

Statement of Qualifications for



West Virginia Office of Miners'
Health, Safety, and Training

ZMM

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ARCHITECTS & ENGINEERS

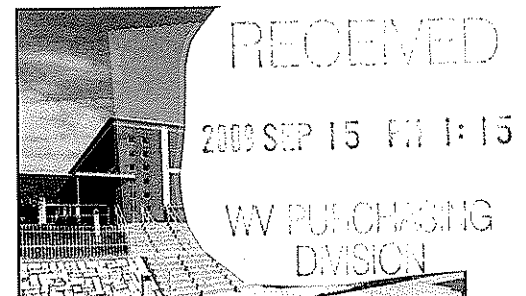
Professional
Architectural &
Engineering Services

Adam R. Krason, AIA, NCARB, LEED AP
ark@zmm.com



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ARCHITECTS & ENGINEERS



September 15, 2009

WV Office of Miners' Health, Safety, and Training

Cover

Cover Letter

ZMM: History, Philosophy, and Services _____ Tab 1

Experience (Projects) _____ Tab 2

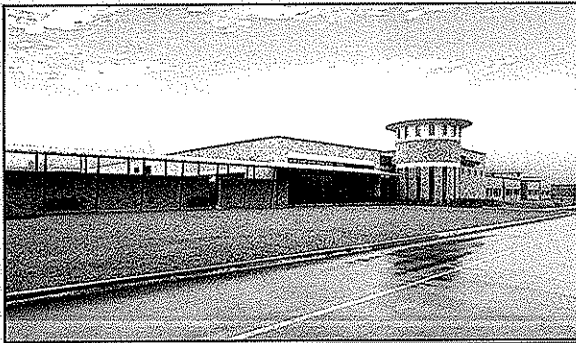
ZMM Team (Resumes) _____ Tab 3

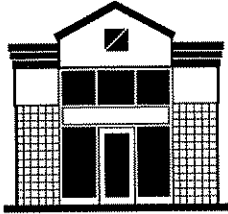
Sustainable Design, Reduced Energy Consumption _____ Tab 4

Project Approach _____ Tab 5

Construction Phase Services _____ Tab 6

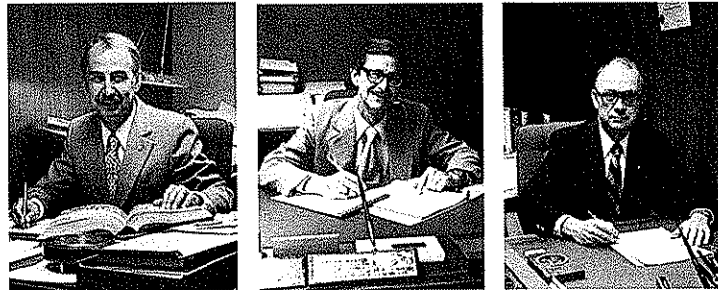
- Project Schedule Control
- Project Budget Control





History & Philosophy of ZMM

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.



The philosophy of ZMM was established early on by the original partners and continues today due to careful selection of contemporaries. At ZMM we are proud of our heritage of fine architecture, engineering and client service. This pride shows in everything we do, from the way we interface with clients to the way we deliver our designs.

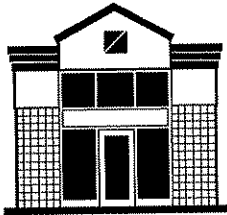




History & Philosophy of ZMM

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 forty 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.

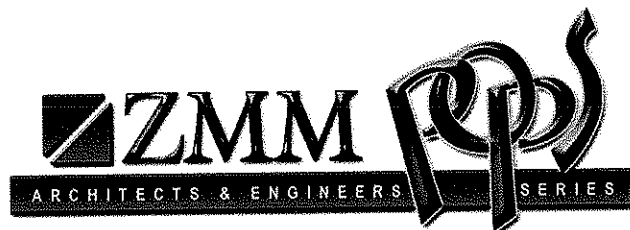
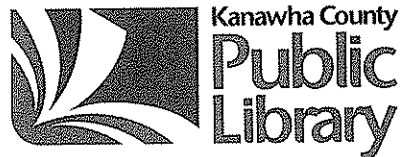


History & Philosophy of ZMM

COMMUNITY SUPPORT

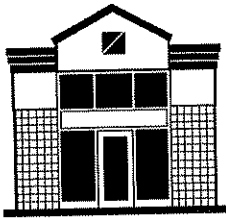
In addition to our design efforts, **ZMM** is supportive of institutions and organizations that contribute to the cultural and educational landscape in West Virginia.

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.

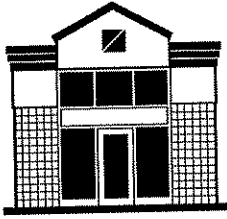
Additionally, ZMM is constantly working to improve the services we offer by addressing emerging and evolving trends that impact the design and construction market. ZMM has five LEED accredited Professionals on staff to address the needs of our clients who are interested in designing buildings that meet 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 (Page)
National Guard Bureau Area (NSP)		
Operations	98/13	
Sub-Total (NSP)	98/13	
Total (OSF)	22,914	2
Department of Energy Area (NSP)		
Training	4,183	
Operations	18,913	
Information Technology	11,114	
Facilities	1,000	
General Support	3,800	
Sub-Total (NSP)	41,209	
Total (OSF)	48,993	3
AFRC Area (NSP)		
Construction	17,180	
Administration	1,000	
Mail Services	200	
Locker Rooms	200	
Special Projects	17,180	
Sub-Total (NSP)	18,900	
Total (OSF)	18,900	4
Joint Interagency Training Center-East Area (NSP)		
Administration	11,723	
Operations	21,248	
OSF	15	
Sub-Total (NSP)	33,273	
Total (OSF)	48,929	5
Billings Area (NSP)		
Training	29,700	
Sub-Total (NSP)	29,700	
Total (OSF)	73,443	6
Total Building Area Area (OSF)		
National Guard Bureau	22,914	
Department of Energy	65,233	
Armed Forces Research Center	18,600	
Joint Interagency Training Center	48,929	
Billings	73,443	
Total (OSF)	234,079	

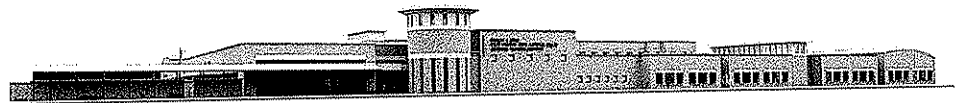


Professional Services

DESIGN

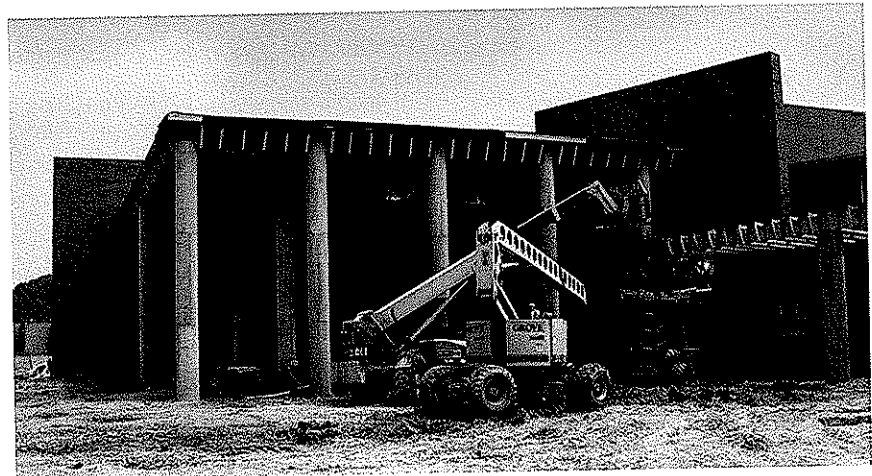
Architectural Design
Sustainable Design
Interior Design
Landscape Architecture
Structural Engineering
Mechanical Engineering

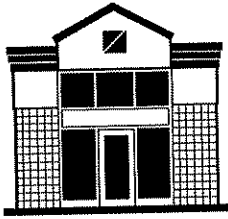
Electrical Engineering
Civil Engineering
Data System Design
Lighting Design
Energy Consumption Analysis



POST DESIGN

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

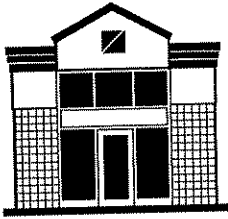




Quality Assurance

At ZMM, we strive to be the best. Our Quality Assurance Program is one step in the process of exceeding our clients' expectations. 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.
- 2. Identifying Project Requirements**
Project team members are fully integrated in each phase of the design process, ensuring a quality project from the beginning, and so are better able to take advantage of early sustainable design decision-making.
- 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
- 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.
- 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 happier employees and even more successful projects.

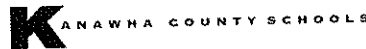
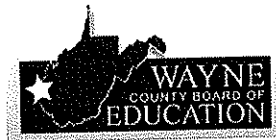


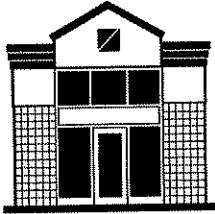
Ongoing Clients

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



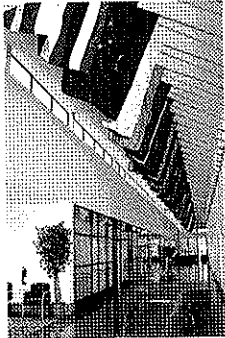
Lincoln County Schools





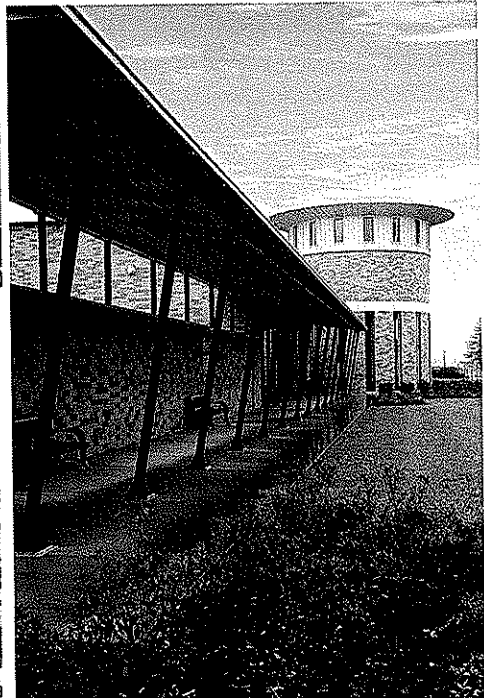
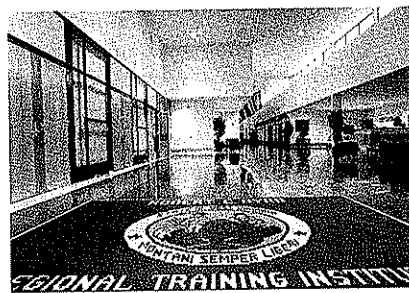
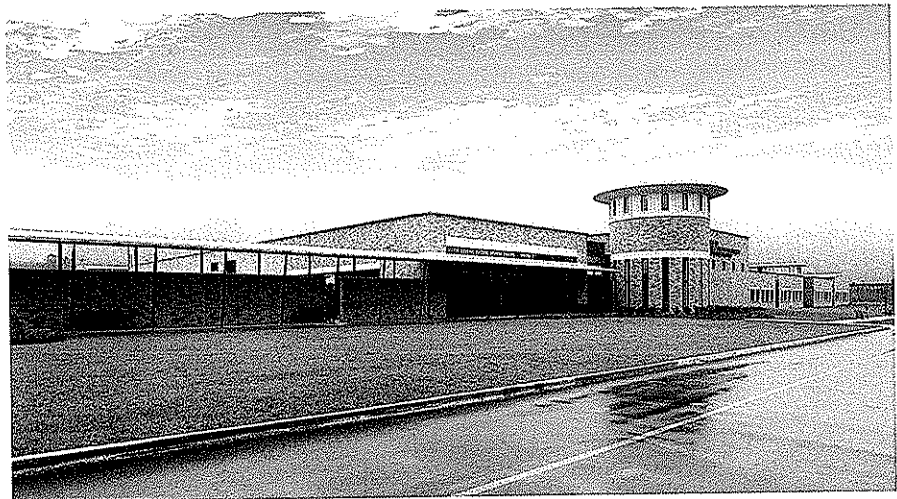
Military Projects

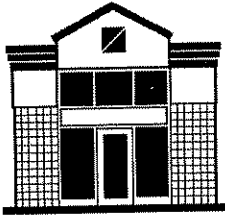
Robert C. Byrd Regional Training Institute Camp Dawson, WV



The Regional Training Institute at Camp Dawson is a new 148,066 square foot facility that will provide a setting for a variety of training classes, meetings, and conferences serving both military and civilian populations from the region and areas throughout the country. The facility includes classrooms, library, sleeping rooms, dining room, auditorium, swimming pool, Post Exchange and snack bar.

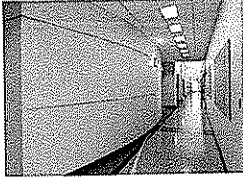
Size: 148,066 SF
Completion Date: 2002



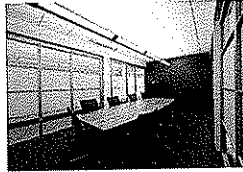


Higher Education Facilities

Erma Byrd Center Public Higher Education Center Beckley, WV



This project provides a central location for classroom and administrative space to be shared by six different colleges and universities. It is the first building of a planned campus environment to be comprised of other classroom buildings and research facilities.



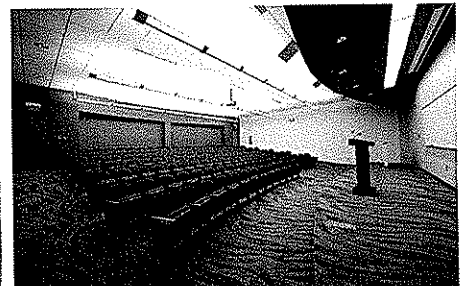
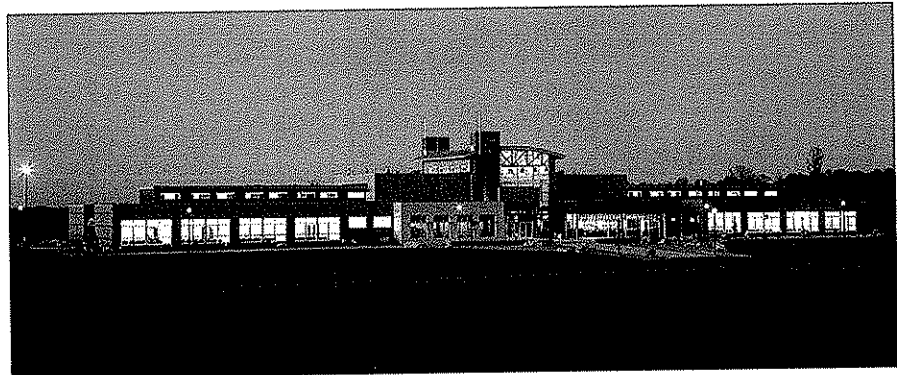
The project consists of 29,700 SF on the main level and 3,300 SF of mechanical mezzanine. Being a teaching facility, the building itself is designed to be a teaching tool. Daylighting is incorporated throughout the building and the mechanical equipment is designed to be viewed and monitored by students in a learning environment. Using data collected by various sensors, the control system can graphically display how all systems react to changes in environmental conditions.

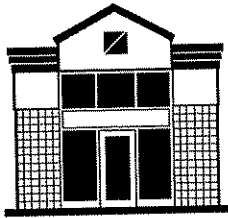


This project was funded by appropriations from Senator Robert C. Byrd, the Higher Education Policy Commission and a grant from the Appalachian Regional Commission.



Size: 33,000 SF
Cost: \$7.5M
Completed: August, 2007

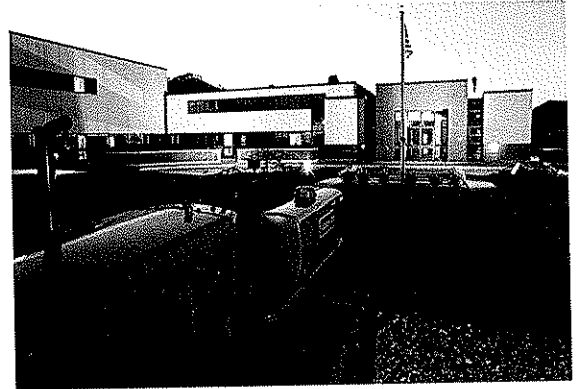




Walker Machinery Projects

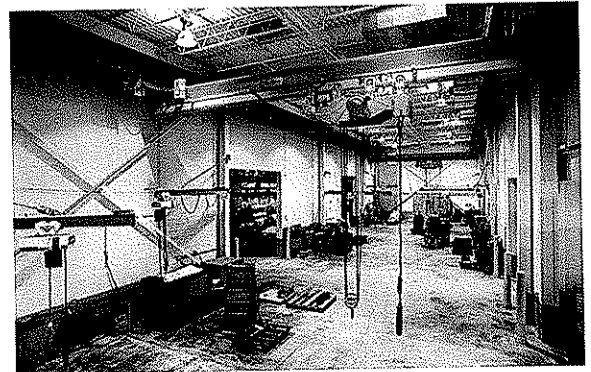
Cecil I. Walker Machinery Company - Belle, WV Utility Building - 38,000SF

A new facility for the repair and maintenance of earth moving and materials handling equipment, this building was designed with a steel structural frame, masonry walls, and a standing seam metal roof. Interior spaces include repair bays, welding areas, storage for parts and tools, and administrative offices. Heating and ventilating systems provide environmental control in the shop and office areas are air conditioned. 20-ton bridge cranes, also designed by ZMM, are used in the shop for equipment hoisting and material handling.



Cecil I. Walker Machinery Company - Belle, WV Diesel Engine Re-Build Shop - 14,000SF

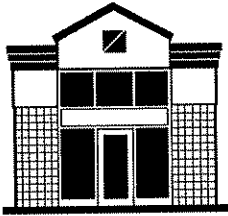
The existing repair shop was renovated to provide a staged/assembly line system to clean disassemble, inspect, repair, rebuild, and test diesel engines. New air conditioning, heating and ventilation systems were included and the roof structure was reinforced for the installation of new jib and overhead cranes, added to provide for efficient handling of materials and equipment.



Cecil I. Walker Machinery Company - Belle, WV Training Center - 8,000SF

The existing warehouse building was renovated to include five classrooms and support space for employee training classes. The new interior finishes, partitioning, mechanical, electrical, and technology support equipment were designed to provide a functional teaching environment.





Military Projects

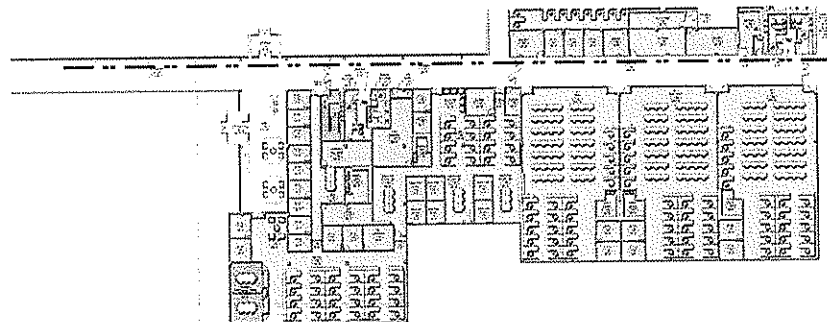
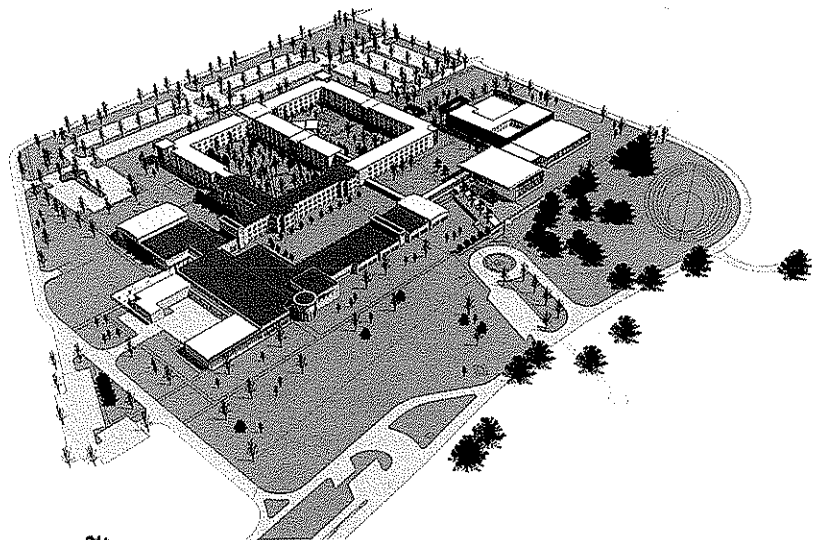
Joint Interagency Training and Education Center West Virginia Army National Guard - Camp Dawson Kingwood, WV

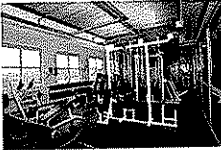
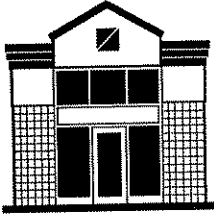
The Joint Interagency Training and Education Center is an expansion adjacent to the existing Regional Training Institute (RTI) on Camp Dawson, near Kingwood, West Virginia.

The agencies involved in the development of the JITEC include West Virginia Army National Guard (WVARNG) and the National Guard Bureau (NGB).

This 285,000 SF project at Camp Dawson is registered under LEED-NC v2.2. Program elements incorporate an operations training and simulation center for the National Guard Bureau, training offices, classroom spaces, and a billeting (hotel) component.

Size: 285,000SF
Cost: \$75M
Completion Date: Est. 2012





Military Projects

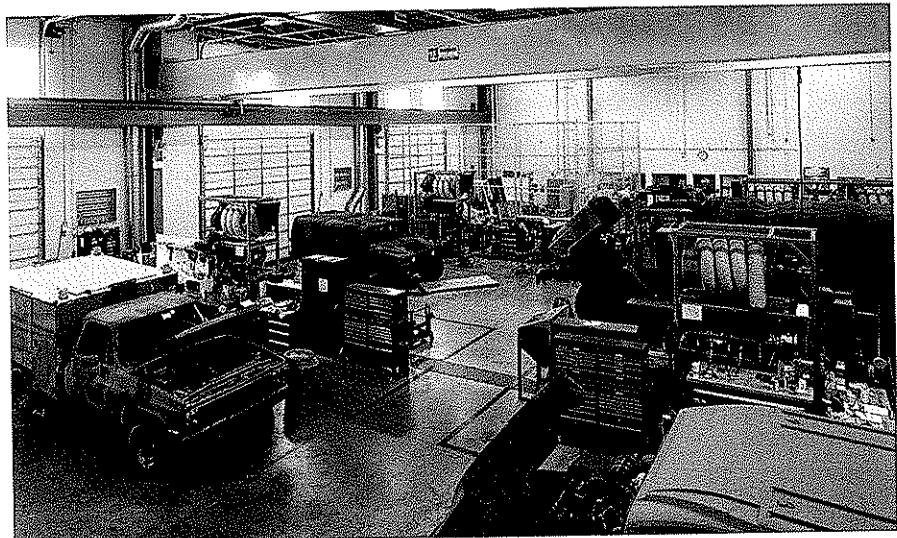
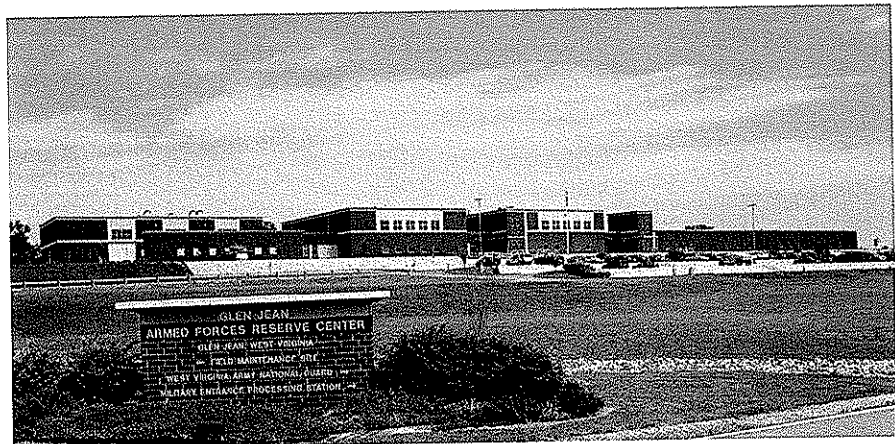
Glen Jean Armed Forces Center

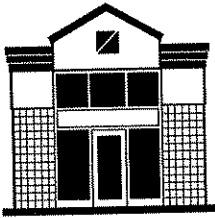
Glen Jean, WV

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.

Size: 109,000 SF
Completion Date: 2003





Military Projects

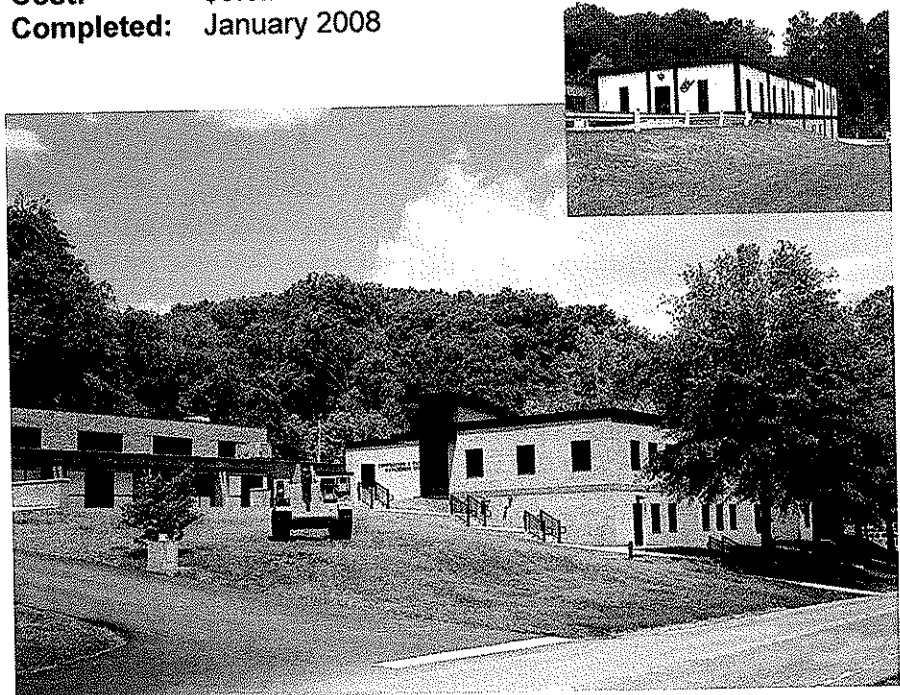
Construction & Facilities Management Office West Virginia Army National Guard Charleston, WV

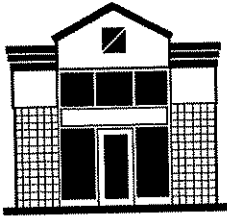
The Construction and Facilities Management Office (CFMO) Expansion project will bring all of the operations of the CFMO together under one roof. The branches that will occupy this facility include: Director of Engineering, Environmental, Planning and Programming, Facility Operations & Maintenance, Business 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.

Size: 19,935 SF
Cost: \$3.6M
Completed: January 2008

Before



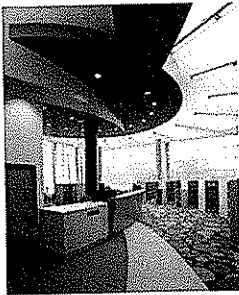


High School Projects

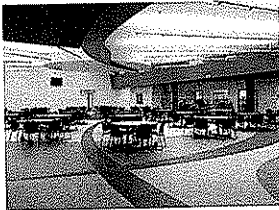
Lincoln County Comprehensive High School Lincoln County Schools Hamlin, WV



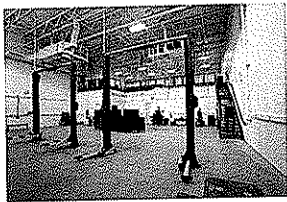
This consolidated senior high school for 850 students in grades 9 through 12, includes two gymnasiums with seating for 840 in the main gym, full food service facilities, a 300 seat auditorium, a library featuring state of the art technology, and all required curricular classroom spaces.



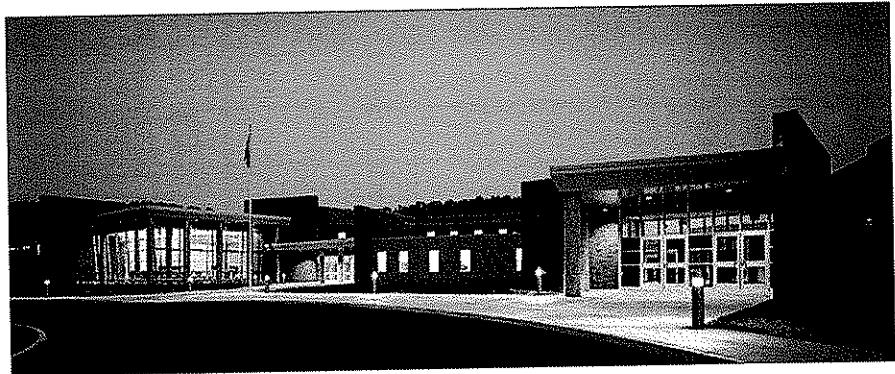
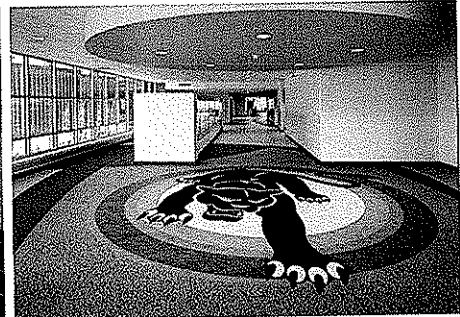
Vocational space is included in the facility making it one of the new breed of comprehensive high schools. The building is air conditioned with a four pipe, hot water/chilled water, air handling system meeting all indoor air quality requirements. It also includes LAN cabling system, integrated classroom 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.



Size: 216,500 SF
Cost: \$32M
Completed: August, 2006





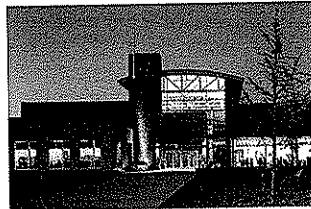
Award Winning Design



2009

Construction & Facilities Management Office

Charleston, West Virginia
AIA Merit AWARD West Virginia Chapter
Achievement in Architecture



2008

Erma Byrd Center

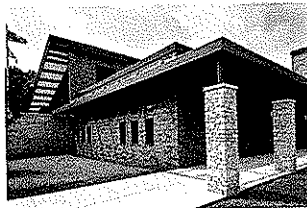
Beckley, West Virginia
AIA HONOR AWARD West Virginia Chapter
Excellence in Architecture
AMERICAN SCHOOL & UNIVERSITY
Outstanding Building Design



2007

Lincoln County High School

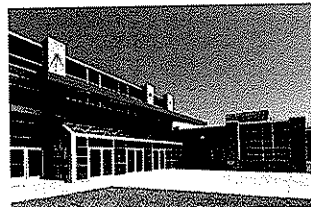
Hamlin, West Virginia
AIA HONOR AWARD West Virginia Chapter
Excellence in Architecture
EDUCATION DESIGN SHOWCASE
Project of Distinction award
AMERICAN SCHOOL & UNIVERSITY
Outstanding Building Design



2006

Gene Spadaro Juvenile Center

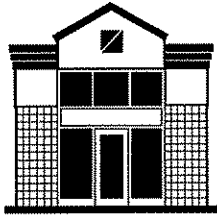
Mount Hope, West Virginia
AIA MERIT AWARD West Virginia Chapter
Achievement in Architecture



2004

St. Albans High School

St. Albans, West Virginia
IMPACT ON LEARNING AWARD
Effective Transformation
EDUCATION DESIGN SHOWCASE
Outstanding Building Design
AMERICAN SCHOOL & UNIVERSITY
Outstanding Building Design



Additional Award Winning Design

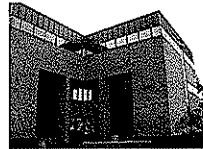
WEST VIRGINIA SOCIETY OF ARCHITECTS Design Honor Awards



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

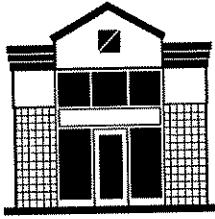
Restoration and Renovation Projects
Cottage Renovations to Federal Prison Camp
Alderson, West Virginia

STONEWALL JACKSON LAKE

Merit Award

Design and Environmental Program
Recreation Area Basic Park
Weston, West Virginia





David E. Ferguson, AIA, REFP

Position

Principal, Project Manager

Education

B.S., Industrial Technology/Architectural Design; *West Virginia State University, Institute, West Virginia; 1979*

Employment History

2002-Present, Principal, ZMM, Inc.
2001-Present, Board of Directors, ZMM, Inc.
2001-Present, Project Architect, Project Manager, ZMM, Inc.
1996-2001, Project Architect, ZMM, Inc.
1984-1996, Designer, ZMM, Inc.
1983-1984, Designer, Cilco, Inc.
1980-1983, Designer, Union Carbide Corp.
1979-1980, Drafting/Design, Parkline, Inc.

Professional Credentials

Registered Architect (WV, OH)
Professional Member, American Institute of Architects
Professional Member, West Virginia Chapter of the AIA
Director, West Virginia Chapter of the AIA
Professional Member, US Green Building Council
Member, Council of Educational Facility Planners International
Recognized Educational Facility Professional (REFP) by CEFPI

Community/Professional Service

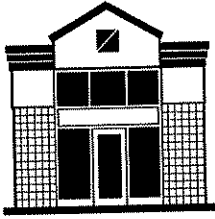
High School Student Mentor/Job Shadowing Program
West Virginia AIA IDP Program Mentor/Advisor
West Virginia State Department of Education - Policy 6200
Revision Committee
West Virginia School Building Authority Performance and Design
Standards Committee

Professional Experience

Mr. Ferguson's responsibilities at ZMM include all aspects of project management and scheduling, project programming, educational facility planning, project budgeting, code compliance reviews, architectural design and presentation, quality control. He is also responsible for client and public meetings from small to multi-million dollar projects. As a Principal of the firm he has corporate administrative duties and serves on the Board of Directors for ZMM.

Throughout his tenure at ZMM, Mr. Ferguson's emphasis has been on Educational Design and has had extensive design experience with Industrial, Healthcare, Retail, Public, Governmental, and Recreational Facilities. He is a *Recognized Educational Facility Professional International* and has been involved in the planning and construction on over 80 educational facilities.





Adam R. Krason, AIA, NCARB, LEED AP

Position

Project Manager

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, ZMM, Inc.

2003 - 2008, Project Architect, ZMM, Inc.

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

State of West Virginia Division of Juvenile Services

Joint Interagency Training and Educational Center (JITEC)

West Virginia Army National Guard - Logan Readiness Center

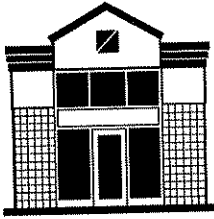
West Virginia Army National Guard - CFMO Expansion Project

West Virginia Army National Guard - Morgantown Readiness Center

Judge Donald F. Black Courthouse Annex

State Office Building 5, 6, & 7 Analysis





Robert C. Doeffinger, P.E.

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, Inc.
1977-1982, Director of Engineering; ZMM, Inc.
1976-1977, Mechanical and Architectural Engineer; ZMM, Inc.

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 Calculations

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

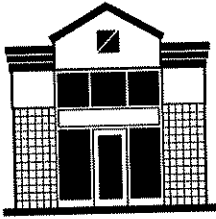
Professional Experience

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.





Brian A. Estep, AIA

Position

Project Architect

Education

Bachelor of Architecture; University of Tennessee, Knoxville, Tennessee; 1992

Employment History

2003-Present, Project Architect, ZMM, Inc.

2001-2003, Director of Architecture, West Virginia Area Architectural Firm

1997-2001, Project Architect/Associate, Florida Area Architectural Firm

1992-1997, Intern/Project Architect, ZMM, Inc.

Professional Credentials

Registered Architect (West Virginia)

Professional Member, American Institute of Architects

Professional Experience

Mr. Estep began his career in Architecture with ZMM, Inc. in 1992. In 1997, he moved to St. Petersburg, FL and worked as a Project Architect at a large Architectural Design Firm where he gained additional experience in Commercial Design. He returned to ZMM, Inc. in 2003.

Mr. Estep is responsible for the overall work process relating to design, documentation and bidding. In addition to his project management responsibilities, Mr. Estep also manages ZMM's Design Review Program.

He is also responsible for generating construction details as necessary to ensure compliance with design intent, performing building code/ordinance analysis, coordinating structural, mechanical and electrical systems, and establishing project goals consistent with the contract and project schedules. He presides at project kick-off meetings with design teams to communicate construction budgets, goal, and schedules and conducts regular team meetings to update information, changes, budgets, and facilitates communications among team members.

Project Experience

Erma Byrd Center

Jaeger - Big Creek High School

Milton Middle School

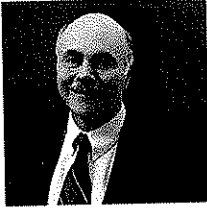
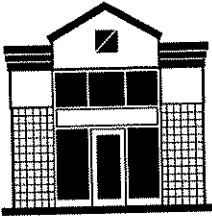
Bradshaw Elementary

Big Otter Elementary School

Highland Hospital

Kanawha County Public Library





Steven L. Cook, P.E.

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, Inc., 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

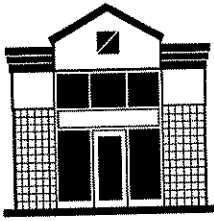
Mr. Cook started his career in 1972 as a designer for an engineering firm in Charleston, WV. He is a Professional Engineer registered in West Virginia. He has designed and engineered many projects throughout the state of West Virginia.

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 Regional Jails
State of West Virginia Juvenile Detention Centers
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



Mary Jo Cleland, P.E.

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, Inc.

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

State of WV Office Buildings 5, 6 & 7

Goodwill Industries Addition

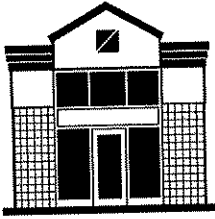
Parkersburg Catholic Athletic Annex

Cedar Lakes Conference Center Roadwork

Highland Medical Facility

Kanawha Valley Senior Services

West Virginia Housing Development Fund



Stephen E. Hedrick II, PE

Position

Structural Engineer

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, Inc.

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.

Researched and developed design criteria for structural insulated panels.

Prepared design calculations for earthquake and wind design of FRP tanks.

Supervised work of design engineers in preparation of construction documents.

Project Experience

New River Elementary - Supplemental Support

Hacker Valley Elementary - Supplemental Support

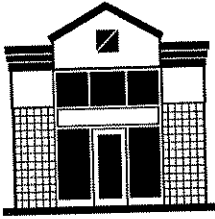
Barboursville Middle School - Supplemental Support

Southside Elementary/Huntington Middle School

Glen Jean Armed Forces Center - Joist Reinforcement

West Virginia Cultural Center

Highland Hospital



Jill M. Watkins, IIDA, LEED AP

Position

Interior Designer, 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, Inc.

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.

Project Experience

Highland Hospital

Midwest Research

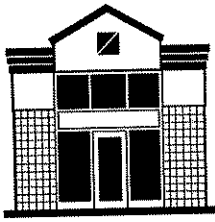
Procter & Gamble - Gillette Headquarters

Cleveland State University - Recreation Center

Beachwood Middle School

West Virginia Housing Development Fund

State Office Buildings 5, 6, & 7



Glenn R. Savage, CSI-CDT, CSI-CCS

Position

Construction Administrator, ZMM, Inc.

Education

B.S., Environmental Science; *University of Charleston, Charleston, West Virginia; 1997*

A.S., Mathematics; *West Virginia State University, Institute, West Virginia; 1992*

Employment History

1998-present, Construction Administrator; ZMM, Inc.

997-1998, Environmental Project Manager; West Virginia Area Engineering Firm

1992-1997, Environmental and Construction Quality Control Manager; West Virginia Area Construction Company

1981-1992, Field and Laboratory Testing Manager; West Virginia Area Environmental Engineering Firm

Professional Credentials

CSI, Certified Construction Specifier (Construction Specification Institute)

CDT, Certified Construction Document Technologist

Professional Experience

Mr. Savage has performed construction administration services on a variety of building types including: Educational Facilities; Correctional Facilities; and Office/Light Industrial Facilities.

Mr. Savage's past experience in the construction testing and environmental fields is a benefit to clients during the site preparation and foundation installation.

Project Experience

Western Regional Jail

Alderson Federal Prison Camp

Jean Dean Safety/Law Enforcement Building

Highland Hospital

Mountaineer Middle School

Nicholas County High School

East Greenbrier High School

Gauley Bridge Elementary

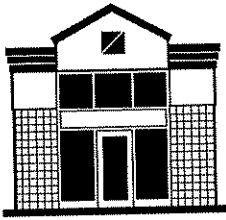
Summersville Hospital Medical Building

Cacapon State Park

Blackwater Falls State Park

Ronceverte Elementary School

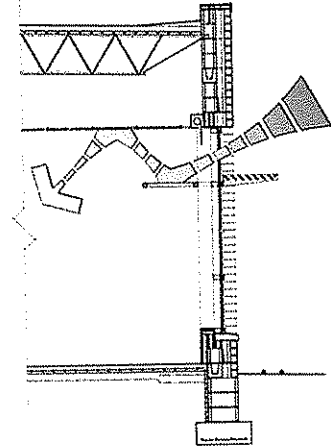
Mount View High School



Sustainable Design Reduced Energy Consumption

Sustainable, or green, design might be a relatively new concept in West Virginia, but we take many opportunities to design better, healthier buildings for our clients. At **ZMM**, we just see green design as good design.

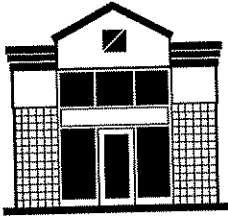
No-cost methods of reducing energy consumption include properly siting the building to take advantage of sun angles and site features; designing the building with a narrow footprint to allow more interior spaces access to natural light, and therefore, less manufactured light; and designing the building through an integrated design process that considers the many disparate parts of a building project and examines the interaction between design, construction and operations to optimize energy performance.



These methods have been successfully implemented on **ZMM's** past and current projects, including Lincoln County High School, the West Virginia Housing Development Fund, and the Erma Byrd Center.

While green building does not necessarily cost more, there are some technologies that might have a higher upfront cost, but very low operating cost. One important step a client can take in this regard is to have the lighting systems designed with daylight sensors. Lighting power makes up about 10% of all energy use of a new building, and replacing that with a smart, passive daylighting system can reduce operating costs, and increase lamp life.

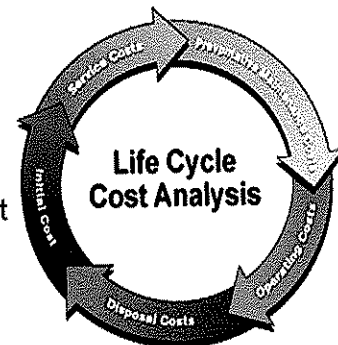
However, combining efficient lighting and daylighting systems with efficient HVAC systems provides superior energy savings. We examine upfront costs vs. operating expenses, plus the various financing options available. The federal government, the State of West Virginia, and various nonprofit agencies offer grants, low-interest loans and tax incentives for energy efficiency, water conservation, etc.



Sustainable Design Reduced Energy Consumption

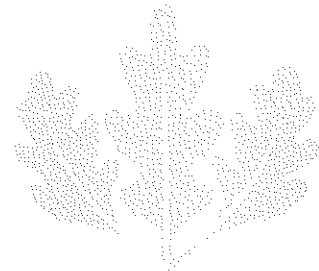
Other means **ZMM** employs to lower operating costs include the use of native landscaping and the specification of durable exterior and interior materials. Using plants that are indigenous to an area reduces water consumption. Proper landscaping adds to shade around the building, thus reducing energy consumption, and provides shade for pedestrians surrounding the building.

Specifying high quality materials both inside and outside includes an analysis of not only their appropriateness, but also their composition, location of manufacture, and life cycle cost. A life cycle cost analysis consists of a comparison of upfront cost with the cost of maintenance and useful length of life. **ZMM** designers use materials containing recycled content wherever it makes sense, and encourage the use of locally manufactured materials, thereby supporting the regional economy. These tried and true methods continually lead to satisfied clients and long-lasting buildings and spaces.



ZMM encourages many clients to go through the LEED building certification process. LEED is an acronym for Leadership in Energy and Environmental Design, a green building rating system developed by the U.S. Green Building Council. LEED certification provides independent, third party verification that a building project meets the highest green building performance measures.

It is the best measure of sustainability, and the surest way for owners to assert that their buildings are green. Current clients going through the LEED certification process include the West Virginia Army National Guard, the West Virginia Office of Administration and the West Virginia Housing Development Fund. If LEED certification becomes a goal of the West Virginia Office of Miners' Health, Safety and Training, **ZMM** has the experience to lead this endeavor.





Project Approach and Delivery

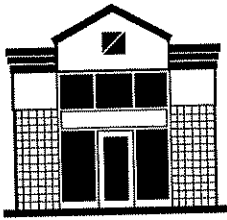
As a fully integrated firm that offers complete Planning, Architectural, Engineering, Interior Design, Sustainable Design, and Construction Administrative services, **ZMM** practices a collaborative approach on each project that we design.

Project Management

Dave Ferguson, AIA will be the Principal responsible for this project. Mr. Ferguson brings more than 25 years of experience at **ZMM**. Mr. Ferguson's role will include management of the Project Team to ensure that the WV Office of Miners' Health, Safety, and Training's goals, budget, and schedule are maintained. In addition to his management role, Mr. Ferguson will also be responsible for implementing **ZMM's** Quality Assurance and Quality Control program for your project.

The daily work effort will be managed by Mr. Adam Krason, AIA, NCARB, LEED-AP. Mr. Krason will be responsible for the architectural design, and will coordinate the work of other disciplines, including: Interior Design; Civil Engineering; Structural Engineering; Mechanical Engineering (including Plumbing); Electrical Engineering (Power, Lighting, Data); and **ZMM's** Construction Administration Department.

Mr. Krason has recently participated on the design of the Joint Interagency Training and Education Center (JITEC) at Camp Dawson, near Kingwood West Virginia. The JITEC program includes a similar multi-discipline training function as the proposed facility.



Project Approach and Delivery

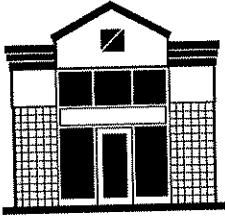
Pre-Design

ZMM Team: Dave Ferguson – Principal,
Adam Krason – Project Manager

During the pre-design phase, Mr. Ferguson and Mr. Krason will meet with the WV Office of Miners' Health, Safety, and Training to establish project objectives, including schedule and budget verification. The project team (including the Owner) will then establish critical milestones and decision makers. Mr. Krason will also be responsible for developing a list of required regulatory agency approvals, establishing early contact to attain consensus. Establishing clear communication and goals will be critical to the overall success of the project.

Deliverables:

- Project Schedule
- Project Budget
- Project Objectives
- Required Regulatory Agency Approvals
- Critical Milestones
- Determine Decision Makers



Project Approach and Delivery

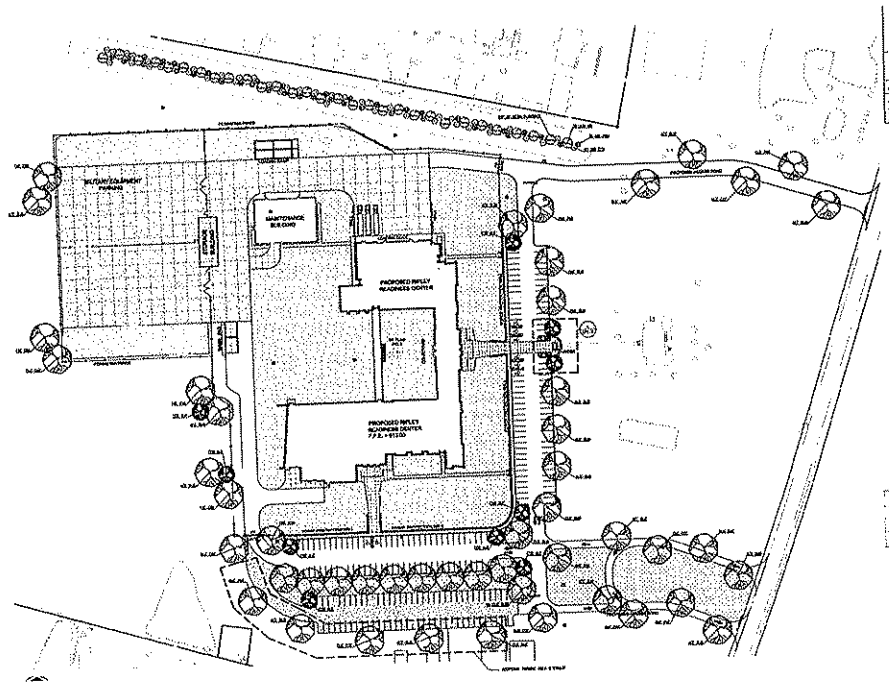
Site Analysis

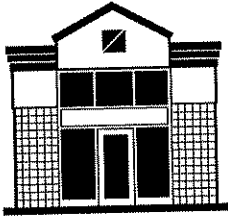
ZMM Team: Adam Krason - Project Manager, Mary Jo Cleland - Civil Engineer

During the site analysis phase, Mr. Krason and Mrs. Cleland will examine the site, including topography, utilities, and zoning regulations. Mr. Krason will coordinate a site and geotechnical survey for the Owner if they have not been completed. The result of this investigation will be a strategy for site development, building placement and massing, as well as parking and site circulation.

Deliverables:

- Site Survey Proposal/Report
- Geotechnical Proposal/Report
- Preliminary Site Concepts
- Preliminary Building Massing Diagrams





Project Approach and Delivery

Programming/Space Planning/Sustainability (“Green”)

ZMM Team: Adam Krason – Project Manager, Jill Watkins – Interior Design, Sustainable Design
Mr. Krason and Ms. Watkins will lead the programming and space planning effort. The intent of this effort will be to develop current and future space needs. Important adjacencies of the various building functions, as well as appropriate finishes will also be developed during this phase.

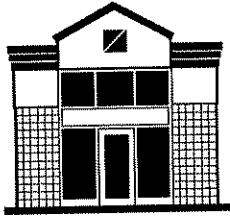
This effort will be accomplished through a series of meetings with the staff assigned by the WV Office of Miners’ Health, Safety, and Training. Involving Ms. Watkins (Interior Designer) at this phase in the project ensures that the interior design and space layout is integrated with the overall building design.

Ms. Watkins will also act as the Sustainability Coordinator for the project, and will assist the Owner with establishing the appropriate level of sustainability, and reduced energy consumption, for this project by conducting a Sustainability Planning Charrette with the Owner and members of the design team.

Deliverables:

- Kickoff Meeting(s) Minutes
- Departmental / End User Meetings Minutes
- Departmental / End User Questionnaires
- Furniture / Equipment Inventory
- Programming Document:
 - List of Space Requirements
 - Area (SF) Standards
 - Adjacency Matrix
 - Sustainability Plan





Project Approach and Delivery

Conceptual/Schematic Design

ZMM Team: Adam Krason – Project Manager, Brian Estep – Architectural Design, Jill Watkins – Interior Design, Mary Jo Cleland – Civil Engineer, Steve Hedricks – Structural Engineering, Bob Doeffinger – Mechanical Engineering, Scot Casdorph – Electrical Engineering

During the conceptual/schematic design phase, the project team will begin to develop site plans, floor plans, space plans, elevations, and massing that supports the facility program, budget, and site constraints. Mr. Estep will lead the architectural design effort. This preliminary information will be reviewed with the State Fire Marshall to verify compliance with Life Safety Codes. To help inform the development of these preliminary documents, the engineering staff will review potential engineering systems (structural, mechanical, electrical) that will support the design.

The interior design team will begin the production of “fit plans” during the conceptual phase, and make preliminary finish selections. Various furniture systems will also be reviewed to determine the best system for the State.

At the end of this phase, **ZMM** will meet with the WV Office of Miners’ Health, Safety, and Training to present the design, as well as the projected construction cost. Any comments generated during this presentation will be incorporated into the conceptual design, and the approval of the Owner will be sought prior to commencing the design development phase.

Deliverables:

- Preliminary Site Plan
- Preliminary Floor Plan
- Preliminary Elevations
- Massing Model (Computer Animation)
- Conceptual “Fit Plans”
- Preliminary Finish Selection
- Preliminary Furniture Selection
- Projected Cost: Site Development
 - Building
 - Interiors
 - FFE (Furniture, Fixture, and Equipment)



Project Approach and Delivery

Design Development/Construction Documents ZMM Team: ZMM Architectural and Engineering Staff

These critical phases include developing the additional level of complexity required to produce a detailed set of construction documents for the facility. Mr. Krason will coordinate the integrated design effort of the project team. Detailed site plans will be developed that illustrate the site layout, coordinate utilities, and manage the site storm water. Architectural sections, details, and specifications will be developed that will convey the design to the contractors that will construct the facility.

Final decisions regarding the interior design including material and furniture selections will be developed in conjunction with WV Office of Miners' Health, Safety, and Training staff. Engineering systems, including HVAC, power, lighting, and data will be developed to support and enhance the architectural design and space planning.

At the end of both phases, the project will again be reviewed with the Owner prior to proceeding to the next phase. Once the construction document phase is complete, plans will be submitted to all regulatory authorities to complete the permitting process.

Deliverables:

Architectural and Engineering Plans and Specifications including:

Site Civil: Utility Plans, grading, Site Lighting, Signage

Architectural: Plans, Elevations, Sections, Details

Interiors: Space Plans, Furniture Plans, Finish Plans, Signage, Window Treatment

Structural: Foundations, Framing, Details

Mechanical: HVAC, Plumbing

Electrical: Power, Data, Lighting

Coordinated Bidding Documents

Architectural Rendering(s) and Finish Boards

Artwork Research and Selections

Projected Total Project Cost

Required Permits (Building, Zoning, Fire – Life Safety)



Project Approach and Delivery

Bidding

ZMM Team: Adam Krason – Project Manager, Glenn Savage – Construction Administrator, ZMM Staff

ZMM will coordinate the bidding and contractor selection process for the WV Office of Miners' Health, Safety, and Training. All bidding and contractor selection requirements that are included with the bidding documents will be coordinated with the requirements of State Purchasing.

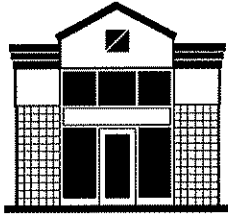
This work will include the production of an advertisement for bids, a mandatory pre-bid meeting for interested contractors, the issuance of any required clarification (addenda) throughout the bid process, and the bid opening. Mr. Savage, one of **ZMM's** construction administrators will begin assisting Mr. Krason during bidding, and will stay involved until project completion.

Deliverables:

Advertisement for Bid

Addenda

Contractor Recommendation



Project Approach and Delivery

Construction

ZMM Team: Adam Krason – Project Manager, Glenn Savage – Construction Administrator, ZMM Staff

Mr. Savage will coordinate **ZMM's** effort during the construction phase. Mr. Savage will be responsible for ensuring timely reviews of contractor submittals, attend all construction progress meetings, verify that the construction complies with the plans and specifications, and process applications for payment. Mr. Krason will also continue to be involved throughout the construction phase.



As construction nears completion, **ZMM** will prepare conduct an inspection and prepare a "punch-list" that will advise the contractor of all outstanding work that remains to be completed, or requires repair. **ZMM** will also coordinate the furniture installation, including coordination with the vendor.

Deliverables:

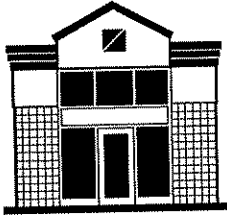
- Review and Process Shop Drawings
- Review and Process Payment Applications
- Attend Progress Meetings
- Issue Timely Responses to RFI's (Contractor Questions)
- Prepare "Punch-list"
- Coordinate FFE Installation

Post-Construction

ZMM Team: Dave Ferguson – Principal, Adam Krason – Project Manager, ZMM Staff

ZMM's work does not end when the construction is complete. Our staff will remain available to the WV Office of Miners' Health, Safety, and Training as needed to ensure that the facility operates as intended. **ZMM** is committed to the long-term success of the new training facility.





Construction Phase Services

ZMM's effort during the construction phase is geared towards improving the construction process for the WV Office of Miners' Health, Safety, and Training. **ZMM** has a dedicated, in-house, construction administrative staff that will work with the design team and the owner to help ensure a seamless construction process, and a completed project that meets the quality standards identified in the construction documents.

The construction administration staff is led by Mr. Rodney Watkins, AAIA, one of **ZMM's** Principals. Mr. Watkins brings more than thirty years of planning and construction experience on a wide range of Education, Industrial, and Commercial/Office Space projects.

Mr. Watkins is assisted by Mr. Glen Savage and Mr. David Unrue, both Construction Specification Institute Certified Construction Document Technicians (CSI-CDT).

Mr. Savage and Mr. Unrue are responsible for coordinating the construction phase services of the design team, and conduct regular observations of the project process. **ZMM's** construction administration staff is supported by Ms. Theresa Dorsey.



R. Watkins



G. Savage

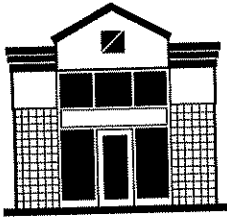


D. Unrue



T. Dorsey

Mr. Savage will coordinate **ZMM's** effort during the construction phase of the WV Office of Miners' Health, Safety, and Training facility. Mr. Savage will be responsible for timely reviews of contractor submittals, attend all construction progress meetings, verify that all construction complies with the plans and specifications, monitor and update the owner regarding construction progress relative to the approved schedule, and process applications for payment.



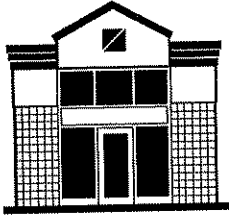
Construction Phase Services

As construction nears completions, **ZMM** will conduct an inspection and prepare a "punch-list" that will advise the contractor of all outstanding work that remains to be completed, or requires repair. **ZMM** will also coordinate the furniture installation, including coordination with the vendor.

ZMM's responsibilities during the construction phase will include:

- Review Bids and Recommend a Construction Team
- Conduct a Pre-Construction Meeting
- Coordinate Preliminary Contractor Submissions (Bonds, Insurance, Schedule, Schedule of Values, Emergency Contact Information, etc.)
- Review and Process Shop Drawings
- Review and Process Payment Applications
- Update the Owner on Progress Relative to the Project Schedule
- Process Proposal Requests, Supplemental Instruction, and Change Orders
- Maintain a Current Overall Project Budget
- Conduct Regular Observations of Construction
- Attend Construction Progress Meetings
- Issue Timely Responses to RFI's (Contractor Questions)
- Conduct a Final Inspection
- Prepare a "Punch-List"
- Coordinate Furniture, Fixture, and Equipment Installation

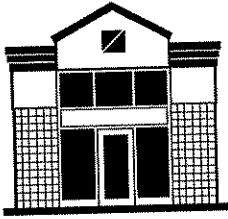
Managing the quantity and amount of change orders is a function of the quality and coordination of the construction documents. Our ability to offer fully integrated design services from our office in Charleston helps to ensure a high level of coordination, as our architectural, interior design, and engineering staff will collaborate daily on your project.



Construction Phase Services

Additionally, **ZMM's** quality assurance/quality control process helps us deliver projects with minimal change orders during the construction process.

ZMM's work does not end when the construction is complete. Our staff will remain available to the WV Office of Miners' Health, Safety, and Training as needed after the project is completed to verify that the facility operates as intended. As demonstrated throughout the history of our firm, **ZMM** is committed to the long-term success of the New WV Office of Miners' Health, Safety, and Training facility.

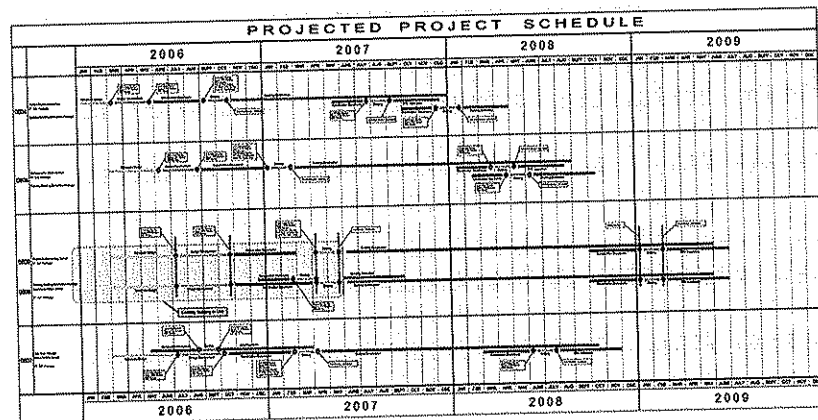


Project Schedule Control

Project Schedule Control

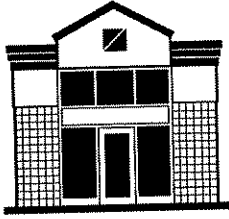
During a typical construction project, the owner and the architect establish the construction duration, and the contractor's bid should accommodate any measures required to complete the project in the established timeframe.

Liquidated damages are often used to ensure that the contractor meets the established schedule. **ZMM's** construction administration department will require the contractor to submit a project schedule prior to the first application for payment, and will then verify that the schedule is being maintained during progress meetings.



If the WV Office of Miners' Health, Safety, and Training desires an aggressive schedule for the completion of the renovation, there are several ways to achieve this goal. Since the physical construction is the longest and most labor intensive part of the process, it is also the one that offers the most opportunities to compress the schedule. Compressing the design schedule is also possible, and is a direct function of available staff for production.

ZMM will commit all of our staff required to meet the scheduling needs of the WV Office of Miners' Health, Safety, and Training. We are one of the largest A/E firms in the State of West Virginia and maintain a staff that can accommodate the tightest of schedules.



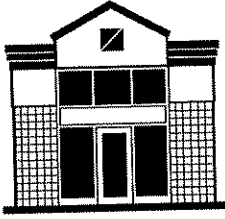
Project Schedule Control

Project Schedule Control

This schedule control has recently been demonstrated in Cabell County where **ZMM** completed the design services on five (5) middle school projects (with a total construction budget exceeding \$70M) in less than a year.

Please contact the Cabell County Board of Education to discuss our ability to maintain project schedules and provide construction administrative services.

Mr. Mike O'Dell, Assistant Superintendent of Operations
Cabell County Schools
304.528.5069



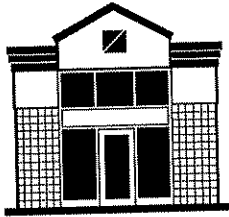
Project Budget Control

Project Budget Control

One stated objective of the WV Office of Miners' Health, Safety, and Training is the need to ensure that costs (both design and operational) meets the available project funding. The construction market in West Virginia is very unique, and varying parts of the State offer significantly different construction markets and challenges. Through more than fifty (50) years of experience designing facilities throughout the State of West Virginia **ZMM** has an understanding of these various markets, and has repeatedly demonstrated our ability to deliver design solutions that meet our client's budgets, while exceeding their expectations.

There are several ways that **ZMM** can help to manage the construction budget for the WV Office of Miners' Health, Safety, and Training. Some methods include:

- Establish a realistic project scope and budget. Clear and honest communication about the anticipated project costs from the planning stage between the owner and architect will help to avert future problems. **ZMM's** recent experience designing Training Facilities in West Virginia will help in establishing a realistic budget.
- Improve the quality of the construction documents. By providing thorough and well coordinated documentation, **ZMM** will help to reduce project costs by eliminating any uncertainty from the bidding process. Our QA/QC process, in addition to our ability to provide comprehensive design services under one roof, will allow us to provide this improved quality.
- Utilize construction methods and products that are familiar to local vendors and contractors. **ZMM** has a demonstrated record of producing award winning designs that meet our client's budgets. We are able to accomplish this by using construction materials and systems that are familiar in the local building industry – but composed in unique and innovative ways.



Project Budget Control

Project Budget Control

Complicated construction methods and expensive materials are not needed to create an award winning facility, creativity and innovation are the key components. Once the program and budget have been resolved, **ZMM** will employ the above efforts to provide a design that can be constructed within the project budget. A recent project that demonstrates our ability to control the project budget is the new Erma Byrd Center in Beaver, West Virginia, which was completed for the Higher Education Foundation.

After a previous (out of State) architectural firm was unable to resolve the project budget, **ZMM** was selected, and provided expedited design services that produced an award winning (and "on budget") project for the owner. Please contact the Higher Education Foundation to discuss our ability to provide high quality services that meet schedule and budget constraints.

Beckley Higher Education Center				
Forward Southern West Virginia				
Beckley, West Virginia				
Estimated Probable Construction Cost				
Prepared by ZMM, Inc., Architects & Engineers				
Revised 6/14/2006				
	Quantity	Unit	Cost \ Unit	Extension
Building Construction, Site Utilities				
a. New Building Construction	33,000	SF	1333	\$5,057,300
b. Contingency	5,057,300	%	2.0%	\$101,146
c. Architectural Fees	5,057,300	%	5.4%	\$273,094
			\$165	\$5,431,540
Funding Allocation				\$5,500,000
Construction Balance				\$68,460
Furnishings, Equipment, and Technology				
a. Furnishings, Equipment & Technology	33,000	SF	\$61.72	\$2,036,800
b. A/E Design Fee	880,000	%	5.40%	\$47,520
c. A/E Design Fee	1,156,800	%	10.00%	\$115,680
Total Probable F & E & T Cost				\$2,200,000
Funding Allocation				\$2,000,000
Furnishings, Equipment & Technology Balance				(\$200,000)

Father Thomas Acker, S.J., Executive Director
 The Higher Education Foundation
 304.929.2010



STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: 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 owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

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 materials, 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.

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, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, 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.

CONFIDENTIALITY:

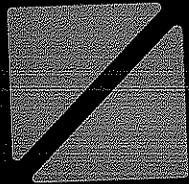
The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure 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>.

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.

Vendor's Name: ZMM, INC.
Authorized Signature: AR Date: 15 SEPT 2009

Purchasing Affidavit (Revised 01/01/09) ADAM R. KRASON, AIA
VICE PRESIDENT

Architectural Design
Interior Design
Building Programming & Planning
Construction Administration
Mechanical Engineering
Electrical Engineering
Structural Engineering
Civil Engineering



“Green” Building Design
Master Planning
Site Evaluation & Analysis
Feasibility Studies

Value Engineering
Construction Cost Estimating
Energy Consumption Analysis
Life Cycle Cost Analysis

AWA