



ARCHITECTS & ENGINEERS

RECEIVED

February 19, 2009

2009 FEB 19 A 11: 04

Ms. Krista Ferrell, Senior Buyer
State of West Virginia - Purchasing Division
2019 Washington Street, East
PO Box 50130
Charleston, WV 25305-0130

PURCHASING DIVISION
STATE OF WV

Subject: RFQ# GSD096435 State Office Building #9 Chiller Loop Changes

Dear Ms. Ferrell:

Thank you for giving **ZMM** the opportunity to submit our qualifications for the design of Building #9 Chiller Loop Improvements. **ZMM** is currently working on the design of a gift shop in the Cultural Center, and has recently designed improvements to Buildings 5, 6, & 7, and the Capitol Food Court. **ZMM** also recently completed a study of the HVAC system at the Governor's Mansion. We are confident that our recent experience designing improvements to the Capitol Complex, as well as our extensive experience designing Chiller Systems, makes **ZMM** the most qualified partner for the State of West Virginia on this project.

ZMM has assembled an experienced project team with a strong background in designing Chiller Loop Improvements to lead our effort. Project Principal Robert Doeffinger, PE will work closely with our Senior Mechanical Engineer, Steve Cook, PE, to develop a design solution that supports the overall project design requirements.

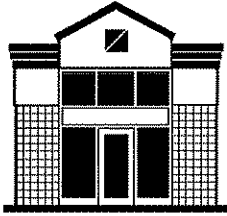
We look forward to meeting in the near future to discuss the Building #9 Chiller Loop Changes in greater detail, and (if selected) are committed to immediately commencing the analysis and design process. Thank you again for giving **ZMM** the opportunity to present our qualifications, and to address specific requirements of your project.

Respectfully submitted,

ZMM, Inc.

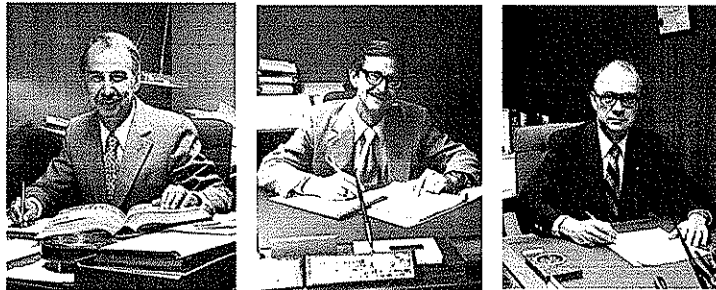
A handwritten signature in black ink, appearing to read 'A. R. Krason', written over a horizontal line.

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

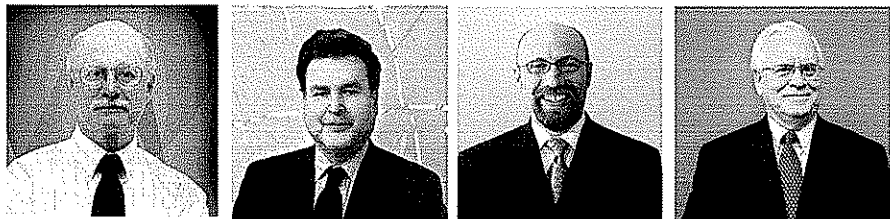


History & Philosophy of ZMM

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.

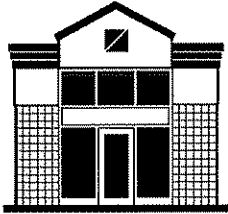


Mr. Zando, Mr. Martin and Mr. Milstead, reaching retirement age, transferred the ownership of the firm to Mr. Branner and Mr. Doeffinger in 1986 and they guided and expanded the firm to its present size of approximately 35 people. Recently, Dave Ferguson and Rod Watkins have joined in ownership of the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



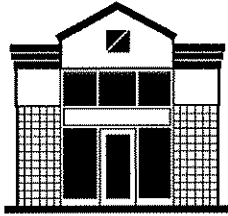


History & Philosophy of ZMM

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 the 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.



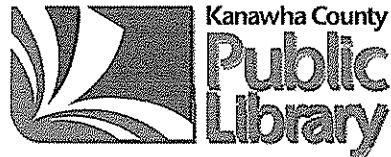


History & Philosophy of ZMM

COMMUNITY SUPPORT

In addition to our design efforts, **ZMM** has been 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 that 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) that 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. As shown below, 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. Recently, several of our professionals have attained LEED Accreditation so that ZMM is fully capable of addressing 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 education projects, most recently featured at the Lincoln County Comprehensive High School.

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)																								
<table border="1"> <thead> <tr> <th colspan="2">National Guard Bureau</th> <th>Area (NSF)</th> </tr> </thead> <tbody> <tr> <td>Operations</td> <td></td> <td>39,013</td> </tr> <tr> <td>Sub-Total (NSF)</td> <td></td> <td>39,013</td> </tr> <tr> <td>Total (GSP)</td> <td></td> <td>32,414</td> </tr> </tbody> </table>	National Guard Bureau		Area (NSF)	Operations		39,013	Sub-Total (NSF)		39,013	Total (GSP)		32,414	2												
National Guard Bureau		Area (NSF)																							
Operations		39,013																							
Sub-Total (NSF)		39,013																							
Total (GSP)		32,414																							
<table border="1"> <thead> <tr> <th colspan="2">Department of Energy</th> <th>Area (NSF)</th> </tr> </thead> <tbody> <tr> <td>Energy</td> <td></td> <td>4,180</td> </tr> <tr> <td>Operations</td> <td></td> <td>16,811</td> </tr> <tr> <td>Production/Technology</td> <td></td> <td>18,118</td> </tr> <tr> <td>Analysis</td> <td></td> <td>3,892</td> </tr> <tr> <td>General Support</td> <td></td> <td>4,256</td> </tr> <tr> <td>Sub-Total (NSF)</td> <td></td> <td>47,257</td> </tr> <tr> <td>Total (GSP)</td> <td></td> <td>45,793</td> </tr> </tbody> </table>	Department of Energy		Area (NSF)	Energy		4,180	Operations		16,811	Production/Technology		18,118	Analysis		3,892	General Support		4,256	Sub-Total (NSF)		47,257	Total (GSP)		45,793	3, 4
Department of Energy		Area (NSF)																							
Energy		4,180																							
Operations		16,811																							
Production/Technology		18,118																							
Analysis		3,892																							
General Support		4,256																							
Sub-Total (NSF)		47,257																							
Total (GSP)		45,793																							
<table border="1"> <thead> <tr> <th colspan="2">AFRC</th> <th>Area (NSF)</th> </tr> </thead> <tbody> <tr> <td>Construction</td> <td></td> <td>17,139</td> </tr> <tr> <td>Administration</td> <td></td> <td>4</td> </tr> <tr> <td>Site Support</td> <td></td> <td>0</td> </tr> <tr> <td>Construction</td> <td></td> <td>0</td> </tr> <tr> <td>General Support</td> <td></td> <td>17,143</td> </tr> <tr> <td>Sub-Total (NSF)</td> <td></td> <td>34,286</td> </tr> <tr> <td>Total (GSP)</td> <td></td> <td>14,809</td> </tr> </tbody> </table>	AFRC		Area (NSF)	Construction		17,139	Administration		4	Site Support		0	Construction		0	General Support		17,143	Sub-Total (NSF)		34,286	Total (GSP)		14,809	4
AFRC		Area (NSF)																							
Construction		17,139																							
Administration		4																							
Site Support		0																							
Construction		0																							
General Support		17,143																							
Sub-Total (NSF)		34,286																							
Total (GSP)		14,809																							
<table border="1"> <thead> <tr> <th colspan="2">Joint Interagency Training Center - East</th> <th>Area (NSF)</th> </tr> </thead> <tbody> <tr> <td>Administration</td> <td></td> <td>11,773</td> </tr> <tr> <td>Education</td> <td></td> <td>21,692</td> </tr> <tr> <td>Training</td> <td></td> <td>0</td> </tr> <tr> <td>Sub-Total (NSF)</td> <td>175 Rooms</td> <td>33,465</td> </tr> <tr> <td>Total (GSP)</td> <td></td> <td>45,878</td> </tr> </tbody> </table>	Joint Interagency Training Center - East		Area (NSF)	Administration		11,773	Education		21,692	Training		0	Sub-Total (NSF)	175 Rooms	33,465	Total (GSP)		45,878	6						
Joint Interagency Training Center - East		Area (NSF)																							
Administration		11,773																							
Education		21,692																							
Training		0																							
Sub-Total (NSF)	175 Rooms	33,465																							
Total (GSP)		45,878																							
<table border="1"> <thead> <tr> <th colspan="2">Billing</th> <th>Area (NSF)</th> </tr> </thead> <tbody> <tr> <td>Operations</td> <td></td> <td>39,013</td> </tr> <tr> <td>Sub-Total (NSF)</td> <td></td> <td>39,013</td> </tr> <tr> <td>Total (GSP)</td> <td></td> <td>32,414</td> </tr> </tbody> </table>	Billing		Area (NSF)	Operations		39,013	Sub-Total (NSF)		39,013	Total (GSP)		32,414	7												
Billing		Area (NSF)																							
Operations		39,013																							
Sub-Total (NSF)		39,013																							
Total (GSP)		32,414																							
<table border="1"> <thead> <tr> <th colspan="2">Total Building Area</th> <th>Area (GSP)</th> </tr> </thead> <tbody> <tr> <td>National Guard Bureau</td> <td></td> <td>32,414</td> </tr> <tr> <td>Department of Energy</td> <td></td> <td>45,793</td> </tr> <tr> <td>Armed Forces Readiness Center</td> <td></td> <td>16,809</td> </tr> <tr> <td>Joint Interagency Training Center</td> <td></td> <td>45,878</td> </tr> <tr> <td>Billing</td> <td></td> <td>32,414</td> </tr> <tr> <td>Total (GSP)</td> <td></td> <td>254,070</td> </tr> </tbody> </table>	Total Building Area		Area (GSP)	National Guard Bureau		32,414	Department of Energy		45,793	Armed Forces Readiness Center		16,809	Joint Interagency Training Center		45,878	Billing		32,414	Total (GSP)		254,070				
Total Building Area		Area (GSP)																							
National Guard Bureau		32,414																							
Department of Energy		45,793																							
Armed Forces Readiness Center		16,809																							
Joint Interagency Training Center		45,878																							
Billing		32,414																							
Total (GSP)		254,070																							



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

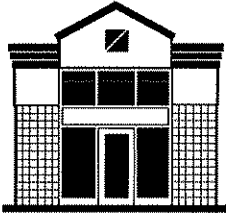
Construction Administration

Value Engineering

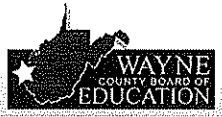
Life Cycle Cost Analysis

Post-Occupancy Evaluation





Repeat Clients:



Quality Assurance

The best way to determine our capabilities is by speaking to clients we have assisted on previous projects. Please review the recommendations letters contained in this brochure, or contact any of our previous clients. ZMM's quality assurance program will help ensure the success of your project.

We work hard at ZMM to be the best we can be. Quality professional services require a Quality Assurance Program and at ZMM this program assures our clients of designs which fully meet their expectations. Our program includes the following six major components:

Goals of Quality Control Program

Identifying Client Expectations & Project Requirements

Selecting Project Team

On-Going Project Appraisal

Post Project Review

Staff Training, Assessment and Enhancement

Knowing and understanding our clients expectations is our goal. Clients do not care what we know until they know that we care.

As part of our ongoing project appraisal we conduct quality assurance reviews at the following stages of every project:

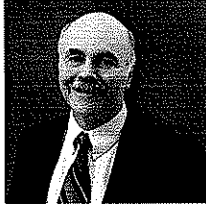
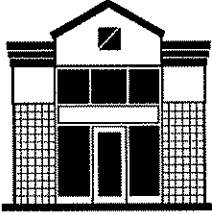
Schematic Design Phase

Design Development Phase

Working Drawing Phase

Construction Phase

We encourage our clients to participate in the quality assurance review process as much as possible. In most cases, the owner's participation is required to insure a quality project. The quality of our work is the key to our continued success and repeat client base.



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.

Chilled Loop Experience

Chilled Water System Design Includes:

Lincoln County High School

550 Ton Primary/VFD Secondary Chilled Water System

8600 MBH VFD Primary Hot Water System

Barboursville Middle School

550 Ton Primary/VFD Secondary Chilled Water System

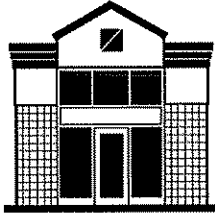
8000 MBH VFD Primary Hot Water System

Southside Elementary/Huntington Middle School

550 Ton Primary/VFD Secondary Chilled Water System

11,000 MBH VFD Primary Hot Water System





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

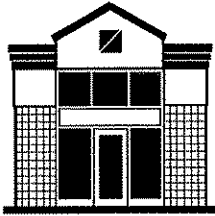
Professional Experience

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.





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

2003 - *Present*, 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

Mountaineer Middle School

Nicholas County High School

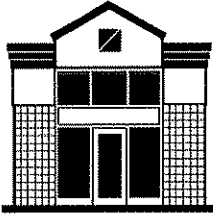
West Virginia Army National Guard - Logan Readiness Center

West Virginia Army National Guard - CFMO Expansion Project

Judge Donald F. Black Courthouse Annex

The Boulevard at 2412 - Residential Development





Steven Branner, AIA, NCARB

Position

Principal, ZMM, Inc.
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 Inc.
1973-1982, Director of Architecture; ZMM, Inc.
1982-present, President; ZMM, Inc.

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

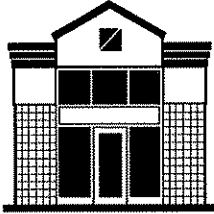
Mr. Branner has been employed with ZMM since 1967. His experience includes all aspects of the management, design, and production of small projects to those exceeding \$100M with an emphasis on Military / Public / Governmental Facilities, Correctional Facilities, and Industrial Facilities.

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:

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





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

1970-1973, FMC Chemicals, Designer/Draftsman

1970-1972, US Army, Construction Draftsman/Model Maker

1973-1988, ZMM, Inc., Electrical Designer/Technician

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

1992-Present, ZMM, Inc., 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

Lincoln County High School

St. Albans High School

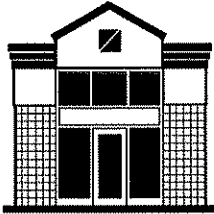
Southside Elementary/Huntington Middle School

Martha Elementary School

Greenbrier East High School

Erma Byrd Higher Education Center





Robert F. Groom

Position

Mechanical and Plumbing Designer, ZMM, Inc.

Education

Mechanical and Plumbing Drafting; Center College, Charleston, West Virginia; 1968-1969

Employment History

1969-present, Mechanical and Plumbing Designer; ZMM, Inc.

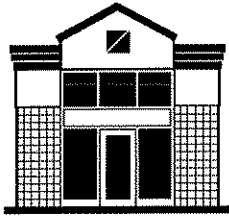
Professional Experience

Mr. Groom's background includes nearly 40 years of mechanical and plumbing design.

This experience has been acquired through working on a variety of projects including: commercial, industrial, office, educational, healthcare and correctional.

Project Experience

WV Regional Jails and Correctional Facilities
WV Air national Guard Training Facility
Pratt & Whitney Aircraft of WV
King of Prussia Mall
Walker Machinery Company
Camp Dawson - Regional Training Institute
Saint Albans High School
Lincoln County High School
West Virginia State Office Buildings
Multiple Plumbing Projects



HVAC Replacement Projects

The Plaza at King of Prussia - Philadelphia, Pennsylvania

MP Services – Design Build

2,500,000 SF, 4,000-Ton Chilled Water Plant, VAV and CV

Air Handling System

Existing and New Spaces

The Court at King of Prussia - Philadelphia, Pennsylvania

MEP Services

Addition of a 3,000-Ton Chilled Water Plant Including

New Structure and Replacement of All Air Handling Units

Primary and Secondary Variable Chilled Water System

The Plaza at King of Prussia - Philadelphia, Pennsylvania

MEP Services

Addition of 800-Tons of Chilled Water Air Handlers Units

Cost: \$30M

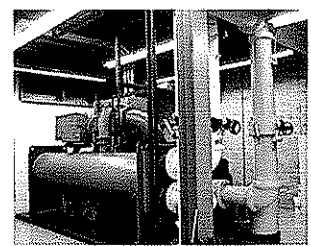
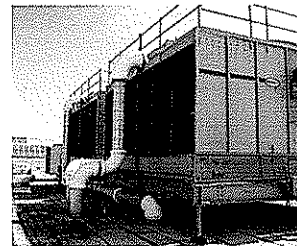
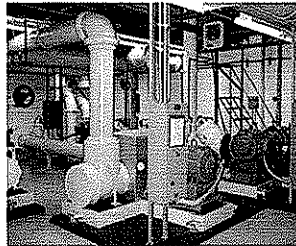
Completed: 2006

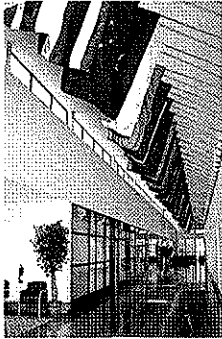
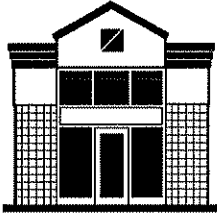
Owner: Mr. Mickey McLaughlin

The Plaza Mall Management

160 North Gulph Road

King of Prussia, PA 19406





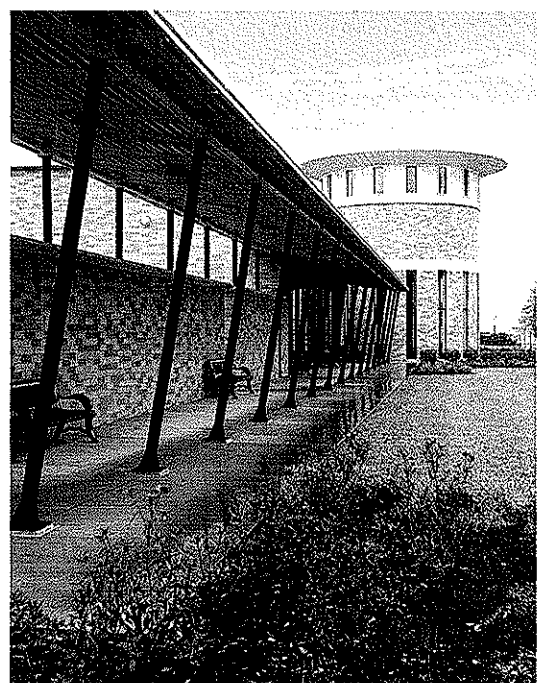
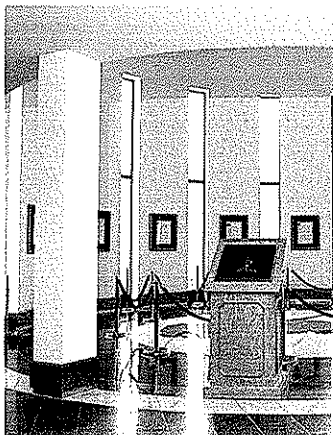
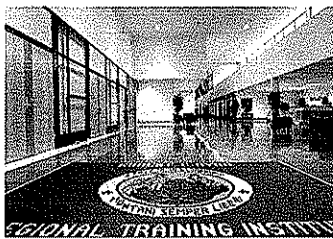
HVAC Replacement Projects

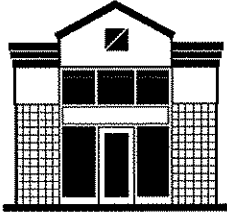
Robert C. Byrd Regional Training Institute Camp Dawson, WV

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.

The Training Institute has a 400 Ton primary/secondary variable flow chiller water system, and an 8,800 MBH primary variable flow hot water system. The hot water system serves variable and constant value air handling units, fan coils, the swimming pool conditioner, and make up air units.

Size: 148,066 SF
Completion Date: 2002





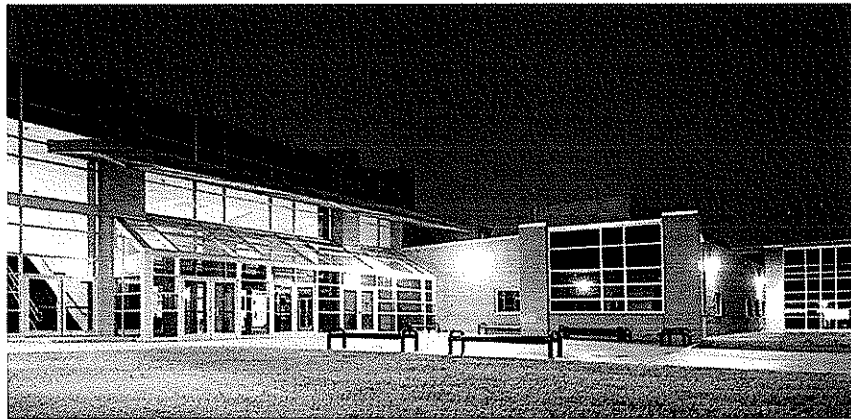
HVAC Replacement Projects

The following projects were **not** fully occupied during the HVAC replacement:

St. Albans High School - St. Albans, West Virginia

The renovation and additions include the razing of about 40% of the existing structure and the construction of 124,000 SF of new facility. The scope of this extensive renovation included the replacement of the existing HVAC system, to include a new heating plant, a 500 ton chilled water plant, rooftop units and installation of one retrofitted high speed elevator.

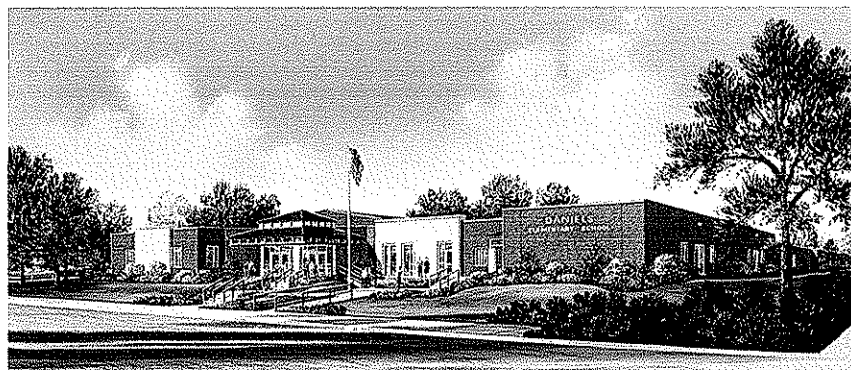
Size: 172,596 SF

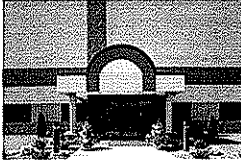
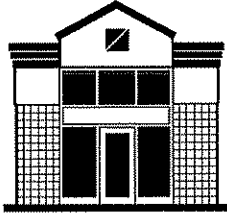


Daniels Elementary School - Daniels, West Virginia

This existing elementary school had an enrollment of about 300 students, but due to the closing of nearby school, needed to be expanded to accommodate 600 students, grades K through 6. The new Daniels Elementary School facility is comprised of 25,000 SF of new building and 32,700 SF of renovated structure.

This extensive renovation included the replacement of the existing HVAC system, to include roof top DX/gas-fired units, one for each classroom. Rooftop units included modulating gas heat and hot gas dehumidification.





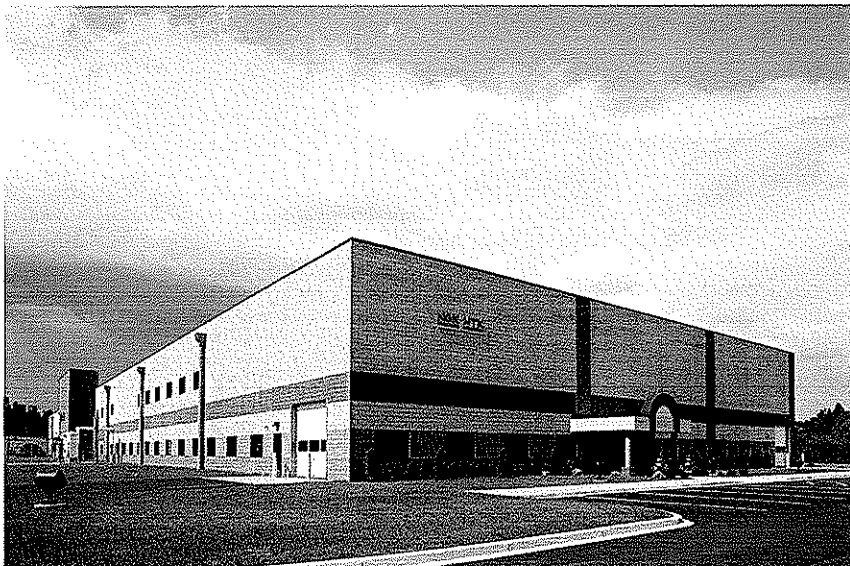
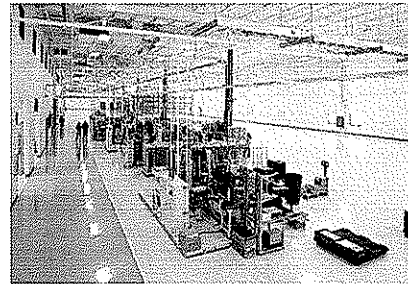
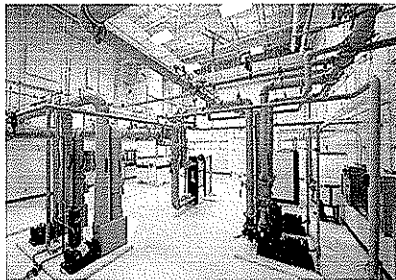
HVAC Replacement Project

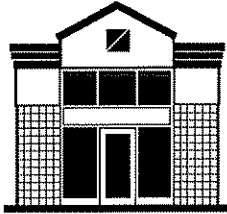
NGK Spark Plugs (U.S.A.), Production Facility Charleston, West Virginia

A manufacturing facility for automobile oxygen sensors, this plant contains 80,000 SF of production/assembly area. The building includes management and administration offices, conference rooms, computer room, employee cafeteria, testing / quality control area, and a shipping / receiving area. The site provides parking for 250, extensive landscaping, and ample space for future expansion.

The building consists of a steel frame (for quick erection) and masonry exterior walls, concrete floor slabs, and acoustical ceilings in most areas. ZMM's services included the integration of process piping into the buildings' HVAC systems for energy recovery and conservation, and provisions for process / assembly line utility services (power, process water, and ventilation).

Due to the success of the first phase of the project, ZMM is currently assisting NGK with additional growth at their campus in Sissonville.





HVAC Replacement Projects

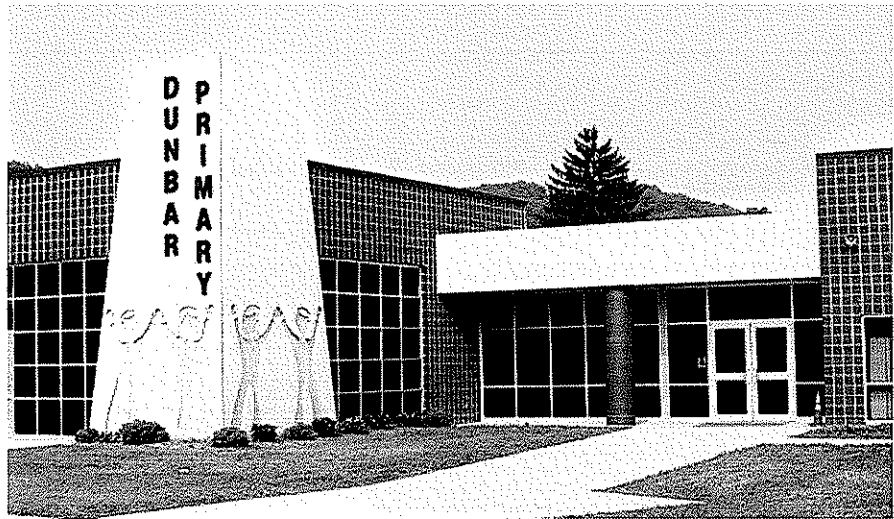
The following projects were fully occupied during the HVAC replacement:

Dunbar Primary School - Dunbar, West Virginia

The school received additions and renovations along with extensive renovation of replacing of the existing HVAC system, to include a new unit ventilator system with hot and chilled water plants. The school was fully occupied during the HVAC project.

New Construction: 14,100 SF

Renovations: 2,500 SF

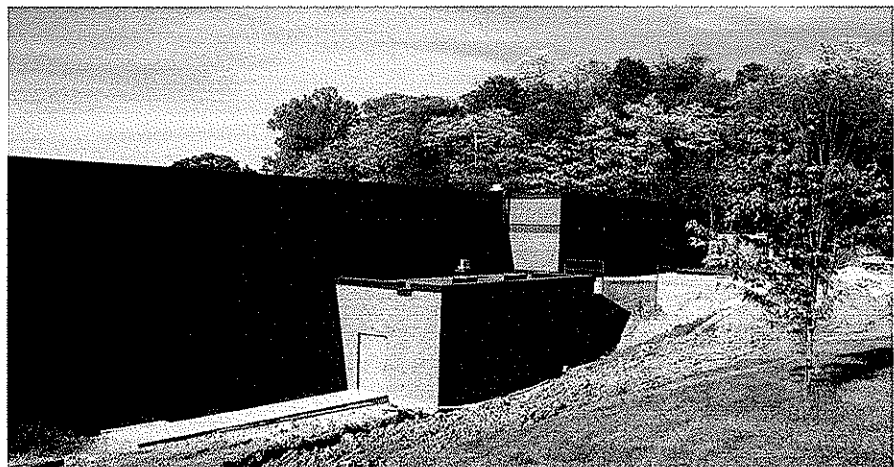


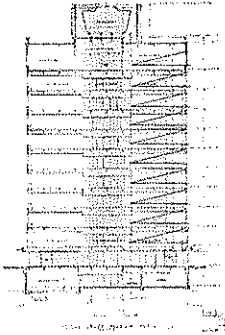
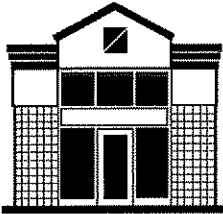
Spring Hill Elementary School - Huntington, West Virginia

HVAC renovation included new hot and chilled water systems and VAV rooftop air handling units with heat pipe heat recovery and critical reset ventilation controls in accordance with ASHRAE 62.

Existing: 59,240 SF

Additions: 616 SF





Renovation Projects

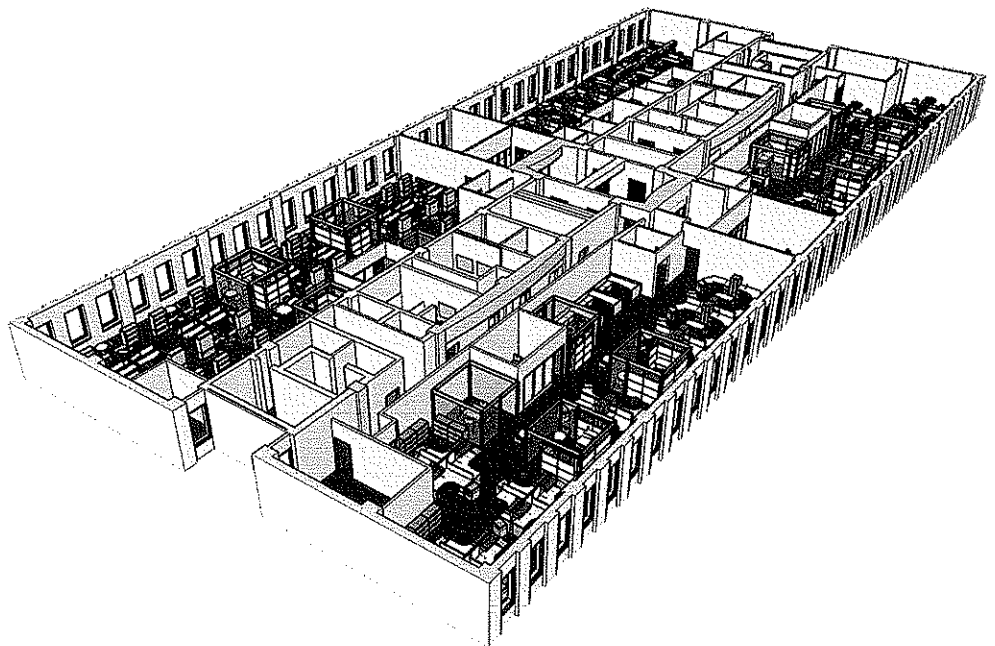
State of West Virginia Capitol Complex Buildings 5, 6, 7 Feasibility Study - Master Plan

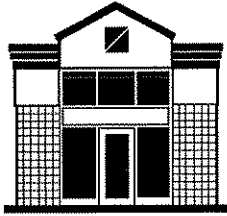
ZMM is currently undertaking an in-depth analysis of Buildings 5, 6, and 7 on the Capitol Campus. The study includes the preparation of as-built plans, as well as an analysis of all building systems, including: Life Safety; Vertical Transportation; Mechanical; Electrical; Data; Façade; Structure; and Roofing. The analysis also includes a study related to potential hazardous materials in the facility.

Once the initial analysis is complete, ZMM will develop several options related to the rehabilitation of the existing facility. Prototypical floor plans are being designed currently as well as major infrastructure and utility upgrades. ZMM is also determining sustainable design principles that will be applicable as the renovations are undertaken.

Additionally, ZMM has commenced with the design of the 10th floor for the office of technology.

Size: 500,000 SF
Cost: TBA
Completed: TBA
Owner: Mr. David Oliverio, Director
General Services Division
1900 Kanawha Blvd., East
Charleston, WV 25305
304.558.3517





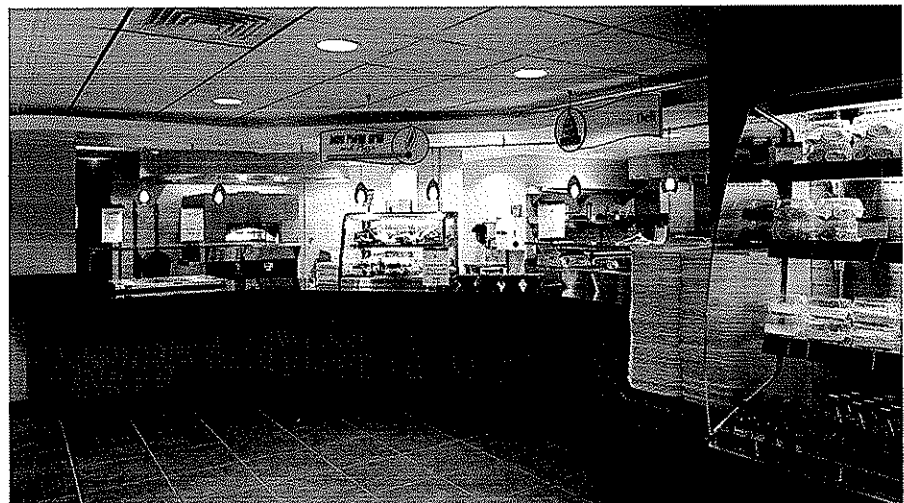
Renovation Projects

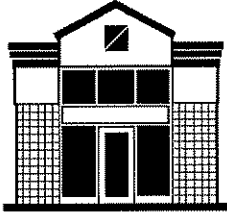
State of West Virginia Capitol Cafeteria Renovation Charleston, WV

This project involved renovating an existing food service area in the WV Capitol Building. The new renovations include a full service kitchen, self serve area and seating for 300 people. ZMM worked with a kitchen consultant and provided demolition drawings, base architectural, mechanical and electrical drawings.

The project included design of the first phase of a wet pipe sprinkler system that will serve the entire Capitol. In addition, ZMM also provided the documents to replace the Capitol medium voltage transformers located in the basement vault. ZMM met stringent timeline for a critical construction completion date.

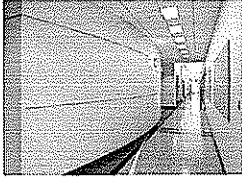
Size: 14,000 SF
Cost: \$3.7M
Completed: 2007





Higher Education Facilities

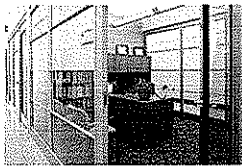
Erma Byrd Center Public Higher Education Center Beckley, WV



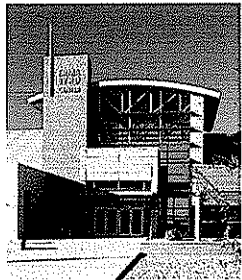
This project provides a central location for classroom and administrative space to be shared by six different colleges and universities. It is the first building of a planned campus environment to be comprised of other classroom buildings and research facilities.



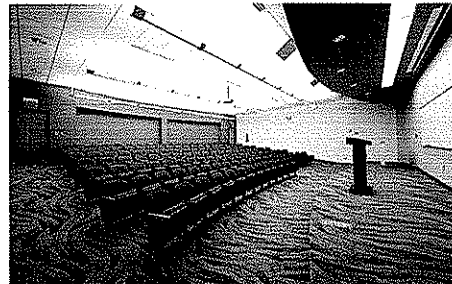
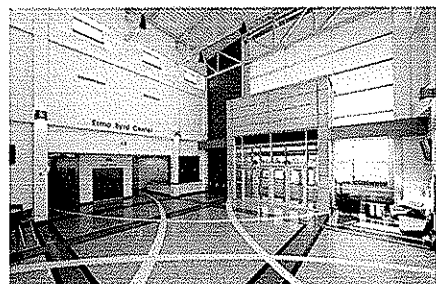
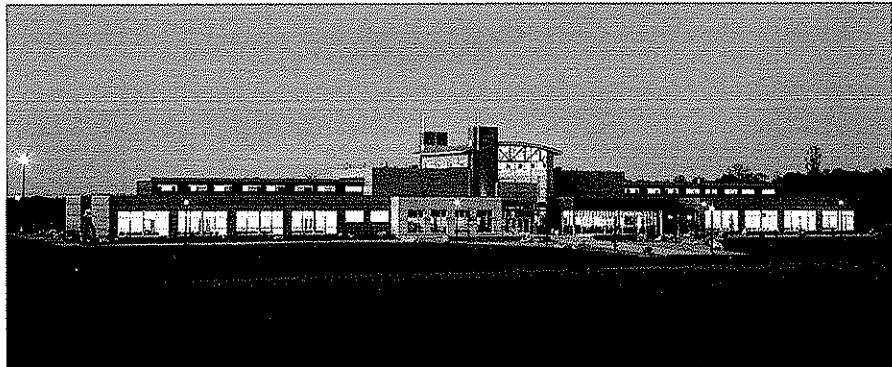
The project consists of 29,700 SF on the main level and 3,300 SF of mechanical mezzanine. Being a teaching facility, the building itself is designed to be a teaching tool. Daylighting is incorporated throughout the building and the mechanical equipment is designed to be viewed and monitored by students 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





High School Projects

Lincoln County Comprehensive High School

Lincoln County Schools

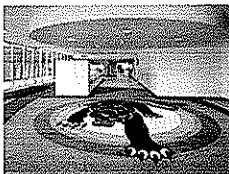
Hamlin, WV



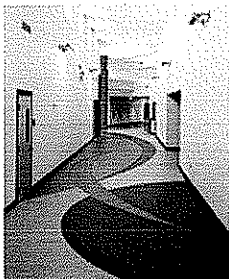
This consolidated senior high school for 850 students in grades 9 through 12, includes two gymnasiums with seating for 840 in the main gym, full food service facilities, a 300 seat auditorium, a library featuring state of the art technology, and all required curricular classroom spaces.



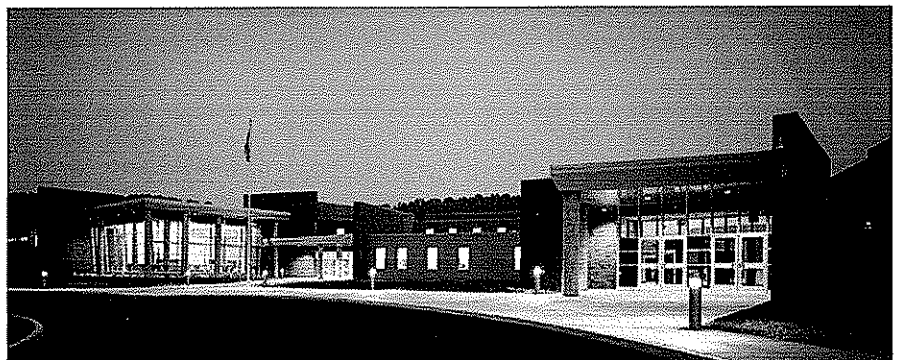
Vocational space is included in the facility making it one of the new breed of comprehensive high schools. The building is air conditioned with a four pipe, hot water/chilled water, air handling system meeting all indoor air quality requirements. It also includes LAN cabling system, integrated classroom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

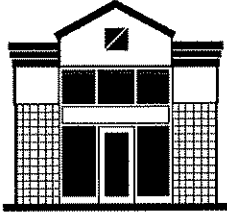


This facility is one of the first educational buildings in the state to include sustainable building design features such as classroom daylighting with automatic lighting control, high efficiency HVAC equipment, and reduced storm water runoff.



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





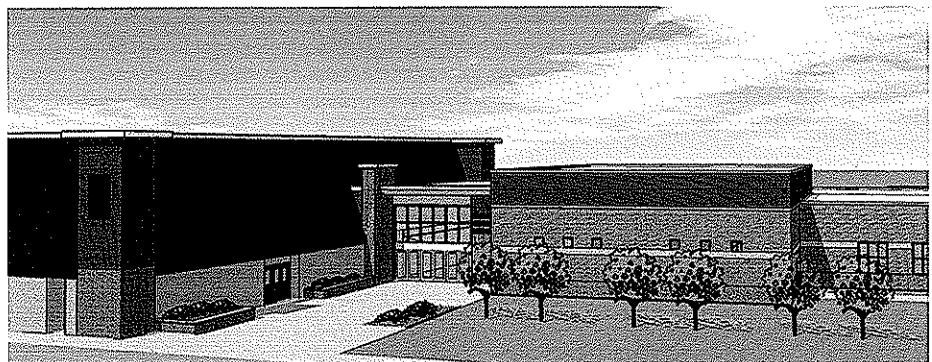
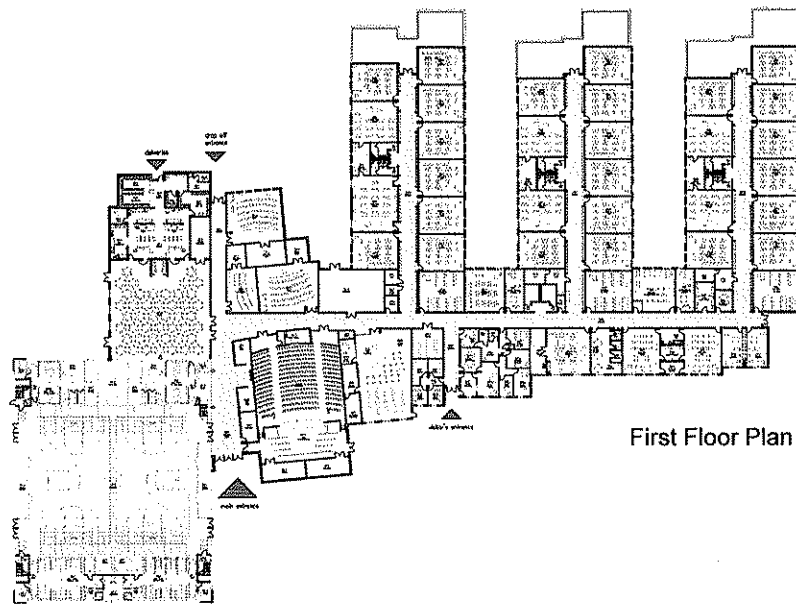
Middle School Projects

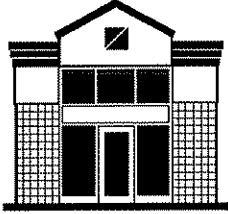
Barboursville Middle School

Cabell County Schools
Barboursville, WV

This new Middle School for 802 students, grades 6 through 8, and currently under construction, is located in Barboursville, West Virginia. The new Middle School includes a commons/cafeteria common use space, stage, full size gymnasium, food preparation facilities, science, art and music classroom spaces. Unique to school facilities, this Middle School will house a computer technology laboratory, a technical education classroom, and separate science classrooms for each grade level.

Size: 114,791 SF
Project Cost: \$16.7M
Estimated Completion: Spring 2009





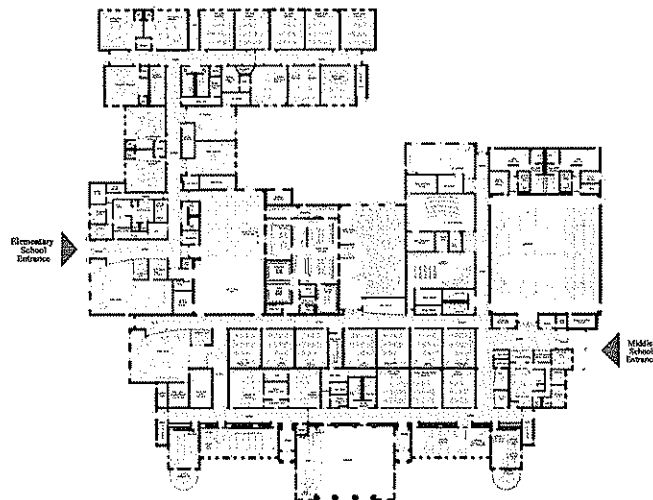
Elementary School Projects

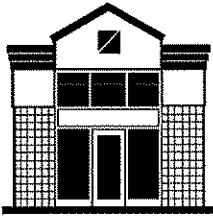
Southside Elementary and Huntington Middle School

Cabell County Schools
Huntington, WV

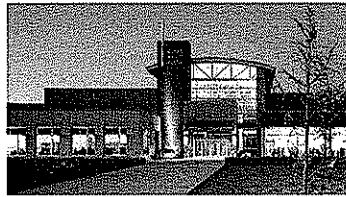
Cammack Elementary/Cammack Middle School will now be known as Southside Elementary and Huntington Middle for 1,014 students grades Pre-K to 8th grade. The new construction includes renovating the auditorium and existing classrooms remaining in the demolition process. The school will include food prep facilities, cafeterias for the elementary and middle schools. Also, a physical education room, gymnasium, media center, art and music classrooms and all other traditional elementary school spaces.

Size: 158,194 SF
Estimated Completion: 2010





Award Winning Design



2008

Erma Byrd Center

Beckley, West Virginia

AIA HONOR AWARD West Virginia Chapter
Excellence in Architecture

AMERICAN SCHOOL & UNIVERSITY
Outstanding Building Design



2007

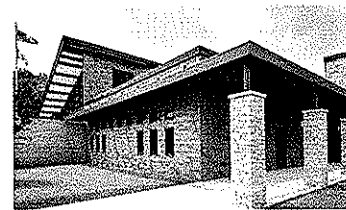
Lincoln County High School

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

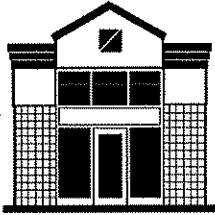
St. Albans High School

St. Albans, West Virginia

IMPACT ON LEARNING AWARD
Effective Transformation

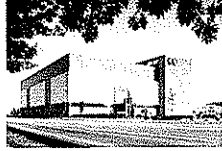
EDUCATION DESIGN SHOWCASE
Outstanding Building Design

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



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: Ad B K Date: 19-FEB-09