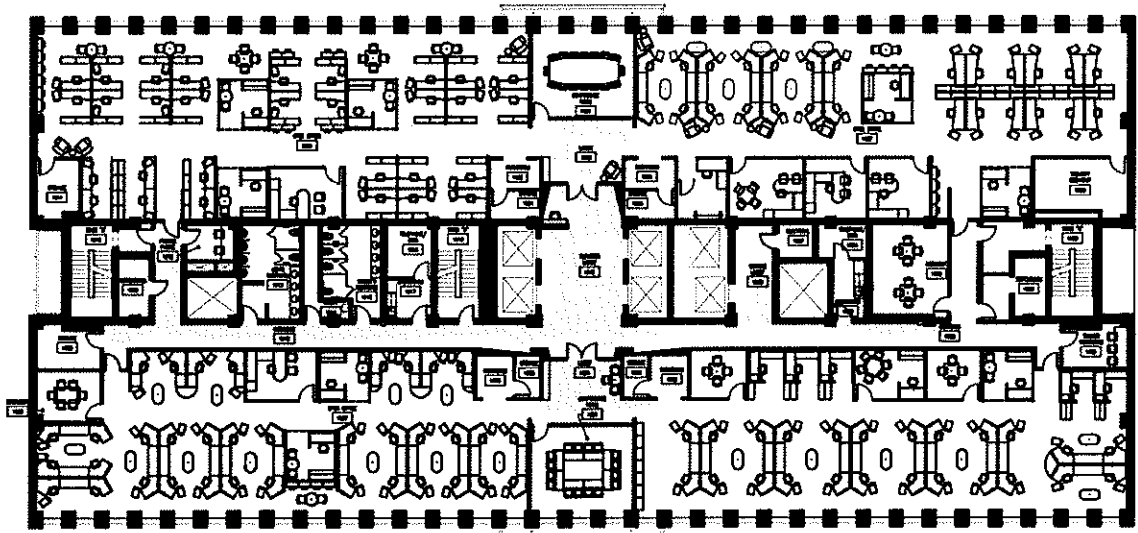


CONTACTS:  
Mr. David Oliverio  
Director  
General Services  
Division  
1900 Kanawha Blvd. E  
Charleston, WV 25305  
304.558.3517

Mr. Chuck Lawrence  
Director  
Department of Admini-  
stration  
Real Estate Division  
1409 Greenbrier Street  
Charleston, WV 25311  
304.558.4331

The renovation of the tenth floor of State Office Building #5 on the State of West Virginia Capitol Campus was recently completed for the Office of Technology. The renovation was designed to meet the United States Green Building Council's LEED for Commercial Interiors standard. To commence the project, ZMM conducted a detailed investigation of State Office Buildings 5, 6, & 7, which included recommendations for improvement of the facilities. The renovation of the 10<sup>th</sup> floor of Building #5 was the first major interior renovation project that responded to the recommendations. The renovation was technically intensive, and included demolition of the existing construction back to the building structure, as well as significant hazardous material abatement.

ZMM, working with the State of West Virginia General Services Division, the Real Estate Division, and the Office of Technology developed a strategy to renovate 22,000 SF of space to accommodate 137 employees. The design includes a mix of private and open office space, and responds to current workplace trends. The renovations include a low profile cable management system which maximizes the flexibility of the space. ZMM also developed the interior, furniture, fixture, and equipment design with significant coordination with the Office of Technology.



# State Office Building #5, 10th Floor

Office of Technology



LOCATION:  
Charleston, WV

SIZE:  
22,000SF

COST:  
\$3.7M

COMPLETION:  
2010

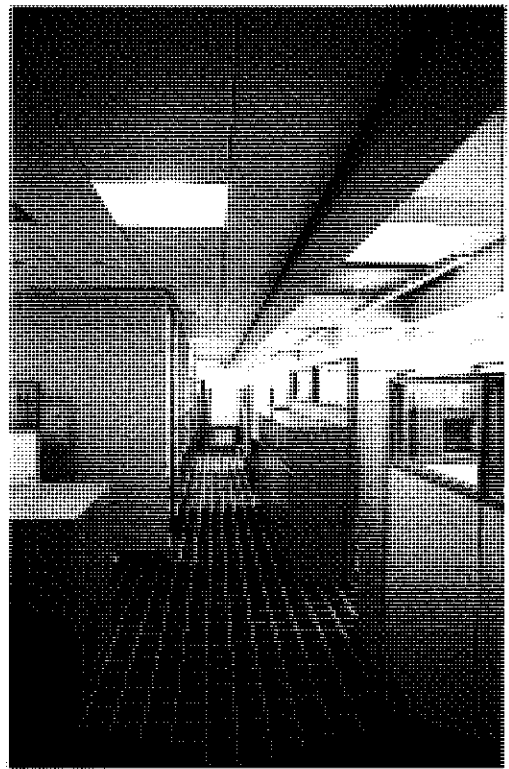
CONTACTS:  
Mr. David Oliverio  
Director  
General Services  
Division  
1900 Kanawha Blvd. E  
Charleston, WV 25305  
304.558.3517

Mr. Chuck Lawrence  
Director  
Department of Admini-  
stration  
Real Estate Division  
1409 Greenbrier Street  
Charleston, WV 25311  
304.558.4331



To improve the opportunity for day-lighting, office spaces have been "pulled-in" to the core of the building. This decision will allow for daylight to be introduced deep into the interior work areas, and will allow access to the daylight and views for all employees. The perimeter structural bays of the open office areas have a "coffered" ceiling. Ductwork for mechanical distribution is terminated at a bulkhead at the interior edge of the perimeter structural bay, allowing for more open volume and a more contemporary aesthetic.

The design of the 10<sup>th</sup> floor renovation also provided the opportunity to introduce a standard "transverse" core will be developed throughout State Office Buildings 5 & 6. The transverse core includes all of the major entry, meeting, and workroom functions. In addition to the office areas, the elevator lobby has been updated to create



# LEED ACCREDITED PROFESSIONALS



"I became a LEED Accredited Professional because I believe that good design has value and the ability to impact our daily lives. The application of sustainable design principles enhances this value, and employs an integrated design approach that can improve both our environment, as well as the performance of building occupants. Sustainable design showcases the value of design through demonstrated improvements in the performance of the students and employees who occupy our building."

- Adam R. Krason, AIA, NCARB, LEED AP



"Becoming a LEED AP was the culmination of years of environmental advocacy in the design community. Since then, it has allowed me to explore new avenues of design projects, and to provide leadership to clients, colleagues and the community. I believe LEED allows design teams to be more creative and cohesive because of the benefits of early project decision-making. It also makes design more fun!"

- Jill M. Watkins, IIDA, LEED AP



"I have been interested in sustainable design since learning about it while studying architecture and indigenous building techniques in the 1970's. I have continued my interest in sustainable design while designing various passive solar buildings. Becoming a LEED AP is a natural continuation in my interest in green building."

- Hank Walker, AIA, LEED AP



"I became a LEED Accredited Professional as a step in enabling and preparing myself for the design requirements of today, and certainly, the future. I believe that the continued and increased practice of sustainable design and living will be that bridge between losing an irreplaceable environmental health and flourishing in a world that is still unfolding."

- Mark T. Epling, AIA, NCARB, LEED AP



At ZMM, we believe that sustainable design is just good design. We are leaders in West Virginia through our projects and our sharing of knowledge:

First green secondary school in West Virginia  
– Lincoln County Comprehensive High School  
First green higher education project in West Virginia – Erma Byrd Center for Higher Education



Sustainable design partnerships with and LEED presentations for:

- The Clay Center
- Natural Capital Investment Fund
- West Virginia Department of Education
- West Virginia School Building Authority
- West Virginia Association of School Administrators
- West Virginia Department of Environmental Protection
- Habitat for Humanity of Kanawha and Putnam County
- Kanawha County Solid Waste Authority
- Half Moon Seminars
- Travel Green Appalachia

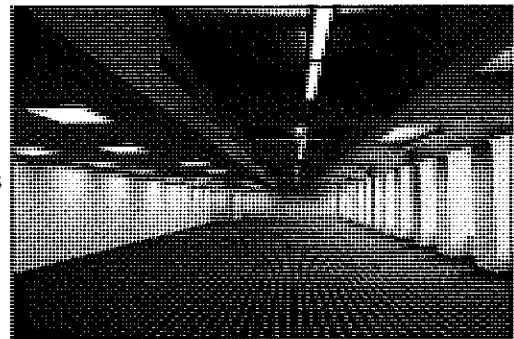
## Current LEED Registered projects:

### State of West Virginia Office Buildings #5, 6 and 7

These 3 existing office buildings, comprising nearly 500,000 square feet of space are in need of extensive upgrades to improve life safety and environmental safety of employees. Interior renovations will also significantly improve workers' morale and productivity. The project is registered under LEED-NC v2.2.

Highlights include:

- Recycling of all existing demountable partition systems plus construction waste management
- New Energy Star roofs reduce heat island effect
- Low flow fixtures and dual-flush toilets to reduce water use
- New windows and central HVAC system will reduce energy consumption
- Significant indoor air quality improvements
- 95% of all office furniture is Cradle-to-Cradle Certified and Greenguard Certified



## LEED EXPERIENCE



### West Virginia Army National Guard Joint Interagency Training and Education Center

This 230,000 square foot project at Camp Dawson in Kingwood, West Virginia is registered under LEED-NC v2.2. Program elements incorporate an operations training and simulation center for the National Guard Bureau, homeland defense and training offices, classroom spaces and a billeting (hotel) component. While the project and existing site is complex in nature, the project expects to achieve LEED Silver. Highlights include:

- Stormwater reduction measures (vegetative roof, bioswales, etc.)
- Low flow fixtures, waterless urinals and dual-flush toilets to reduce water use
- Enhanced commissioning
- Highly efficient HVAC systems
- Construction waste management
- Increased use of local materials
- Increased indoor air quality measures



### West Virginia Army National Guard Ripley Armed Forces Reserve Center, Jackson County

At 63,000 square feet, this new reserve center gets its inspiration from a Georgian-style house that sits on the site. Registered under LEED-NC v2.2, sustainable design highlights include:

- Stormwater – reduced quantity and increased quality measures
- Low flow fixtures, waterless urinals and dual-flush toilets to reduce water use
- Vertical and horizontal exterior sunshades plus superior glazing
- Highly efficient HVAC system
- Construction waste management
- Increased use of local materials
- Increased indoor air quality measures

## LEED EXPERIENCE



### West Virginia Army National Guard Morgantown Readiness Center

At almost 70,000 square feet, this new readiness center will serve as a gateway to the Joint Interagency Training and Education Center at Camp Dawson. Registered under LEED-NC v2.2, sustainable design highlights include:

- Stormwater – reduced quantity and increased quality measures
- Heat island effect reduction
- Low flow fixtures, waterless urinals and dual-flush toilets to reduce water use
- Highly efficient HVAC system
- Increased use of local materials
- Construction waste management
- Increased acoustical performance



We also anticipate having 4 additional LEED Registered projects within the next 3 months.

In addition to the above, ZMM's Sustainability Coordinator, Jill Watkins, has nearly 15 years of experience with sustainable design and LEED, including significant contributions to:

- New Federal Courthouse, Youngstown, Ohio – the first courthouse in the U.S. and the first building in Ohio to become LEED Certified
- Cleveland State University New Recreation Center – LEED Consultant – project is LEED Certified
- Procter & Gamble / Gillette Headquarters – Boston Green Building Standards required strict adherence to LEED-NC – Anticipated LEED credits and sustainable design features led to P&G's green building standards for all U.S. facilities
- Cubellis, Inc., Boston, Massachusetts – LEED-CI Gold Registered
- Raytheon, Waltham, Massachusetts – LEED-CI Gold Registered

# ADAM R. KRASON

AIA, NCARB, LEED AP



## Position

Architect, Principal

## Education

Bachelor of Architecture; The Catholic University of America, Washington, D.C.; 1998

B.S., Civil Engineering; The Catholic University of America, Washington, D.C.; 1998

## Employment History

2008 - Present, Vice President

2003 - 2008, Project Architect

1998 - 2003, Project Architect, Charleston Area Architectural Firm

1998, Consultant, Anderson Consulting

## Professional Credentials

Registered Architect: West Virginia and Ohio

LEED Accredited Professional

Construction Specifications Institute – CDT

Member of American Institute of Architect

NCARB Certification

## Civic Affiliations

West Virginia Vision Shared-Sustainable Economic Development Team

West Side Main Street Design Committee, Charleston, West Virginia

West Virginia Qualifications Based Selection Council

Development Council, St. Agnes School, Charleston, West Virginia

## Professional Experience

Mr. Krason's experience includes all aspects of the design and production of small and large projects with an emphasis on Military, Public, Government Facilities, Educational Facilities and Industrial Facilities. Mr. Krason also serves on ZMM's Board of Directors.

Specific project responsibilities: building programming, code compliance review, assistance with the preparation of architectural specifications, project budgeting and scheduling, schematic design compliance with project requirements, and the general overview of each project to ensure client expectations.

## Project Experience

West Virginia Army National Guard - Logan Readiness Center

West Virginia Army National Guard - Morgantown Readiness Center

West Virginia Army National Guard - CFMO Expansion Project

Joint Interagency Training and Educational Center (JITEC)

State of West Virginia Division of Juvenile Services

Wood County Justice Center

West Virginia University at Parkersburg, Downtown Facade

Parkersburg Catholic Schools

Mountaineer Middle School

Nicholas County High School Additions/Renovations

State Office Building 5, 6, & 7 Analysis, 10th Floor Renovation



**Position**

Principal, Capitol Engineering, Inc

**Education**

M.S., Engineering, Marshall University Graduate College, 1997

B.S., Engineering Technology, West Virginia Institute of Technology,  
1989

**Employment History**

2000 - Present, Capitol Engineering Inc., Charleston WV

**Professional Credentials**

Society of American Military Engineers

American Society of Civil Engineers

American Institute of Architects

Construction Specifications Institute

**Professional Experience**

Project Manager with fifteen (15) 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 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.

**Project Experience**

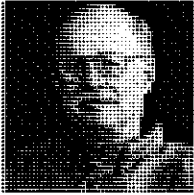
Mr. Fuller was principal or project manager for the following West Virginia Army National Guard Projects completed by Capitol Engineering, Inc.

Logan County Feasibility Study  
Ripley Armed Forces Reserve Center  
Elkins Armed Forces Reserve Center  
Fairmont Armed Forces Reserve Center  
Morgantown Readiness Center  
Summersville Readiness Center  
Kingwood Readiness Center  
Glen Jean Armed Forces Reserve Center  
Mingo-Logan Sitting Study  
Camp Dawson Runway Extension  
Camp Dawson Fuel Canopies  
Williamson Armory Wash Pad and Military Parking



# STEVEN BRANNER

AIA



## Position

Principal  
Corporate Management  
Architectural Programming  
Architectural Design and Production

## Education

B.S., Architecture; University of Cincinnati, Cincinnati, Ohio; 1967

## Employment History

1967-1973, Project Architect; ZMM  
1973-1982, Director of Architecture; ZMM  
1982-present, President; ZMM

## Professional Credentials

Registered Architect (WV, VA, OH, KY, FL, NY, CA)  
NCARB Certification  
Professional Member; American Institute of Architects (WV)  
President, 1977 & 1978

## Civic Affiliations

Member; South Charleston Rotary Club  
Past member and Chairman, WV Archives & History Commission

## Professional Experience

Mr. Branner has been employed with ZMM since 1967. His experience includes all aspects of the management, design, and production of small projects to those exceeding \$100M with an emphasis on Military / Public / Governmental Facilities, Correctional Facilities, and Industrial Facilities.

Mr. Branner also maintains an active role in each project in which he is the principal-in-Charge from its inception through construction completion. Specific project responsibilities include contract negotiation, building programming, project budgeting, and scheduling, schematic design compliance with project requirements, cost estimating, quality control, and the general overview of each project to insure that client expectations are met.

## Major clients overseen by Steve include:

State of West Virginia Division of Juvenile Services  
West Virginia Regional Jail & Correctional Facility Authority  
West Virginia Army National Guard  
Dow Chemical Company  
NGK Spark Plug Company  
Cecil I. Walker Machinery Company  
West Virginia General Services Division  
Kanawha County Public Library  
Charleston Area Medical Center (CAMC)  
Highland Hospital

# ROBERT C. DOEFFINGER

PE



## Position

Principal, Engineering Project Manager  
Corporate Management, Project Management and Coordination, Engineering  
Programming and Design

## Education

B.S., Mechanical Engineering; West Virginia University, Morgantown, West  
Virginia; 1973

M.S., Architectural Engineering; Pennsylvania State University, University  
Park, Pennsylvania; 1976

## Employment History

1982-present, Vice-President, Secretary and Treasurer; ZMM

1977-1982, Director of Engineering; ZMM

1976-1977, Mechanical and Architectural Engineer; ZMM

## Professional Credentials

National Council of Examiners for Engineering and Surveying (NCEES)  
Registered Engineer (WV, TN, FL, PA, VA, NC, SC, ME, OH, NH, NY, KY)  
Member; ASHRAE - Chairman, Technical Committee 4.1 - HVAC Load Cal-  
culations

## Civic Affiliations

Councilman; City of Point Pleasant, WV

Director; Mason County Development Authority

Director; Point Pleasant River Museum

Member; West Virginia Institute of Technology Electrical Engineers Technical  
Advisory Committee

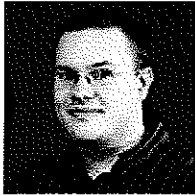
## Professional Experience

Mr. Doeffinger is Principal-in-Charge of Engineering. It is his responsibility to ensure that the mechanical and electrical engineering components of ZMM's design are coordinated and integrated into the final product.

Mr. Doeffinger is responsible for new design and retrofit of chilled water systems for all building types including large regional shopping malls. He is involved daily with the firm's selection of appropriate systems for all building types and performs life cycle cost and energy studies.

Mr. Doeffinger is a member of the American Society of Heating, Ventilation and Air-Conditioning Engineers. He is the current national Chairman of the Technical Committee on Heating and Air-Conditioning Load Calculation. He is involved in writing the National Standard on the Method of Calculation, which will shape the nature of the future building energy use for the nation.

# NATHAN SPENCER, AIA



## **Position**

Architect, ZMM, Inc

## **Education**

Bachelor of Architecture, University of Tennessee, Knoxville, TN, 2007  
Architectural Drafting and Construction Technology, West Virginia State College, Institute, WV

## **Employment History**

2009 - Present, Architect, ZMM, Inc.  
2007 - 2008, Designer, ZMM, Inc.  
2003 - 2006, Summer Intern, ZMM, Inc.

## **Professional Credentials**

American Institute of Architects (WV)

## **Professional Experience**

Mr. Spencer has been employed by ZMM since 2003 when he started working as an intern. Experience includes the production of architectural drawings throughout all phases of the project.

Mr. Spencer has background developing both 3-D and physical models along with construction document production. Mr. Spencer works closely with the project architect to efficiently produce clear and accurate drawings to ensure that client expectations are met.

## **Project Experience**

State of West Virginia Division of Juvenile Services  
Joint Interagency Training Educational Center (JITEC)  
WV Army National Guard - Logan Readiness Center  
WV Army National Guard - Morgantown Readiness Center  
WV Army National Guard - Ripley Readiness Center  
WV Army National Guard - CFMO Expansion Project  
Judge Black Courthouse Annex  
Martha Elementary School  
Hacker Valley Pre-K-8 School  
Southside Elementary/Huntington Middle School  
Highland Medical Facility  
The Boulevard at 2412 - Residential Housing Project

# JILL M. WATKINS

IIDA, LEED AP



## Position

Sustainability Coordinator

## Education

Bachelor of Science, Interior Design, The University of Tennessee, Knoxville, TN, May 1993

## Employment History

2008 - Present, Interior Designer/Sustainability Coordinator, ZMM

2005 - 2008, Cubellis, Boston MA

2004 - 2005, Wolf Maison Limited, Cleveland, OH

2003 - 2004, Doty & Miller Architects, Bedford, OH

1999 - 2003, URS Corporation, Cleveland, OH

1998 - 1999, KA, Inc. Architects, Cleveland, OH

## Professional Credentials

Professional Member IIDA

NCIDQ Certificate, October 1997

LEED Accredited Professional, April 2003

## Professional Experience

Ms. Watkins has over 15 years of experience in the field of architecture, focusing on high quality and sustainable design. She has been involved in several detailed programming efforts for both new construction and interior renovations. Ms. Watkins has participated in a six week endeavor that entailed developing building standards, preparing final documentation, verifying existing conditions, as well as reviewing questionnaires.

Other experience includes Space Planning on a variety of projects, such as open offices, science labs, dental offices, CEO Suites and Classrooms.

Project responsibilities also include, Schematic Design & Design Development, Construction Documents, Finish Selection, Furniture Selection, Lighting Design and Sustainability Coordination

## ZMM Project Experience

Joint Interagency Training and Education Center (JITEC)

Highland Hospital

West Virginia Housing Development Fund

West Virginia State Office Buildings 5, 6, & 7

Wood County Justice Center

West Virginia Army National Guard - Ripley Armed Forces Reserve Center

## Additional Project Experience

The University of Akron Arts & Sciences/Student Affairs Building

Cleveland State University - Recreation Center/Library Renovation

Notre Dame College of Ohio - Multiple Projects

Beachwood Middle School

Midwest Research

Procter & Gamble - Gillette Headquarters

# SCOT CASDORPH

PE



## Position

Electrical Engineer

## Education

B.S., Electrical Engineering; West Virginia University Institute of Technology, Montgomery, West Virginia; 1995

## Employment History

2000 - Present, Electrical Engineer, ZMM, Charleston, WV

1995 - 1999, Electrical/Control Systems Designer, WV Engineering Firm

## Professional Credentials

Professional Engineer (WV)

## Professional Experience

Mr. Casdorph started his career in 1995 as an electrical/control systems designer. He is responsible for Electrical Design and Engineering on various ZMM projects.

### Responsibilities Include:

Lighting Design (Interior & Exterior)

Electrical Power Distribution

Security System Design

Data System Design

Fire Alarm System Design

Sound System Design

Division 16 Specifications

Electrical Drafting & Design CAD

## Project Experience

Southside Elementary and Huntington Middle School

Milton Middle School

Wayne Elementary School

Martha Elementary School

laeger Elementary School

Lincoln County High School

West Virginia Juvenile Detentions Centers

WV Army National Guard - Logan Readiness Center

WV Army National Guard - Morgantown Readiness Center

CFMO Expansion Project

WV Army National Guard - Glen Jean Armed Forces Center

# MARY JO CLELAND

PE



**Position**  
Civil Engineer

**Education**

B.S., Aerospace Engineering, U.S. Naval Academy, Annapolis, MD 1993  
B.S., Math and Science Education, WV State College, Institute, WV, 2001

**Employment History**

2008-Present, Civil Engineer, ZMM  
2001-2008, Staff Engineer, Potesta & Associates, Inc.

**Professional Credentials**

Registered Engineer (WV)

**Professional Experience**

Ms. Cleland has experience in both civil and environmental engineering. She has extensive knowledge of sanitary sewer collection system design, wastewater treatment plant design, grading plans, site utility design, and associated permit applications preparation.

Her environmental remediation experience includes Phase I Environmental Site Assessments, Phase II Environmental Site Assessments, and participation in Baseline Human Health Risk Assessments. Ms. Cleland consulted on the air pollution permit applications and general permit applications for large and small emission units, such as standby/emergency generators for site development projects.

**Project Experience:**

Hacker Valley K-8 School  
Martha Elementary School  
Milton Middle School  
Barboursville Middle School  
Harts K-8 School  
Bradshaw Schools, McDowell County  
Parkersburg Catholic Athletic Annex  
State of WV Office Buildings 5, 6 & 7  
Highland Medical Facility  
Goodwill Industries Addition  
Cedar Lakes Conference Center Roadwork  
Kanawha Valley Senior Services  
West Virginia Housing Development Fund

# STEPHEN E. HEDRICK II

PE



## Position

Structural Engineer, ZMM

## Education

B A., Civil Engineering, West Virginia University Institute of Technology, Montgomery, WV, 1996-2001

M A., Civil Engineering - Structural, University of Tennessee Knoxville, TN, 2001-2003

## Employment History

2007-Present, ZMM

2003-2007, Principal Engineer, McCall Engineering, LLC, Sarasota, FL

2001-2003, Teaching Assistant and Thesis Research, University of Tennessee, Knoxville, TN

## Professional Credentials

Professional Engineer (PE), 2007

Certified Engineer in Training (EIT), 2001

## Professional Experience

Responsible for structural engineering design of residential structures, commercial structures, institutional structures and small scale bridges.

Mr. Hedrick has researched and developed design criteria for structural insulated panels, prepared design calculations for earthquake and wind design of FRP tanks. His role has also included supervising the work of design engineers in preparation of construction documents.

## Project Experience

Southside Elementary/Huntington Middle School

Highland Medical Facility

New River Elementary - Supplemental Support

Hacker Valley Elementary - Supplemental Support

Barboursville Middle School - Supplemental Support

Glen Jean Armed Forces Center - Joist Reinforcement

West Virginia Cultural Center



**Position**

Senior Mechanical and Electrical Engineer

**Education**

B.A., English, West Virginia University, 1972

2 Years toward B. S., Mechanical Engineering, WVIT, 1974-1975

M.A., Humanities, Marshall University Graduate College, 2004

**Employment History**

1989-Present, ZMM, Senior Mechanical Engineer

1976-1989, Charleston Area Engineering Firm, Project Manager

1972-1976, Charleston Area Engineering Firm, Designer

**Professional Credentials**

Registered Engineer (WV)

Member of ZMM's Board of Directors

Member of ASHRE

**Professional Experience**

Mr. Cook started his career in 1972 as a designer for an engineering firm in Charleston, WV. He is a Professional Engineer registered in West Virginia. He has designed and engineered many projects throughout the state of West Virginia.

Responsibilities Include:

Mechanical Design and Engineering.

Serves as liaison between clients and utility companies.

Design of sanitary and gas site utilities, site utility specifications.

In-house review of plumbing, sprinkler system, fire pump, and domestic water booster pump designs.

Review of plumbing, fire protection specifications, and temperature control design.

Equipment selection - air handling units, pumps, and boilers, site visits, observation reports and punch lists.

**Project Experience**

State of West Virginia Division of Juvenile Services

West Virginia Regional Jail & Correctional Facility Authority

WV Army National Guard - Glen Jean Armed Forces Center

WV Army National Guard - Logan Readiness Center

WV Army National Guard - CFMO Expansion Project

Highland Hospital

Saint Albans High School

Lincoln County High school



# MICHAEL D. ABERNETHY

LC, IESNA



## **Position**

Electrical and Lighting Designer

## **Education**

A.S. Drafting and Design Engineering Technology, WV Institute of Technology, 1970

IESNA Certificate of Technical Knowledge (TKE) in Lighting Design

## **Employment History**

1992-Present, ZMM, Electrical Designer/Technician

1988-1992, W. Va. Signal & Light, Inc., Construction Estimator/Purchasing Agent & Office Manager

1973-1988, ZMM, Electrical Designer/Technician

## **Professional Credentials**

Lighting Certified by the National Council on Qualifications for the Lighting Professions (NCQLP)

Master Electricians License (West Virginia)

## **Professional Experience**

Mr. Abernethy is responsible for interior and exterior building lighting design, lighting control and energy management system design, building electrical power distribution design, data system design, sound system design, fire alarm system design, security system design, closed circuit TV System design, emergency generator system design, Division 16 specification writing, commercial building electrical cost and budget estimating, electrical design and production time estimating and existing and new facilities inspection and documentation at ZMM.

In addition to Mr. Abernethy's design responsibilities, he also serves on ZMM's AutoCAD production committee.

Mr. Abernethy started his career in 1970 in the field of drafting for the United States Army and FMC Chemicals in Charleston, WV. He began his electrical design experience in 1973 at ZMM. He is a certified Lighting Designer recognized by the National Council on Qualifications for the Lighting Professions and a Licensed Master Electrician in the State of West Virginia.

## **Project Experience**

Erma Byrd Higher Education Center

Lincoln County High School

St. Albans High School

Southside Elementary/Huntington Middle School

Martha Elementary School

Greenbrier East High School



**Position**

Construction Administration, ZMM

**Education**

Certified by the WV Department of Highways as Nuclear Compaction Technician, Bituminous Concrete Technician, Aggregate Technician, Portland Cement Concrete Technician  
Certified Construction Document Technologist, Construction Specification Institute

**Employment History**

1991-Present, Construction Administrator, ZMM  
1985-1991, West Virginia Board of Regents, Charleston, WV  
1979-1984, Charleston Area Architectural Firm, Charleston, WV

**Professional Credentials**

CSI, Certified Construction Specifier (Construction Specification Institute)  
CDT, Certified Construction Document Technologist

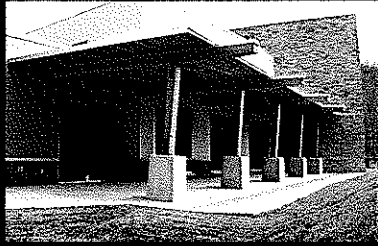
**Civic Affiliations**

Associate Member, American Institute of Architects, West Virginia

**Project Experience**

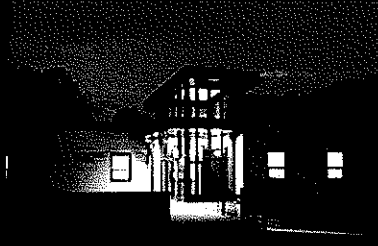
State of West Virginia Division of Juvenile Services  
West Virginia Regional Jail & Correctional Facility Authority  
Job Corps Center, WV  
Sears, Roebuck & Company, Retail Centers  
Cabell County Schools, WV

# Award Winning Design



2010

Hacker Valley PK-8 School  
Hacker Valley, WV  
2010 - Honor Award  
*"Excellence in Architecture"*  
AIA West Virginia Chapter



2009

Construction & Facilities  
Management Office  
Charleston, WV  
2009 - Merit Award  
*"Achievement in Architecture"*  
AIA West Virginia Chapter



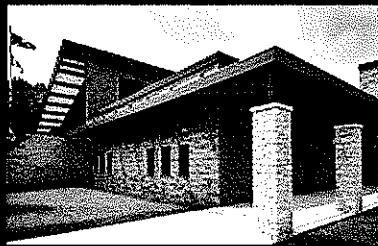
2008

Erma Byrd Center  
Beckley, WV  
2008 - Honor Award  
*"Excellence in Architecture"*  
AIA West Virginia Chapter



2007

Lincoln County High School  
Hamlin, WV  
2007 - Honor Award  
*"Excellence in Architecture"*  
AIA West Virginia Chapter  
Education Design Showcase  
*"Project of Distinction Award"*  
American School & University  
*"Outstanding Building Design"*



2006

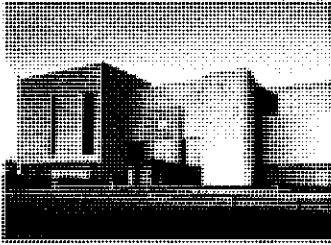
Gene Spadaro  
Juvenile Center  
Mount Hope, WV  
2006 - Merit Award  
*"Achievement in Architecture"*  
AIA West Virginia Chapter



2004

St. Albans High School  
St. Albans, WV  
2004 - Impact in Learning Award  
*"Effective Transformation"*  
Education Design Showcase  
*"Outstanding Building Design"*  
American School & University  
*"Outstanding Building Design"*

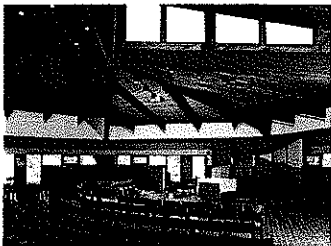
## Additional Award Winning Design



### **West Virginia Society of Architects Design Honor Awards**

**Corporate Headquarters Facility**  
Blue Cross / Blue Shield of West Virginia  
Charleston, West Virginia

**John XXIII Pastoral Center**  
Wheeling-Charleston Diocese  
Charleston, West Virginia

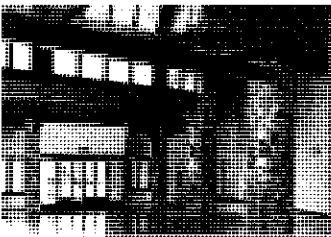


**Corporate Office Building**  
Contractors' Association of West Virginia  
Charleston, West Virginia

**One Bridge Place Office Renovation**  
Fisher-Bryson Properties  
Charleston, West Virginia



**United States Navy  
Admiral's Commendation  
Operations Building Alterations**  
Naval Security Group  
Sugar Grove, West Virginia



**Construction Specifications Institute  
Honorable Mention  
Restoration and Renovation Projects**  
Cottage Renovations to Federal Prison Camp  
Alderson, West Virginia

**Stonewall Jackson Lake  
Merit Award  
Design and Environmental Program**  
Recreation Area Basic Park  
Weston, West Virginia



**WEST VIRGINIA ARMY NATIONAL GUARD  
CONSTRUCTION & FACILITIES MANAGEMENT OFFICE**

1707 Coonskin Drive

Charleston, West Virginia 25311-1085

Phone: 304-561-6339 Fax: 304-561-6458 DSN: 623-6339



15 April 2009

WV Higher Education Policy Commission  
Chief Procurement Officer  
Richard Donovan  
1018 Kanawha Blvd. East  
Suite 700  
Charleston, WV 25301

Dear Mr. Donovan,

The AECOM/ZMM Team has been assisting the West Virginia Army National Guard with the design of a 285,000 SF addition to the Robert C. Byrd Regional Training Institute (RTI) at Camp Dawson, near Kingwood, West Virginia. The new JITEC (Joint Interagency Training and Education Center) will include highly flexible educational facilities that will serve a dual use in the case of a state wide or national emergency. These facilities will include sophisticated data systems, video walls, and also incorporate a high level of electronic security.

The AECOM/ZMM Team has exceeded our expectations, delivering a high level of local expertise, complimented by the knowledge base of a large design firm. The Team's commitment to design quality has been demonstrated through the development of a site strategy that evokes a campus, while maintaining all of the programmed spaces in one facility. The JITEC design balances the need to re-orient the campus while also complimenting the existing RTI. The technical ability of the AECOM/ZMM Team has also been demonstrated through the design of redundant power and HVAC systems, as well as through the examination of various building components to meet the requirements of LEED Silver.

The AECOM/ZMM Team has been very responsive and has done an excellent job of communicating the West Virginia Army National Guard's vision for this project. Additionally, the design team has provided these services within a compressed timeframe to meet our requirements. Please contact me if I can provide any additional information about our experience with the AECOM/ZMM Team.

MELVIN L. BURCH

Brigadier General

West Virginia Army National Guard

Assistant Adjutant General

# The County Commission of Wood County

No.1 Court Square, Suite 203  
Parkersburg, West Virginia 26101  
(304) 424-1984



**ROBERT K. TEBAY**

**RICK MODESITT**

**DAVID BLAIR COUCH**

**COUNTY ADMINISTRATOR**

Marty Seuser  
424-1976

**COUNTY CLERK**

Jamie Six  
424-1830

March 3, 2008

Dear Sir/Madam:

This is a letter of reference for Adam R. Krason, ZMM, Inc. The County Commission of Wood County has employed ZMM, Inc. on several projects, most notably the renovation of the Judge Black Annex.

Mr. Krason has always been extremely professional and has proven himself to be very flexible in meeting our needs. He is friendly and easy to work with. He has proven to be an asset to the County and we anticipate a long-term relationship with ZMM, Inc. in the coming years.

Sincerely,

THE COUNTY COMMISSION OF WOOD COUNTY

A handwritten signature in black ink, appearing to read "Robert K. Tebay", is written over a horizontal line.

Robert K. Tebay, President

A handwritten signature in black ink, appearing to read "Rick Modesitt", is written over a horizontal line.

Rick Modesitt, Commissioner

A handwritten signature in black ink, appearing to read "David Blair Couch", is written over a horizontal line.

David Blair Couch, Commissioner

WCC:ah

# The Higher Education Foundation

200 MAIN STREET, BECKLEY, WEST VIRGINIA 25801-4613

TELEPHONE 304 929-2010 FACSIMILE 304 929-2009 forwardswv@earthlink.net

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January 22, 2008

Mr. Rod Watkins, Vice-President, AAIA, REFP  
ZMM, Inc.  
222 Lee Street West  
Charleston, WV 25302

Dear Rod,

Last week, January 14, 2008, we began the second semester of use of The Erma Byrd Center at the Public Higher Education Center campus, Beaver, West Virginia. This endeavor has been a significant triumph for our area and is the first of its kind in West Virginia. Seven public colleges/universities have come together in a single center in a spirit of cooperation rather than competition.

This is a note to thank you and the ZMM family for the critical role with excellence that you played in this project. Initially, we had worked with another architect in Pittsburgh, but unfortunately a series of events made continuance with them impossible. We were then met with crucial deadlines for reformulating an entire building with a very constricted timeline and an equally restricted budget. We turned to ZMM.

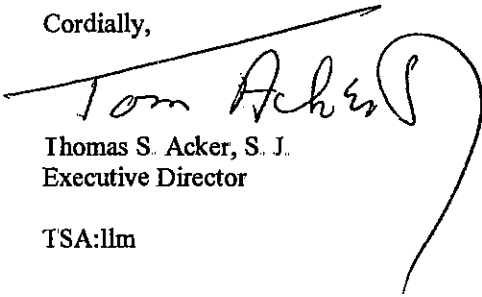
Our contract with you began in December, 2005. We had to complete architectural plans, bid the building, secure a contractor, and begin construction by July, 2006, in order to meet an opening date of August, 2007. ZMM was the perfect partner with us as we forged a new building on a yet raw campus and made it work.

The building designed by ZMM was elegant, yet simple. The budget parameters were met, including a striking view from I-64. The building design impresses all.

Radford & Radford was chosen as the builder, and ZMM worked with them expeditiously and effectively. The architectural plans were exceptionally clean, and the few change orders were almost entirely initiated by the owner as some afterthoughts developed. The project was completed on time, and the first semester was excellent. Over 131 classes were taught engaging 1,990 students.

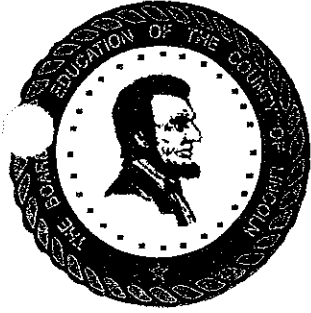
I simply wanted to send you this note of thanks for accepting a very daunting task, completing it with excellence, maintaining the very restricted budget, and making this whole project successful. We are now looking forward to a second building, and while we probably need by state law to seek architectural services through an RFP, I hope that ZMM will engage in the process. It would be to our benefit if ZMM were the winning architects. You have my highest recommendation and most sincere thanks.

Cordially,



Thomas S. Acker, S. J.  
Executive Director

TSA:llm



# Lincoln County Schools

David L. Roach  
SUPERINTENDENT

Jeff Huffman  
ASSISTANT SUPERINTENDENT

January 22, 2008

To Whom It May Concern:

As the previous superintendent of Cabell County Schools and present superintendent of Lincoln County Schools, I am in the unique position to comment on the services of ZMM, Inc., Architects and Engineers. They provided professional services in both of these counties and I found their services in both counties to be of the highest quality.

I have found, through my experiences with ZMM, that their services are equivalent to having additional employees of the school system. I base this statement on the fact that their representatives consistently monitor budget expenditures in order to stay within the project budget. Change orders are minimal and always justified. ZMM is present and accessible before, during and after project completion to assure the interests of the school system are being met. I particularly appreciate their support in dealing with contractors who may have remaining obligations or product deficiencies that need to be resolved following project completion.

Simply stated, ZMM works to assure that the interests of the client are met and refuses to bow to contractors by accepting less than quality work. I believe this is a rare quality and makes ZMM an elite company.

Sincerely,

David L. Roach  
Superintendent of Schools



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: ZMM, Inc.

Authorized Signature: [Signature], AIA Date: 14 June 2010

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 14th day of June, 2010

My Commission expires 10-6, 2018

AFFIX SEAL HERE

NOTARY PUBLIC [Signature]

