

December 14, 2021

Mr. Josh Hager, Senior Supervisor  
Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305-0130

ZMM ARCHITECTS ENGINEERS



**Subject: Statement of Qualifications – A/E Services for Plum Orchard WMA  
New Headquarters (DNR2200000006)**

Dear Mr. Hager:

ZMM Architects and Engineers is pleased to submit the attached information to demonstrate our experience and qualifications to provide architectural, engineering, and construction phase services for the proposed Plum Orchard Wildlife Management Area Headquarters and Equipment Storage Facilities. Established in 1959, ZMM is a local architecture and engineering firm, and is noted for design excellence and client focus. Our integrated design approach makes ZMM unique among design firms in West Virginia and will help to ensure the quality of the services that we will provide.

ZMM understands that the scope of the current project is to provide architectural and engineering services, including construction administrative services, for a New Headquarters at Plum Orchard WMA. The proposed facilities “may include offices, sleeping/living quarters, equipment storage, and maintenance areas.” ZMM Architects and Engineers has provided design services for similar facilities at the Tomblin Wildlife Management Area (WMA). Additional qualifications of our team include:

**Experience.**

ZMM has recent experience successfully collaborating with the West Virginia Division of Natural Resources (WVDNR) on the Tomblin WMA project noted above, the Forks of Coal Claudia Workman Wildlife Education Center (and the adjacent District V Headquarters Improvements), renovations to the McKeever and Mountain Creek Lodges at Pipestem, as well as on the proposed Beech Fork Lodge. In addition to our experience working with the WVDNR, ZMM has designed a variety of projects near Plum Orchard WMA, including New River Primary School, Oak Hill Middle School, Oak Hill High School, and the Glen Jean Armed Forces Reserve Center.

**Quality.**

ZMM has a history of providing high quality design services throughout West Virginia. The quality of the services we provide is demonstrated by the number of our repeat clients, and the recognition of our work with both statewide and national planning and design awards. *In fact, ZMM has been recognized with twenty-four statewide design awards since 2005 by the West Virginia Chapter of the American Institute of Architects – recognition of a commitment to design quality that is unrivaled in West Virginia.*

**Talent.**

With over sixty-five local employees ZMM provides an integrated design approach by delivering all building related design services including architecture, engineering (civil, structural, mechanical, and

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electrical), interior design, and construction administration in-house. ZMM's team includes twelve registered architects, fourteen professional engineers, interior and lighting designers, and construction administrators. Our architects and engineers are highly qualified and have worked together to deliver projects with similar scope and complexity.

Thank you for taking the time to review the attached qualifications that includes information about our firm history, ZMM's project approach, relevant project experience, team member qualifications, and references. Additionally, please visit our website at [zmm.com](http://zmm.com) to see the full range of projects that we have designed, and to learn about working with ZMM from a client's perspective. We appreciate your consideration for this important assignment and look forward to the opportunity to assisting the West Virginia Division of Natural Resources on the Plum Orchard WMA project.

Respectfully submitted,  
**ZMM Architects and Engineers**



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



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# PLUM ORCHARD WILDLIFE MANAGEMENT AREA HEADQUARTERS AND EQUIPMENT STORAGE FACILITIES:

## Anticipated Concepts and Methods of Approach

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### Project Understanding

Based upon information provided by WV Tourism and the West Virginia Division of Natural Resources, ZMM understands that “Plum Orchard Lake is located in southern West Virginia, near Oak Hill. The 3,201-acre Plum Orchard Lake Wildlife Management Area ranges across a forest of oak and hickory in a wide cove between Packs and Haystack mountains in western Fayette County. The area is a drive of approximately eight miles from the New River Gorge National Park and Preserve. Though established as a public hunting and fishing area, the state-managed preserve may best be known as the location of 202-acre Plum Orchard Lake.” The WMA includes boat ramps, canoe access, bathrooms, primitive camping, hiking trails, fishing docks and picnic spots. Additionally, there are multiple camping areas that include 38 campsites.



Plum Orchard Lake (Photos from WVDNR)The scope of the current project is to provide architectural and engineering services, including construction administrative services, for a New Headquarters at Plum Orchard WMA. The proposed facilities “may include offices, sleeping/living quarters, equipment storage, and maintenance areas.” The project will also include any other necessary work or site improvements required to implement the project. ZMM Architects and Engineers has provided design services for similar facilities at the Tomblin Wildlife Management Area (WMA). Services have included the design of a Visitor Center (including both offices and sleeping/living quarters), a shop/maintenance building, an access road, utility extensions, as well as an elk viewing platform. The proposed Elk Visitor Center and the Elk Viewing Platform concentrate on the visitor experience, creating a dynamic space to experience this

unique area. One of the key concepts of the proposed building design is to represent our wild and wonderful state by incorporating natural materials such as stone, a variety of woods, and other natural finishes. ZMM would recommend a similar approach for the Plum Orchard WMA, with a focus on the connection to the nearby New River Gorge National Park and Preserve.



The EOI also contains the following goals and objectives:

“Goal/Objective 1: Review existing plans and conditions as well as the operation of the facility and evaluate while communicating effectively with the owner to determine a plan that can be implemented in a manner that will minimize disruption to concurrent operation of the facility and meet all objectives.

Goal/Objective 2: As a portion of this process outlined in Objective 1, provide all necessary services to design the facilities described in this EOI in a manner that is consistent with The Division of Natural Resources needs, objectives, current law, and current code; while following the plan to design and execute the project within the project budget.

Goal/Objective 3: Provide Construction Contract Administration Services with competent professionals that ensures the project is constructed and functions as designed.”

#### **Design Approach (To Meet the Stated Goals and Objectives)**

The first step in any successful new construction project is to establish the Owner’s vision for the project. Although this seems like a simple step it highlights the fact that the ZMM team will be delivering the WVDNR’s vision for the project. Once the vision has been established, the team will undertake the programming and planning phase. At the completion of the programming and planning phase, all required needs will be identified, and any scope/budget issues will be resolved.

Once the programming and planning phase is complete, ZMM will develop conceptual plans and renderings reflecting Plum WMA Headquarters and Equipment Storage Facilities that meets each need identified, while looking toward potential future growth. The renderings will be used to help communicate your vision for the facilities to all WVDNR stakeholders. Once the conceptual design is approved our team will develop plans, specifications, and bidding documents for the project.

Drawings, specifications, and estimates will be submitted for review at the end of each design phase (schematic, design development, and construction documents). Our previous relevant experience working on similar projects (Tomblin WMA) will help ensure that all documents meet your requirements and standards – saving the WVDNR from expending additional effort and expediting the design phase of the project. The ZMM team will also submit the drawings and specifications to all required regulatory agencies including the State Fire Marshal’s Office for approval prior to the project going out to bid.

Once the documents have been approved, ZMM will assist with the bidding and construction phases of the project, including participation in a pre-bid meeting, developing any required addenda, responding to RFI’s, reviewing submittals, and conducting and preparing minutes of construction progress meetings. Our efforts will continue through substantial and final completion inspections and include an eleven-month warranty walk through. Our goal throughout this process will be to act as part of your team, with the objective of ensuring the seamless delivery of the project for the WVDNR.

## Construction Phase Services

During the construction phase ZMM will provide additional resources to help manage a timely flow of information between all parties (Owner, Architect, and Contractor). The ZMM project manager will continue to serve as the primary representative of our team and will attend all construction progress meetings. Our team also employs in-house construction administrators (who will assist the project manager) and construction phase administrative staff who track all information (incoming and outgoing) during the construction phase to ensure that the design team is being responsive to project needs. This information, as well as the design progress noted above, is reviewed at weekly internal coordination meetings to verify that we are meeting all expectations and deadlines.



During project construction the design team will continue to be engaged in assuring that the materials and systems being provided, and installed, comply with the design intent. Standard construction phase services include:

- Attend regularly scheduled construction progress meetings.
- Review and respond to shop drawings and submittals.
- Respond to RFI's generated during construction.
- Review and respond to change orders as needed.
- Participate as needed in weekly progress update conference with Owner.
- Make site visits to review construction progress and generate an inspection report for each visit.
- Assist with developing a punch-list of remaining work.
- Complete a substantial and final completion inspection.
- Assist as needed in the startup and project closeout process.

## ZMM Team

ZMM Architects & Engineers has assembled a project team capable of addressing the varied and unique needs of the project. Please note that aside from the independent cost estimating that ZMM is proposing to provide all design services in-house without the use of any consultants. We are confident that this is the most efficient manner to provide design services for the project, and that this team provides the WVDNR with the best opportunity for a successful project. The full design team will include:

### Team Member

ZMM Architects & Engineers

### Role

Principal/PM  
QA/QC  
Architecture  
Architecture/Designer  
Interior Designer  
Specifications  
Engineering Principal/PM

### Proposed Staffing

Adam Krason, AIA, LEED-AP  
David Ferguson, AIA  
Mike Phillips, AIA  
Billy Simms  
Carly Chapman  
Mark Epling, AIA  
Bob Doeffinger, PE

Civil Engineer	Ben McMillan, PE
Structural Engineer	Mike White, PE
Electrical Engineer	David Gunnoe, PE
Sr. Mechanical Engineer	John Pruett, PE
Construction Admin.	Keith Gonzales
CA Assistant	Amy Rhodes
Estimating	Win Strock

Resumes detailing the experience of the proposed team members are contained in Tab 4.

Many members of our proposed team recently collaborated on the design of the Tomblin WMA Office/Shop and Elk Viewing Platform, the Forks of Coal Claudia Workman Fish and Wildlife Education Center, the proposed Beech Fork Lodge, and the District V Headquarters projects. This experience working with the DNR helped to establish a relationship where our team functioned as an extension of the DNR, with a singular focus of implementing your vision for the project. We propose a similar relationship for the Plum Orchard Wildlife Management Area Headquarters and Equipment Storage Facilities.



**Project Communication**

During the design phase Adam Krason, AIA, LEED-AP and Mike Phillips, AIA will serve as the primary contacts for the design team. These key team members as well as all primary WVDNR contacts would be included on all communication to facilitate an open discussion throughout the projects – in a manner that allows the DNR to remain actively involved in all design decisions. All correspondence will be copied to this core group. As the project progresses regular bi-weekly meetings will be held to review the design progress, outstanding issues, as well as any regulatory or budget concerns. Meeting minutes will be produced to document discussion items, decisions, and responsibility for follow-up. Our team’s recent experience working with the WVDNR help facilitate this open communication.

During the construction phase additional resources will be added to ensure prompt and efficient responses to any issue that may arise. The project architect, Mike Phillips, AIA will coordinate the effort of the design team, and will be assisted by Keith Gonzales. Additionally, all submittals, pay applications, and RFI’s will be logged and tracked by Amy Rhodes. Ms. Rhodes will update the entire project team (WVDNR, ZMM, and Contractor) weekly regarding outstanding items. ZMM utilizes ShareFile during the construction phase to provide all team members with timely access to project documents.

## Budget Control

Our team has been providing professional design services in West Virginia for more than sixty (60) years. This experience has allowed our team to develop a thorough understanding of the various construction markets and associated bidding regions that exist throughout West Virginia, but with a focus on projects in the area of the proposed Tomblin WMA Elk Visitor Center. Our team for this project will include Win Strock, a former contractor that regularly provides independent estimates to ZMM. Mr. Strock and ZMM have successfully collaborated on the following projects:

- Claudia Workman Fish and Wildlife Education Center
- Beech Fork Lodge
- Coonskin Park Maintenance Building
- Clendenin Elementary School
- Williamstown Elementary School
- Edgewood Elementary School
- Jackson County Armed Forces Reserve Center
- Logan-Mingo Readiness Center
- Morgantown Readiness Center
- State Police Information Services Center
- State Office Building 5 & 6 – Various Projects



## Construction Duration

Nearly every project that our team is engaged to perform design services for has a 'hard' deadline for completion, many times tied to the availability or expiration of project funding. ZMM consistently delivers on projects with challenging schedule constraints. ZMM will ensure that this project will be completed in the agreed construction period utilizing the following methods:

- ZMM has developed Division 1 documents that tie the receipt of all deliverables required to administer the construction phase of the project to payment applications. ZMM will reject any payment application that is not accompanied by all required information including submittal schedules and logs, RFI logs, updated project schedules, etc.
- ZMM monitors all construction phase submittals and correspondence to verify that we are returning information at a pace that will help expedite project completion. ZMM management reviews the status of all RFI's and submittals weekly. ZMM will also staff the construction phase with staff that will be able to provide immediate answers at the project site to expedite the work.
- ZMM will work with the WVDNR to develop a realistic construction schedule that includes anticipated weather days. This schedule will be included in the specifications, and reviewed at the pre-bid meeting to reinforce the critical nature of meeting the schedule, and the intent of enforcing liquidated damages.

## Experience with Each Required Discipline

ZMM Architects and Engineers has assembled a team to meet the unique requirements of the project. Our team is comprised of some of the leading professionals in West Virginia, and is experienced in each discipline noted below. With over sixty-five (65) local employees ZMM provides an integrated design approach by delivering all building-related design services including architecture, engineering (civil, structural, mechanical, and electrical), interior design, and construction administration in-house. ZMM's team includes twelve registered architects, fourteen professional engineers, interior and lighting



designers, and construction administrators. Our architects and engineers are highly qualified and have worked together to deliver projects with similar scope and complexity. *Additionally, the quality of ZMM's design effort has been recognized by the American Institute of Architects West Virginia Chapter with twenty-four design awards since 2005 – an achievement that is unrivaled in West Virginia.*

**Pre-Design**

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

**Design**

- Architectural Design
- Sustainable Design
- Interior Design
- Landscape Architecture
- Civil Engineering
- Structural Engineering
- Mechanical Engineering
- Electrical and Low Voltage Engineering
- Plumbing and Fire Protection Engineering
- Energy Consumption Analysis
- Net Zero Design

**Post Design**

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



**Summary**

ZMM possesses previous WMA Headquarters design experience, additional recent WVDNR experience, local design experience (New River Primary School, Oak Hill Middle School, Oak Hill High School, Glen Jean AFRC), and project approach to ensure the successful delivery of the Plum Orchard WMA Headquarters and Equipment Storage Facilities project for the West Virginia Division of Natural Resources. Our team's previous experience working on this project, our commitment to design quality, and our approach to control the project budget and schedule makes us the right partner for the WVDNR for this engagement.

# ABOUT ZMM ARCHITECTS & ENGINEERS

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ZMM was founded in 1959 in Charleston, West Virginia by Ray Zando, Ken Martin, and Monty Milstead. Since the inception of the firm, ZMM has been dedicated to providing an integrated approach to building design for our clients.

ZMM delivers this integrated approach by providing all building related design services, including architecture, engineering (civil, structural, mechanical, and electrical), interior design, and construction administration with our in-house team. Our integrated design approach makes ZMM unique among architecture/engineering firms, and helps to ensure the quality of our design solutions by providing more thoroughly coordinated construction documents.



ZMM has maintained a diverse portfolio since the founding of the firm. Early commissions included higher education projects for West Virginia University and Concord College, State Office Buildings 5, 6, & 7 on the State of West Virginia Capitol Campus, and armories for the West Virginia Army National Guard.

Maintaining a diverse practice for over 60 years has provided ZMM with extensive experience in a variety of building types, including educational facilities, governmental facilities (military, justice, correctional), healthcare facilities, recreation facilities, commercial office space, light industrial facilities, and multi-unit residential buildings.

The original partners transferred ownership of the firm to Robert Doeffinger, PE and Steve Branner in 1986. Mr. Doeffinger and Mr. Branner helped guide and expand the firm to its present size of 35 people. Over the past 20 years David Ferguson, AIA, and Adam Krason, AIA, LEED-AP joined in ownership of the firm. In 2020, Randy Jones also joined in ownership of the firm when ZMM acquired Blacksburg-based OWPR Architects & Engineers to create a regional design firm that employs more than 50 highly-skilled professionals.

ZMM has become a leader in sustainable / energy-efficient design, and a trusted resource on complex renovation projects. ZMM's unique renovation project approach and ability to



## About ZMM Architects & Engineers (cont.)

provide comprehensive design services has also led the firm to be selected to improve landmark buildings, including the Charleston Coliseum & Convention Center, the Clay Center for the Arts and Sciences, the State of West Virginia Culture Center, and the West Virginia State Capitol Building. Additional significant projects designed by the firm include the Explorer Academy (Cabell County Schools), the Logan-Mingo Readiness Center, the Manassas Park Community Center and Natatorium, the design of the Fourth High School (Frederick County Public Schools), the new Harrington Waddell Elementary School (Lexington City Schools), CAMC Teays Valley ICU, and Ridgeview Elementary School (Raleigh County Schools). ZMM has also provided design services on more than 300 school projects throughout the region.

ZMM's building-related design services include:

### Pre-Design

Educational Facility Planning  
Existing Building Evaluation  
Space Planning  
Master Planning

Programming  
Feasibility Studies  
Site Evaluation and Analysis  
Construction Cost Estimating

### Design

Architectural Design  
Interior Design  
Lighting Design

Sustainable Design  
Landscape Architecture

### Engineering

Civil Engineering  
Mechanical Engineering  
Energy Consumption Analysis

Structural Engineering  
Electrical Engineering  
Net Zero Buildings

### Post-Design

Construction Administration  
Life Cycle Cost Analysis

Value Engineering  
Post-Occupancy Evaluation

As ZMM looks to the future, we remain committed to the ideal of providing high-quality, client-focused design solutions that meet budget and schedule requirements. We listen, we respond promptly with innovative and efficient solutions, and we deliver quality projects and develop lasting relationships. You see us in YOUR community every day.



# AWARD WINNING DESIGN

## 2020

**AIA West Virginia Chapter: Merit Award**  
*Achievement in Architecture for New Construction*  
Mountain Valley Elementary School  
Bluefield, West Virginia

**AIA West Virginia Chapter: Merit Award**  
*Achievement in Architecture*  
Ridgeview Elementary School  
Crab Orchard, West Virginia

## 2019

**AIA West Virginia Chapter: Honor Award**  
**AIA West Virginia Chapter: Citation Award**  
**AIA West Virginia Chapter: People's Choice Award**  
Charleston Coliseum & Convention Center  
Charleston, West Virginia

## 2018

**AIA West Virginia Chapter: Citation Award**  
*Unbuilt Project*  
Charleston EDGE  
Charleston, West Virginia

## 2017

**AIA West Virginia Chapter: Merit Award**  
*Achievement in Architecture*  
Explorer Academy  
Huntington, West Virginia

**AIA West Virginia Chapter: Merit Award**  
*Achievement in Sustainability*  
Logan - Mingo Readiness Center  
Holden, West Virginia

## 2016

**AIA West Virginia Chapter: Merit Award**  
*Achievement in Architecture in Interior Design*  
Christ Church United Methodist  
Charleston, West Virginia



# AWARD WINNING DESIGN

## **AIA West Virginia Chapter: Merit Award**

### *Achievement in Architecture*

Gauley River Elementary School  
Craigsville, West Virginia

## **2015**

## **AIA West Virginia Chapter: Honor Award**

### *Achievement in Architecture in Sustainable Design*

Edgewood Elementary School  
Charleston, West Virginia

## **AIA West Virginia Chapter: Merit Award**

### *Achievement in Architecture*

Kenna Pk-5 School  
Kenna, West Virginia

## **2014**

## **AIA West Virginia Chapter: Merit Award**

### *Achievement in Architecture in Sustainable Design*

Huntington East Middle School  
Huntington, West Virginia

## **AIA West Virginia Chapter: Merit Award**

### *Achievement in Architecture*

Southern West Virginia Community & Technical College  
Williamson, West Virginia

## **AIA West Virginia Chapter: Merit Award**

### *Achievement in Architecture in Interiors/Graphics*

Girl Scouts of Black Diamond Council  
Charleston, West Virginia

## **2012**

## **AIA West Virginia Chapter: Honor Award**

### *Excellence in Architecture*

West Virginia Housing Development Fund Building  
Charleston, West Virginia

## **2011**

## **AIA West Virginia Chapter: Honor Award**

### *Excellence in Architecture in Historical Preservation*

Southside Elementary/Huntington Middle School  
Huntington, West Virginia





# CLAUDIA L. WORKMAN FISH & WILDLIFE EDUCATION CENTER

LOCATION ALUM CREEK, WV	SIZE 7,000 SF	COMPLETION 2021	COST \$5M
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ZMM provided design services for the Education Center, which includes exhibits about West Virginia's native wildlife, including conservation, game management, forestry, stream restoration, and how to identify native plants and animals.

The center is located on 102 acres of land, along with the WVDNR District 5 Headquarters. ZMM's services included the development of the site and facility, as well as coordination with civil/environmental, exhibit design, and marketing team members. The facility, nestled in the beautiful landscape, concentrates on visitor and user experience, while creating a dynamic space to celebrate West Virginia's greatest natural treasures. One of the key concepts is to represent our wild and wonderful state by incorporating natural materials such as stone, a variety of woods, and natural finishes.

A central axis frames an inspiring view and sets the tone for the visitor with heavy timber, vaulted ceilings, and natural light. The northwest quadrant is dedicated to administration and classroom functions, while the southwest quadrant is composed of utilitarian spaces. The eastern half of the building is devoted to exhibit space. The angled walls and exterior glass create a vibrant exhibit space, as the outdoors become part of the exhibit, as a large, elevated deck spans across the landscape, creating the ultimate viewing platform for the breathtaking views of the Forks of Coal State Natural Area.





# BEECH FORK STATE PARK LODGE

LOCATION | COMPLETION | COST  
LAVALETTE, WV | TBD | \$28.49M

The goal of the lodge study was to help determine the feasibility for a new lodge at Beech Fork.

This objective was achieved through the development of a concept for a 75-room lodge, located on the banks of Beech Fork Lake in Wayne County, WV, which is designed to benefit a variety of visitors. The form of the building was influenced by the site configuration, as well as the functions contained within it.

The floor plan is arranged in a way to separate the guestrooms and other guest-only facilities from the more public functions of the building, such as the restaurant, pub, gift shop, and meeting room. This allows visitors who may not be staying at the lodge to use these areas, without encroaching on the privacy of lodge guests. All of the guestrooms are arranged to have access to views of the lake. Those views are also shared by the restaurant, meeting room, and the recreation areas.

The exterior of the building is designed to simulate the craftsman style to evoke a more relaxed, comfortable, and informal feel for guests and visitors. The brick, stone, siding, and roof materials are common to the area and offer low-maintenance and durability to provide a long-lasting, attractive structure.



# ADDITIONAL WVDNR EXPERIENCE

Pipestem Resort State Park - McKeever and Mountain Creek Lodge Renovation  
Pipestem, WV

Hawks Nest State Park - Miscellaneous Projects  
Ansted, WV

Twin falls State Park - Lodge and Convention Facility Expansion and Master Plan  
Mullens, WV

District V Headquarter Renovation  
Alum Creek, WV

Tomblin Wildlife Management Area Office/Shop and Elk Viewing Platform  
Alum Creek, WV







# FREDERICK COUNTY TRANSPORTATION FACILITY

LEED  
SILVER

LOCATION | SIZE | COMPLETION | COST  
WINCHESTER, VA | 52,638 SF | 2013 | \$17M

The design of the transportation complex consists of two separate primary buildings: one for administration offices, the other houses vehicle maintenance.

The Administration Building contains eleven offices, two conference rooms, a lobby with receptionist area, a work area, a storage area, and restrooms. This building also contains a driver training room for 50 drivers, and a driver lounge. The interior is designed to allow for future expansions. The Administration Building was awarded LEED Silver Certification.

The Vehicle Maintenance Building has office space in the center with repair bays on each side. The office space includes seven offices (with the potential to grow), a lobby with receptionist area, restrooms, a waiting room, a separate employee lounge with restrooms and showers, a technical research room, a work room, and a custodial closet. A separate area of this building includes a tool storage room, a component room, parts storage, fluid storage, a pump room, and a compressor room. Heavy-duty bays are grouped together on one side of the facility. The opposite side houses light-duty bays.

The Wash and Fuel Facility has four fueling service bays, a tire service bay, two wash bays, and an office. The complex also has a Storage Facility.





# MORGANTOWN READINESS CENTER

LOCATION | SIZE | COMPLETION | COST  
MORGANTOWN, WV | 54,000 SF | 2013 | \$22M

The Morgantown Readiness Center is a unique military facility. While supporting traditional military functions including the 1-201st Field Artillery, a significant portion of the building was designed for the 249th Army Band.

The Readiness Center contains a performance hall, pre-function spaces, as well as a variety of training and rehearsal areas. The stage is a large rehearsal space with an adjacent elevated recording area. A large operable partition separates the auditorium from the drill hall. Acoustically, this challenge was met by creating a drill hall with an irregular shape contained within a rectilinear, sloped barrel arch form.

The facility is located on an abandoned airport runway approximately 20 miles from Camp Dawson. As troops will often travel through the Readiness Center, the facility needed to function as a "gateway." This was accomplished by utilizing similar materials and a tower-like feature to mark entry.

The Morgantown Readiness Center is also a sustainable building. The U-shaped layout of the facility improves access to daylighting and views, while also limiting public access to the Guard's administrative and storage areas. The final result is a harmonious composition that reflects both its function and the environment.





# LOGAN-MINGO READINESS CENTER

LOCATION HOLDEN, WV	SIZE 54,000 SF	COMPLETION 2015	COST \$12M	AWARDS 2017 AIA WV MERIT AWARD
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The design of the Logan-Mingo Readiness Center was developed by examining both the program and building site, and developing strategies to design a facility that is functional, responds to site, security, and aesthetic parameters, while requiring minimal maintenance.

The building layout was developed by working closely with the end users to determine the appropriate configuration of building spaces to maximize the efficiency of the operations, and to respond to the unique missions of the 150th Armored Reconnaissance Squadron and the 156th Military Police (LNO) Detachment. This was accomplished through clear separation of public and private areas within the facility, unique office configurations related to training requirements, and the addition of state-funded additional spaces.

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





# GLEN JEAN ARMED FORCES RESERVE CENTER

LOCATION GLEN JEAN, WV	SIZE 110,000 SF	COMPLETION 2004	COST \$17M
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The Glen Jean Armed Forces Reserve 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, while also providing much-needed space for community functions.

The Glen Jean AFRC also employs a sloped natural-stone buffer to meet federal anti-terrorism and force protection guidelines. The project has also become an important community resource and served as a meeting location during the development of the nearby Summit Bechtel Family National Scout Reserve.





# VALLEY PARK COMMUNITY CENTER

LOCATION | SIZE | COMPLETION | COST  
HURRICANE, WV | 31,216 SF | 2018 | \$8M

The 31,216 SF Community Center building is the centerpiece of a multi-million dollar improvement to the existing Valley Park in Hurricane, WV.

The park's previous community building was torn down to make way for a larger, updated Community Center that includes 7,750 SF of conference space, a commercial kitchen, offices for the Putnam County Parks and Recreation Commission, and offices, locker-rooms, and concessions for the existing wave pool.

The exterior design plays off the existing Commons Building, which incorporates stone accents, wood siding, and multi-sloped roofing around a floor plan that emphasizes the internal components. The Community Center entrance is highlighted by a large, exposed-wood truss bearing on tall, battered stone columns. These wood beams are featured at all entrances and carry into the meeting room prefunction to provide a fully-exposed, open wood structure. The majority of the building perimeter is brick veneer with the taller meeting room and entrance separated by cast-stone banding. The more detailed façades for the prefunction space and office blocks feature punched windows set in horizontal wood siding with a stone veneer wainscot, which gives the building a lodge-like feel. Sloped, standing seam metal roofing highlights the more visible portions of the building, while flat roofs cover the support spaces.





# WV STATE OFFICE BUILDINGS 5, 6, & 7

LOCATION  
CHARLESTON, WV

AWARDS  
2011 AIA WV MERIT AWARD

Nearly 50 years ago, ZMM (as Zando, Martin & Milstead) designed the original West Virginia State Office Buildings 5, 6, and 7.

Over the past decade, ZMM has assisted the State of West Virginia General Services Division with various improvements to the buildings, which commenced with an assessment that examined the condition of the buildings, as well as cost and phasing options for various upgrades. Improvements undertaken have ranged from substantial renovations to maintenance and repair projects. ZMM provided design services for the renovation of the 10th Floor of Building 5 for the Office of Technology, which focused on demonstrating the potential for renovating the floors in a more contemporary manner that moves the open office spaces to the perimeter, and pulls the offices adjacent to the building core. The project was delivered considerably under the anticipated budget.

The next phase of renovation involved abatement, demolition, new construction, and updated life safety systems. ZMM assisted with roof replacement for all three buildings, utilizing white EPDM roofing material, with consideration being given to sustainability. ZMM also assisted with expanding the electrical courtyard, improving the electrical service entry, replacing windows and entry doors, providing design services to replace the caulk between the exterior limestone and precast panels, and a valve replacement project to isolate mechanical risers.





## WEST VIRGINIA HOUSING DEVELOPMENT FUND

LOCATION	SIZE	COMPLETION	COST	AWARDS
CHARLESTON, WV	36,000 SF	2011	\$8.5M	2012 AIA WV HONOR AWARD

Offices for the West Virginia Housing Development Fund (WVHDF) were developed in the Kanawha City neighborhood of Charleston on a former Brownfield site.

The building sits on two acres and houses offices for over 100 employees, an educational training room, exercise room, executive library, and boardroom. The result is a unique, contemporary design that differentiates itself from other office buildings. Glass and insulated metal panels surround three sides of the building in a subtle checkerboard pattern. Red brick grounds the educational side in tradition, yet the alternating pattern adds another subtle, modern touch. The signature entry is defined by the two-story, white-brick wall projecting from the primary building envelope. The interior color scheme has punches of color that enhance the employee break room and executive office area.

A primary goal was to create light, bright, and easily accessible spaces. Private offices are located in the center spine, while glass office fronts and doors offer in daylight from exterior glazing. A high ceiling in the open office area maximizes daylight and the interior lighting has solar sensors and automatically dims according to natural light levels. The result of these details is an energy-efficient building that has increased staff well being, a clean, sophisticated design, and is a modern addition to the city streetscape.





# INTUIT PROSPERITY HUB

LOCATION BLUEFIELD, WV	SIZE 44,000 SF	COMPLETION 2020	COST \$4.4M
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ZMM worked in collaboration with CBRE, Gensler, the City of Bluefield, and Pray Construction to assist Intuit with the development of its next “Prosperity Hub.”

The former First National Bank building was constructed in 1970. The two-story modern building with marble, aluminum, and glass veneer is comprised of two connecting structures and a parking garage. CBRE was responsible for project management, while Gensler was responsible for programming and the tenant fit-up schematic design. ZMM was responsible for core and shell architectural and engineering work, as well as the fit-up portion from design development through completion. ZMM’s effort commenced with a facilities assessment to assist with the scope and budget, which determined the condition of the major building systems, and identified immediate and long-term enhancements required.

The intent was to convert the facility into an office space/customer support center with administrative suites, training rooms, and a break space. The upper levels have an open plan for workstations. One of the challenges involved converting this building with varying floor heights into an accessible office, which was met through the use of creative space planning, refurbished elevators, and raised access flooring. The final design provides a contemporary, safe, and healthy work environment that highlights the branding and contemporary finishes desired by Intuit.







# WEST VIRGINIA LOTTERY HEADQUARTERS

LOCATION CHARLESTON, WV	SIZE 42,082 SF	COMPLETION 2016	COST \$7.5M
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This project is an extensive renovation of an existing 13-story office building and 7-story parking garage in downtown Charleston, WV.

Renovations within the office building consist of three existing tenant floors, relocation of the fitness center, and replacement of the roof. The WV Division of Insurance is being relocated to floors 7, 8, and 9. Off the renovated elevator lobbies on each floor is a reception area which leads to an interior space of enclosed offices. A tenant space on the sixth floor is being renovated into the new fitness center. Construction on the roof includes the replacement of insulation and membrane and the installation of new roof davits and stainless-steel guardrail.

The parking deck will be undergoing renovation, including structural repairs, electrical upgrades, and an addition to the storage warehouse. It was determined that bearing pads need to be replaced under the framing members, concrete structure and topping slabs needed repair, and spandrel panels required epoxy injection to repair cracking. Driving surfaces are receiving new waterproofing, sealant joint replacement, and restriping. The circulation connector required partial reconstruction of the steel deck and floor slabs. Electrical improvements will consist of new LED lighting and additional pole fixtures on the top level. The storage warehouse is being increased by 1,800 SF and will consist of masonry walls clad in EIFS with a sloped steel-framed roof and single-ply membrane system.





# GIRL SCOUTS OF BLACK DIAMOND COUNCIL

LOCATION | SIZE | COMPLETION | COST | AWARDS  
CHARLESTON, WV | 24,650 SF | 2013 | \$5M | 2014 AIA WV MERIT AWARD

## The Girl Scouts of Black Diamond Council Volunteer Resource Center and Girl Zone/ Urban Camp is located in Charleston, WV.

The facility includes administrative offices, community/meeting gathering spaces, as well as a small hotel (Urban Camp) for Girl Scouts visiting Charleston. The Girl Scouts undertook the effort to transform the facility, creating an architectural style that would appeal to girls and young women, while utilizing colors and materials that would not become dated.

The main building brings all of the operations together under one roof. This building includes a volunteer meeting room, employee office space, flexible conference spaces, and a retail shop. The Girl Zone/Urban Camp reflects a more residential/outdoor tone with the use of a wood veneer, while the retail store has floor-to-ceiling storefront.

The adjacent Girl Zone/Urban Camp conveys the feeling of a hotel or hostel and offers a place that Girl Scouts can stay during a visit to Charleston. The "hotel rooms" utilize a dormitory arrangement, while the finishes and furnishings are more like a youth hostel than a camp. The rear of the Girl Zone/Urban Camp reflects a more traditional camp environment, and includes an outdoor dining area and a fire pit. With the mixed-use functions of retail, office, and residential, this unique project is a vibrant addition to the emergent west side community.





# NEW RIVER PRIMARY / OAK HILL MIDDLE SCHOOL

LOCATION	SIZE	COMPLETION	COST
OAK HILL, WV	158,041 SF	2019	\$36M

These two schools were designed as separate schools sharing the same site and are connected by a mechanical wing. This building called for a challenging design concept.

The schools each had their own unique design theme, but were delicately connected in small aspects of color or architectural techniques, allowing the interiors to flow seamlessly. The new school consists of a separate wing for each grade level. Common spaces such as the media center, cafeteria, music, art, and the gymnasium are located along a central corridor easily accessible by all students.

The general feel of the common spaces is one of open exposed high ceilings that showcase the materials. The overall feel of polished concrete, exposed structure, stacked wood walls and bright colors lends itself to a contemporary design and a creative space for students. The use of bright colors and smaller childlike graphics throughout the common spaces gives the building a whimsical atmosphere for the students. The school is also designed with energy efficiency in mind, with exterior wall construction of ICF walls and additional roof insulation. The exterior is comprised of a two-toned brick façade with multicolored curved metal canopies that surround the main entrance to the school. A large glass entrance denotes the main entrance to the building. The site includes a separate parent loop and bus loop on the front of the building.





Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

State of West Virginia  
 Centralized Expression of Interest  
 Architect/Engr

<b>Proc Folder:</b> 966904			<b>Reason for Modification:</b>
<b>Doc Description:</b> A/E Services- Plum Orchard WMA New Headquarters			
<b>Proc Type:</b> Central Contract - Fixed Amt			
<b>Date Issued</b>	<b>Solicitation Closes</b>	<b>Solicitation No</b>	<b>Version</b>
2021-11-16	2021-12-15 13:30	CEOI 0310 DNR2200000006	1

**BID RECEIVING LOCATION**

BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**

**Vendor Customer Code:** 206059  
**Vendor Name:** ZMM, Inc. (dba ZMM Architects and Engineers)  
**Address:**  
**Street:** 222 Lee Street, West  
**City:** Charleston  
**State:** WV **Country:** USA **Zip:** 25302  
**Principal Contact:** Adam R. Krason  
**Vendor Contact Phone:** 304-342-0159 **Extension:** 234

**FOR INFORMATION CONTACT THE BUYER**  
 James H Adkins  
 (304) 558-3397  
 jamie.h.adkins@wv.gov

**Vendor Signature X**  **FEIN#** 55-0676608 **DATE** 12/14/2021

ADDENDUM ACKNOWLEDGEMENT FORM  
SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

*(Check the box next to each addendum received)*

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2            | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4            | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5            | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

ZMM, Inc. (dba ZMM Architects and Engineers)

Company



Authorized Signature

December 14, 2021

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

STATE OF WEST VIRGINIA

Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

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

DEFINITIONS:

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

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: ZMM, Inc. (dba ZMM Architects and Engineers)

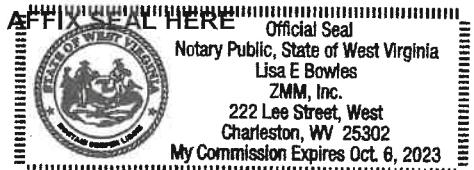
Authorized Signature: [Handwritten Signature] Date: 12/14/2021

State of West Virginia

County of Kanawha, to-wit: 14


Taken, subscribed, and sworn to before me this December day of 2021.

My Commission expires 10/6, 2023.



NOTARY PUBLIC [Handwritten Signature]

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

 PRINCIPAL  
(Name, Title)  
Adam R. Krason, AIA, LEED AP, Principal  

---

(Printed Name and Title)  
222 Lee Street, W., Charleston, WV 25302  

---

(Address)  
304-342-0159      304-345-8144  

---

(Phone Number) / (Fax Number)  
ark@zmm.com  

---

(email address)

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.

ZMM, Inc. (dba ZMM Architects and Engineers)  
(Company)

 ADAM R. KRASON, PRINCIPAL  
(Authorized Signature) (Representative Name, Title)

Adam R. Krason, AIA, LEED AP, Principal  
(Printed Name and Title of Authorized Representative)

December 14, 2021  
(Date)  

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304-342-0159      304-345-8144  

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(Phone Number) (Fax Number)

# Adam R. Krason, AIA, LEED AP, ALEP



**Role**  
Principal

## Professional Registrations

Registered Architect (WV, OH, KY, VA, MD, NJ)  
LEED Accredited Professional  
Accredited Learning Environment Professional  
NCARB (55,984)  
Construction Specifications Institute (CSI)  
Construction Documents Technician (CDT)

Mr. Krason has served in the capacity of Architect and Project Manager for a variety of projects at ZMM. This experience includes Military, Educational (K-12 and Higher Education), Office, Justice (Courthouses, Correctional, Justice Centers), and Multi-Unit Residential projects. Mr. Krason's responsibilities include programming, design, documentation, coordination of the architectural and engineering team, as well as construction administration. Mr. Krason began his career in 1998, working on a variety of educational, commercial office, and correctional projects throughout Ohio, West Virginia, and North Carolina.

Mr. Krason has been an advocate of sustainable design in West Virginia, participating in a variety of sustainable design seminars throughout the State, and serving on the West Virginia School Building Authority Green Schools Sub-Committee. Recently, Mr. Krason helped coordinate the "Making the Business Case for Sustainability" conference at the University of Charleston that included speakers from Armstrong Industries, American Electric Power, CB Richard Ellis, and Interface Raise. Mr. Krason also assisted Habitat for Humanity Kanawha and Putnam County develop a commercial recycling program to fill a void in the sustainable design infrastructure in West Virginia. Mr. Krason has noted that, "I became a LEED Accredited Professional because I believe that good design has value, and the ability to impact our daily lives. Sustainable design showcases the value of design through demonstrated improvements in the performance of the students and employees who occupy our buildings." In addition to his design and project management responsibilities, Mr. Krason serves on the Board of Directors and is responsible for business development at ZMM.

## Project Experience

### Claudia L. Workman Fish and Wildlife Education Center Alum Creek, WV

Mr. Krason was the principal on the new Claudia L. Workman Fish and Wildlife Education Center, the 7,000 SF

## Education

Bachelor of Architecture, The Catholic University of America, 1998

Bachelor of Civil Engineering, The Catholic University of America, 1997

## Employment History

2007 - Present, Principal, ZMM  
2007 - Present, Board of Directors, ZMM  
2003 - Present, Architect, Project Manager, ZMM  
1998 - 2003, Architect, Project Manager, Charleston Area Architectural Firm

## Civic Affiliations

- WV American Institute of Architects, President
- Habitat for Humanity Kanawha & Putnam County, Board of Directors 2011 - 2014
- WV Qualification Based Selections Council, President, 2012/2013
- Leadership WV 2010 - 2012
- Charleston Rotary
- West Side Main Street, Board of Directors 2008 - 2014
- City of Charleston Land Trust 2008 - 2014



building is nestled in the beautiful West Virginia landscape. The building layout concentrates on both the visitor and user experience while creating a dynamic space to celebrate some of West Virginia's greatest natural treasures. One of the key concepts of the building is to represent our wild and wonderful state by incorporating natural materials such as stone, a variety of woods, and other natural finishes. The building is set to open this year.

**Beech Fork State Park, Lavalette, WV (unbuilt)**

Mr. Krason was the principal for new lodge and conference center at Beech Fork State Park. The facility will include guestrooms and other guest-only facilities in one area and public functions such as the restaurant, lounge, gift shop, and conference rooms in another area. All guestrooms offer a lake view, a 2-story atrium opens up each end of the lobby with curtain-wall glazing, and an indoor pool provides a transparent connection to the outdoors. A high-performance envelope was designed to eliminate thermal bridging and the potential for condensation.

**Charleston Coliseum & Convention Center, Charleston, WV**

Mr. Krason served as principal-in-charge of the expansion and renovation to the Charleston Civic Center. The \$75M, 283,000 SF design-build project is being completed as a collaboration with tvsdesign and BBL Carlton. Mr. Krason was responsible for the overall management of the design team, coordination with the client, and also has input critical project management decisions. The design commenced in the spring of 2015, and construction was complete in 2018.

**Joint Interagency Training & Education Center (WVARNG), Kingwood, WV** Mr. Krason was responsible for the preliminary programming, and participated in the schematic design of the 180,000 SF addition to the Regional Training Institute at Camp Dawson. Mr. Krason was also responsible for managing the production effort for the billeting (hotel) expansion, which increased the total billeting capacity at the JITEC to 600 rooms. This project received LEED Gold Certification.

**Ravenswood Middle School, Ravenswood, WV**

Mr. Krason was the principal on the new addition to the middle school that included 40,000 SF to accommodate 360 students in grades 6-8. In addition to the new middle school, upgrades were also made to the existing high school. These improvements include the replacement of the HVAC system, ceiling, and lighting replacement, as well as minor interior and finish upgrades. The \$14M project was completed and occupied in time for the 2019-2020 academic year.

**Jackson County AFRC (WVARNG), Millwood, WV**

Mr. Krason was the principal on the new facility that houses both the West Virginia Army National Guard (WVARNG) and the United States Army Reserves (USAR). The facility also includes an expanded Drill Hall that can serve as a convention and meeting space, which is being funded by the Jackson County Commission, additional federal appropriations, and the State of West Virginia National Guard. A transverse wing on the left houses all functions that have the potential for public use, such as the Drill Hall and the Educational component, while all primary military spaces developed along a similar perpendicular wing on the right. This allows for separate entries to be developed for public functions, while the remainder of the facility can be secured.

**Morgantown Readiness Center (WVARNG), Morgantown, WV**

Mr. Krason was the project architect on the new Morgantown Readiness Center. This facility is a unique due to its location on an abandoned airport runway at the Morgantown Municipal Airport. The 54,000 SF Readiness Center occupies a 35-acre tract at the airport. This center supports traditional military functions including the 1-201<sup>st</sup> Field Artillery. A significant portion of the Morgantown Readiness Center supports the 249<sup>th</sup> Army Band. The Readiness Center contains a performance hall, pre-function spaces, as well as a variety of training and rehearsal areas.

**Participated on the team that won the following awards and acknowledgements:**

- 2020 WV AIA Merit Award Mountain Valley Elementary School, Green Valley, WV
- 2019 WV AIA Honor Award Charleston Coliseum & Convention Center, Charleston, WV
- 2018 WV AIA Citation Award Charleston EDGE, Charleston, WV
- 2017 WV AIA Merit Award Logan-Mingo Readiness Center, Holden, WV
- 2016 WV AIA Merit Award Christ Church United Methodist, Charleston, WV



**Role**  
QA/QC

### **Professional Registrations**

Registered Architect (WV, OH)  
Recognized Educational Facility Planner (REFP)

Mr. Ferguson has served in the capacity of Architect, Project Manager, and Principal in Charge for a variety of projects at ZMM. This experience includes Educational (PK-12, Vocational and Higher Education), Retail, Corporate Office, Industrial, Military, Medical Office Facilities, General Healthcare Hospital and Psychiatric Hospital Projects. Mr. Ferguson's responsibilities include programming, design, documentation, architectural/engineering coordination and construction administration.

Mr. Ferguson is a Recognized Educational Facility Professional (REFP) and has been involved in planning, designing and the construction of over 200 educational facilities in West Virginia. As the architect for the first "green" school building in West Virginia Mr. Ferguson has been an advocate for sustainable design and was involved starting the first US Green Building Chapter in West Virginia.

Mr. Ferguson has also participated in developing West Virginia Department of Education's Policy 6200 *Handbook on Planning School Facilities* and the West Virginia School Building Authority's *Handbook of Quality and Performance Standards*.

### **Project Experience Highlights**

#### **Fayette County Schools**

Oak Hill High School – Addition/Renovation  
Valley PK-8 – Conversion from a High School  
Midland Trail – Addition/Renovation  
Fayetteville PK-8 – Addition/Renovation

#### **New River Primary/Oak Hill Middle School, Oak Hill, WV**

These schools were designed as separate schools sharing the same site and are connected by a mechanical wing. This building called for a challenging design concept. The schools each had their own unique design theme, but were delicately connected in small aspects of color or architectural techniques, allowing the interiors to flow seamlessly. The PK-2 is community driven in the design. House facades and custom glass adorn the halls drawing the eye to the exposed structure above. The ceilings reflect the sky and are divided by clouds.

### **Education**

Bachelor of Science; Industrial Technology/Architectural Design;  
West Virginia State University, 1979

### **Employment History**

2007 - Present, Vice President, Secretary/Treasurer, ZMM  
2002 - 2007, Vice President, ZMM  
2001 - Present, Board of Directors, ZMM  
1996 - Present, Architect, Project Manager, ZMM  
1984 -1996, Designer, ZMM

### **Civic Affiliations**

- A4LE Southeast Region Board of Directors – WV State Governor
- West Virginia Chapter, American Institute of Architects, Past President
- West Virginia Chapter, American Institute of Architects, Board Director
- American Institute of Architects, Member
- Member, Association for Learning Environments(A4LE)
- Recognized Educational Facility Planner (REFP) by the A4LE
- Professional Member, US Green Building Council

Collins Middle also was design with the environment in mind. Using biophilic design, wood planked feature walls are found in the entrance corridor and expand to the open structure above.

#### **Bluefield Primary School, Bluefield, WV**

Mr. Ferguson was the principal-in-charge for the new Bluefield Primary. The new school is the result of a consolidation of two local schools in the Bluefield area. The county wanted to bring in architectural elements from both of the former schools. This was accomplished by oval vaulted ceilings and circular windows throughout the building. The school will house Pre-k-2<sup>nd</sup> grade students. Keeping the Bluefield Beavers in mind, the school colors are found throughout the design with the addition of complimentary colors to creates a colorful learning environment for the students. A large dry erase mural spans the length of the media center allowing students to express their imaginations.

#### **Mountain Valley Elementary School, Green Valley, WV**

Mountain Valley opened its doors in the fall of 2019. The concept for the school was simple – fundamentals. Primary colors and geometric shapes create a fun and easy way to keep the students engaged and ready to learn, while sticking to the basics. A large wall in the media center allows for quiet areas to study or play with built in casework depicting the word “READ” allowing for shelving and seating within the oversized letters. The scheme continues throughout the school seen in the polished concrete floor pattern and 3D shapes protruding above the main entrance for a guaranteed jaw dropping design.

#### **Nicholas County Schools**

Mr. Ferguson is currently leading the recovery effort for the of \$160 million dollar school system. On June 23, 2016 a flood destroyed three schools. These facilities were left unsafe and un-inhabitable. ZMM has worked with the County Board of education, FEMA, and the State of WV to design and program temporary schools and develop a long range plan to rebuild. ZMM is working on the programming and design for the two new facilities. A community school which will include spaces for the community to access, and a comprehensive High School/Middle School which will include a Career Technical Center. Mr. Ferguson has conducted community Meetings, established goals and priorities, created overall budgets and a project scope all stakeholders will support.

**Explorer Academy, Huntington, WV** Mr. Ferguson was the project manager/architect on the this new Expeditionary Learning Incubator School. The new Academy is the consolidation of Peyton Elementary and Geneva Kent Elementary in the east end of Huntington. The schools were combined and housed in the former Beverly Hills Middle School facility that will be remodeled to fit the mold of the Expeditionary Learning model. The curriculum for the program is very hands on, and is a real-world way of learning. Students will be working a lot with community partners, people who are experts in their fields. The students learn by conducting learning expeditions eather than sitting in a classom with one subject being taught as a time.

**Huntington East Middle School, Huntington, WV** Mr. Ferguson was responsible for the programming, design, and project management for the new 800 student, 94,000 SF facility. This is projected to be the first LEED Silver Middle School in West Virginia and encompasses the latest in technology and distance learning within the classroom. The building will be used as a teaching tool along with large interactive monitors throughout the building. Students will be able to learn how the building operates through hands on learning and monitoring the building systems.

**Southside Elementary and Huntington Middle School, Huntington, WV** Mr. Ferguson led the programming and design effort on this 156,000 SF facility. This project encompasses all phases of construction; demolition, major renovation and new construction. The original historic 26,000 SF three story school building was preserved and the remaining less than adequate facility was strategically removed to accommodate the new addition. The existing facility was completely renovated and brought up to new construction standards to blend with the new addition. The project consisted of two distinct school facilities existing on the same piece of property. The new construction blends seamlessly with the older historic structure.

#### **Participated on the team that won the following awards and acknowledgements:**

2020 WV AIA Merit Award Mountain Valley Elementary School, Green Valley, WV

## Michael M. Phillips, AIA, LEED AP



### Role

Project Manager

### Professional Registrations

Registered Architect (WV)  
LEED AP Accredited Professional  
NCARB Certified

Mr. Phillips has served in the capacity of Architect, Project Manager and Senior Project Architect on a variety of project types throughout his career. This experience includes Healthcare, Educational (PK-12), Higher Educational, Corporate Office, Retail, Military, Hospitality and Correctional. Mr. Phillips responsibilities include Programming, Design, Documentation, and Construction Administration.

Mr. Phillips began his career in West Virginia and continued to work throughout his career on a broad range of project in Pennsylvania, Virginia, Florida, and Tennessee.

### Relevant Project Experience

#### Appalachian Regional Healthcare

Beckley, WV multiple projects – Primary Pharmacy renovation and expansion to meet new USP 797 and 800 requirements, new Chemotherapy Infusion suite, ICU nurse station modernization and replacement, HVAC replacement, psychiatric emergency room bays for the existing hospital, psychiatric emergency room addition and the preliminary design of the medical mall doctors suite.

Summers County, Hinton, WV - Pharmacy Design Options  
Whitesburg, KY multiple projects - Central Sterile renovation, MRI replacement coordination, and a laboratory HVAC modernization.

#### Mountain State Oral Surgeons, Charleston, WV

New 2-Story 9,000 SF Oral Surgery Center  
Renovation of a 5,000 SF Medical Office

- CAMC Teays Valley Hospital, Teays Valley, WV
- CAMC Hurricane Urology Clinic, Hurricane, WV
- Jackson General Hospital, Ripley, WV
- Rainelle Medical Center, Rainelle, WV
- WV Department of Agriculture - Lab, Charleston, WV

### Education

Bachelor of Architecture, University of Tennessee School of Architecture

### Employment History

2016 - Present, Project Architect, ZMM  
2011 - 2016, Senior Architect, Charleston Architecture Firm  
2001 - 2011, Senior Architect, Charleston Architecture Firm

### Civic Affiliations

- West Virginia Chapter, American Institute of Architects, Member

**Previous Work Experience**

**Boone Memorial Hospital, Boone, WV**

75,000 SF Critical Access Hospital with 25 private rooms, Emergency Room, E.D., 2 Operating Rooms, MRI, CT, Xray, Imaging, Pharmacy, Physical Therapy, Cardiac Rehab.

**St. Mary's Medical Center** New Entrances Canopies, Hybrid O.R.'s, School of Physical Therapy, New Central Boiler Plant Building, Endoscopy Expansion, Outpatient Therapy

**Kings Daughter's Medical Center**

New Cath Center, Pharmacy Upgrades and a new Remote Kiosk, Elevator Addition, Ambulance Access Renovations, Cystology Renovations, Laboratory Facilities Upgrades.

**St. Agnes School, Charleston, WV**

Exterior building envelope modernization upgrade. Project cost \$1.1M

**Sacred Heart Early Learning Center, Charleston, WV**

Child Care and Multi-School Gymnasium facility Project cost \$1.8M

**Yeager Airport, Charleston, WV**

Gate evaluation and optimization for new flights. Additional renovations included: the terminal, new pedestrian bridge, elevator, as well as the lobby that connected the garage to the terminals. The project cost was \$2.25M.

**Buckhannon Readiness Center, Buckhannon, WV**

Design Charrette and a comprehensive feasibility study for 4 buildings and the campus. The project cost was \$53M est.

**Lewis County Courthouse, Weston, WV**

Performed a feasibility and space planning study for the Judicial Annex Addition. Project Cost was \$7M est.

# Robert Doeffinger, PE



**Role**  
Engineering Principal

**Professional Registrations**  
Professional Engineer (WV, VA, PA, OH, TN, KY, NY, NH, ME, NC, SC, FL, NJ, GA)

As ZMM's Principal Engineer, Mr. Doeffinger is in charge of the engineering disciplines, 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.

After graduate school in Architectural Engineering, Mr. Doeffinger joined ZMM. He has over 45 years design experience in mechanical and electrical systems for buildings. He has a broad range of engineering experience in education, industrial and manufacturing facilities, large retail, correctional and jails, office buildings, and military facilities.

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 analysis 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.

**Selective Project Experience**  
**Charleston Coliseum & Convention Center, Charleston, WV**  
Mr. Doeffinger was the mechanical project engineer on the expansion and renovation to the Charleston Civic Center project. The \$100M, 300,000 SF design-build project was a collaboration with tvsdesign and BBL Carlton. The design commenced in the spring of 2015, and construction was completed in October 2018. The mechanical design is expected to reduce the energy requirements defined by ASHRAE 90.1-2013 by an estimated 25% and extensive water savings will be shown. The project includes a new chilled and hot water central plant with extensive replacement and upgrades to the facilities existing mechanical systems. Multiple phases of construction will allow the Civic Center to remain operational throughout the construction progress.

**Education**  
Master of Science Architectural Engineering, The Pennsylvania State University, 1976  
Thesis: Air Change Measurements using a Tracer Gas Technique

Bachelor of Science Mechanical Engineering, West Virginia University, 1973

**Employment History**  
2005 - Present, President, ZMM  
1983 - 2005, Vice President and Engineering Principal, ZMM  
1976 - 1983, Mechanical Engineer

- Civic Affiliations**
- 2019 Marshall University Honorary Alumni Award of Distinction College of Engineering
  - 2021 Industrial and Professional Advisory Council – College of Engineering at The Pennsylvania State University
  - ASHRAE – Member of the Technical Committee Load Calculations Data and Procedures for 25 years, serving as chairman. Presently Chairman of the Research Subcommittee
  - Advisory Board for the Department of Electrical Engineering Technology, Bridgmont Community and Technical College
  - City of Pt. Pleasant, WV – 2<sup>nd</sup> Ward Councilman for 20 years

**State Office Buildings #5, 10<sup>th</sup> Floor Charleston, WV** Mr. Doeffinger was the Project Engineer for this renovation project. The renovation of the tenth floor of State Office Building #5 on the State of West Virginia Capitol Campus was recently completed for the Office of Technology. The renovation was designed to meet the United States Green Building Council's LEED for Commercial Interiors standard. The renovations also include a low profile cable management system which maximizes the flexibility of the space. To commence the project, ZMM conducted a detailed investigation of State Office Buildings 5, 6, & 7, which included recommendations for improvement of the facilities. The renovation of the 10<sup>th</sup> floor of Building #5 was the first major interior renovation project that responded to the recommendations.

**West Virginia Capitol Complex - Buildings #5, 6, & 7, Charleston, WV** Mr. Doeffinger was the Project Engineer for the in-depth analysis of Buildings #5, 6, & 7 at the State Capitol Campus. The study included 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 included a study related to potential hazardous materials in the facility.

**West Virginia Regional Jails**, Mr. Doeffinger was the Project Engineer on ten West Virginia Regional Jails. In 2009 he was responsible for the HVAC renovation on four regional jails, including the replacement of rooftop HVAC units and Building Automation Systems.

**West Virginia Army National Guard, Joint Interagency Training & Education Center, Camp Dawson, WV** Mr. Doeffinger was responsible for the mechanical engineering design of the 600 room billeting expansion to the Regional Training Institute at Camp Dawson. The project is served by a 4 - pipe hot and chilled water system with an energy recovery ventilation system. This project received LEED Gold Certification.

**West Virginia Research, Education, and Technology – Building 704, South Charleston WV** Mr. Doeffinger is the engineering principal-in-charge of preparing a life safety analysis of the building as well as design services to improve the exterior façade of Building 704 at the WV Research, Education, and Technology Park. Building 704 had previously been utilized as a campus maintenance facility by Union Carbide and DOW Chemical. Bridgemont began utilizing the facilities for instruction in the Spring of 2011.

**West Virginia Regional Technology Park (WVRTP) - Building 740, South Charleston WV** Mr. Doeffinger is the engineering principal-in-charge of the new Steam Plant for Building 740. This project involves designing and constructing the Interim Steam Heating System throughout Building 740.

**Bridgemont (BridgeValley) Community and Technical College Davis Hall Renovation, Montgomery, WV** Mr. Doeffinger led an architectural and engineering investigation into the condition of Davis Hall to help Bridgemont Community and Technical College to develop a scope for the current renovation project, as well as a plan to undertake deferred maintenance at the facility. The project scope included remedying several life safety deficiencies, as well as improvements to the building envelope.

**NGK Oxygen Sensor and Spark Plug Plant, Sissonville, WV** Mr. Doeffinger was in charge of engineering design of the 250,000 SF NGK facility. The most recent 130,000 SF expansion moved NGK's spark plug production for the west coast to West Virginia. For both the oxygen sensor plant and spark plug plant Mr. Doeffinger designed a cycle water system for the manufacturing equipment.

**The Plaza at King of Prussia, Philadelphia, PA** One of the largest retail centers in the USA. Mr. Doeffinger has performed engineering services for the past 20 years. The project consists of an 8,000 - ton chilled water plant and 1,500,000 cfm variable volume system for tenants and constant volume air system for common areas and an engineered smoke control system. The most recent project is a 100,000 square foot expansion of tenant spaces, a renovation of the food court, and a 1,250-ton chiller addition to the central chilled water plant.

**Role**

Senior Mechanical Engineer

**Professional Registrations**

Professional Engineer (WV, VA, IN)  
LEED Accredited Professional

Mr. Pruett is responsible for overseeing the design of the HVAC systems, ensuring that the HVAC systems not only meet the program requirements, but meet the long-term needs of the owner. He performs heating and cooling load calculations and recommends the type of systems to be incorporated into the building. He coordinates with the other disciplines in order to integrate the HVAC systems into the building. Mr. Pruett has participated on several LEED registered projects; one of his key contributions to these projects is conducting energy analyses and recommending energy use reduction alternatives.

Mr. Pruett began his career in engineering with a manufacturing company in 1994. In 1998, he made a career change and joined an engineering consulting firm as an HVAC design engineer. He has a broad range of experience in HVAC systems design, including K-12 schools, higher education facilities, office buildings, libraries, hotels, restaurants, a convention center and several natatoriums. Having served in the Marines for 14 years, Mr. Pruett also led a design team for a "virtual memorial" for the birthplace of the U.S. Marine Corps.

**Project Experience**

**Huntington East Middle School, Huntington, WV** Mr. Pruett was responsible for the HVAC systems design. This school features numerous sustainable features, including an air monitoring system for verifiable indoor air quality, variable refrigerant flow (VRF) systems for portions of the school that will operate year-round, preheating of the domestic hot water with the heating hot water return. Mr. Pruett also conducted an extensive energy analysis of the building and all of its systems to maximize the effect of each component, resulting in a projected reduction in energy consumption of 32% compared to a baseline analysis.

**Cabell County Schools**

Barboursville Middle School - Additions and Renovations  
Huntington East Middle School  
Huntington High School - Controls system replacement for Explorer Academy  
Cabell County Bus Garage

**Education**

Bachelor of Science, Purdue University, West Lafayette, IN, 1993

**Employment History**

2021- Present, Board of Directors, ZMM  
2010 - Present, Project Engineer, ZMM  
2007 - 2009, Sr. Mechanical Engineer, IN  
2003 - 2007, Mechanical Engineer, IN  
1999-2003, Project Engineer, Fort Lauderdale, FL

**Civic Affiliations**

- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Member
- United States Marine Corps – 14 Years



Southside Elementary/Huntington Middle School  
Huntington High School – Cooling tower replacement  
Cabell Midland High School - Cooling tower replacement  
Martha Elementary School- Addition  
Salt Rock Elementary Renovations  
Cabell County Career & Technical Center – HVAC Replacement  
Huntington High School Wrestling Room Addition  
Milton PK - Additions and Renovations

#### **Fayette County Schools**

New River Primary / Oak Hill Middle School  
Valley High School - Gym addition  
Oak Hill High School – Renovations  
Fayetteville PK-8 - Renovations  
Midland Trail High School - Renovations  
Valley PK-8 - Renovations  
Meadow Bridge Elementary - Renovations  
Divide Elementary - Additions and Renovations

#### **Putnam County Schools**

Hurricane High School - Renovations  
Putnam Career & Technical Center – Welding Shop

**Wood County Justice Center, Parkersburg, WV** Mr. Pruett was responsible for the HVAC systems design for the LEED Silver project comprised of the judicial courts, Sheriff's department and holding cell area. The project utilizes high-efficiency custom air handling units, including an energy recovery unit for the holding cell area, which has helped reduce energy consumption on the project by 18% compared to a baseline analysis.

#### **Tucker County Courthouse Annex, Parsons, WV**

Mr. Pruett was the Mechanical Engineer for the Courthouse Annex renovation project and responsible for the HVAC systems. The Annex is a 4-story, 21,000 Square Foot building that is adjacent to the Tucker County Courthouse. The annex will house spaces for the Circuit Court, Circuit Clerk, Family Court, Magistrate Court, Prosecuting Attorney, County Commission, County Clerk, Community Corrections, and Probation Office.

WWARNG Camp Dawson Building  
WWARNG Camp Dawson Building 246  
WWARNG Camp Dawson Building 301  
WWARNG Camp Dawson Mail Facility  
WWARNG Marshall County Readiness (Design)  
WWARNG Camp Dawson Job Challenge Academy

#### **Project Experience with other firms**

##### **Southern Indiana Career and Technical Center (SICTC), Evansville, IN**

Mr. Pruett was responsible for the HVAC systems design for the 262,000 square foot facility. The project features a complex air system necessitated by the diversity of the educational programs featured in the facility: welding, auto shop, building trades, electronics, radio/TV communications, culinary arts, etc. The main mechanical room was also designed to be an educational space, utilizing color-coded piping, a corresponding color-coded equipment schematic and an accessible controls workstation to aid the students in learning about building systems.

# Carly Chapman



**Role**  
Interior Designer

Mrs. Chapman serves as the Interior Designer at ZMM. Mrs. Chapman takes pride in her work's originality and always strives to help the client's vision and intent come alive in the design process. Her experience at ZMM includes Education, Municipal, Residential, Healthcare, and Hospitality projects. In her past position she focused on both Corporate and Healthcare design. Mrs. Chapman's responsibilities include conducting design proposals and presentations, as well as producing design documents and specifications relating to all aspects of interior design.

Mrs. Chapman has served as the interior designer for a variety of projects. Projects range from renovations to new construction and is comprised of every industry. Her responsibilities include design concept, presentation, documentation, specification writing, and architectural drafting.

### Relevant Experience

#### **Pipestem Resort State Park Lodge, Pipestem, WV**

Mrs. Chapman is currently the interior designer on the renovations to 88 guestrooms on first floor, bathroom expansions on the 7<sup>th</sup> floor, renovations to the dining area with a bar addition, renovations to all conference rooms, finish selections and renovations in the lobby. ZMM will be replacing the ceilings and lightings in all public spaces and guestroom corridors in the main McKeever lodge building. Mountain creek lodge that sits below McKeever Lodge will receive a new roofing on the guestroom buildings and restroom will be renovated in the main tram building.

#### **Charleston Coliseum & Convention Center, Charleston, WV**

Mrs. Chapman assisted in the construction administration and interiors of the expansion and renovation to the Charleston Civic Center. The \$75M, 283,000 SF design-build project is being completed as a collaboration with tvsdesign and BBL Carlton. Construction was complete in October 2018.

#### **Valley Park Community Center, Hurricane, WV**

The new community center replaced an existing structure that was recently demolished earlier this year. The new building houses a commercial kitchen, administration wing, ballroom, and a locker room complex with administration quarters for the attached Wave Pool.

### **Education**

Bachelor of Interior Design, University of Charleston, 2012

### **Employment History**

2016 - Present, Interior Designer, ZMM

2012 - 2016, Project Manager/Interior Designer, Contemporary Galleries, Inc.

2010 - 2012, Interior Design Intern, ZMM

### **Bluefield Primary School, Bluefield, WV**

The new school is the result of a consolidation of two local schools in the Bluefield area. The county wanted to bring in architectural elements from both of the former schools. This was accomplished by oval vaulted ceilings and circular windows throughout the building. The school will house Pre-k-2<sup>nd</sup> grade students. Keeping the Bluefield Beavers in mind, the school colors are found throughout the design with the addition of complimentary colors to create a colorful learning environment for the students. No school can be designed without a little fun in mind... A large dry erase mural spans the length of the media center allowing students to express their imaginations.

### **Mountain Valley Elementary School, Green Valley, WV**

Mountain Valley opened its doors in the fall of 2019. The concept for the school was simple – fundamentals. Primary colors and geometric shapes create a fun and easy way to keep the students engaged and ready to learn, while sticking to the basics. A large wall in the media center allows for quiet areas to study or play with built in casework depicting the word “READ” allowing for shelving and seating within the oversized letters. The scheme continues throughout the school seen in the polished concrete floor pattern and 3D shapes protruding above the main entrance for a guaranteed jaw dropping design.

### **Ravenswood Middle School, Ravenswood, WV**

Ravenswood Middle School is an addition to Ravenswood Highschool. The project allows for both schools to share one cafeteria and improve the exterior of the existing high school with the new entrance of the middle school. The interiors were clean and pattern filled using the school colors, insuring an easy transition from one school to the other.

### **New River Primary/Oak Hill Middle School, Oak Hill, WV**

These schools were designed as separate schools sharing the same site and are connected by a mechanical wing. This building called for a challenging design concept. The schools each had their own unique design theme, but were delicately connected in small aspects of color or architectural techniques, allowing the interiors to flow seamlessly. The PK-2 is community driven in the design. House facades and custom glass adorn the halls drawing the eye to the exposed structure above. The ceilings reflect the sky and are divided by clouds. Collins Middle also was design with the environment in mind. Using biophilic design, wood planked feature walls are found in the entrance corridor and expand to the open structure above.

### **Williamstown Elementary School, Williamstown, WV**

When designing a new school built on tradition, the initial thought of school colors and clean lines comes to mind. This was not the case with the new Williamstown Elementary School. Using the school colors as our basis of design, the county was open to adding complimentary colors to entice the students for a bright and exciting learning environment. Colorful floor pattern adorns the corridors, using the tile for wayfinding and structure for students. In the media center you will find a custom designed tree, dripping in lights mimicking fireflies and a perfect campfire setting for storytelling. The tradition is kept alive with the pops of Maroon and Gold throughout the cafeteria and gym.

### **Charleston EDGE, Charleston, WV**

The Charleston Edge renovation focused on bringing life to an old existing structure in the heart of downtown Charleston. The concept of the design was to create contemporary living quarters for the young urbanites of the city, while also providing a communitive atmosphere by including a rooftop gathering space for locals to enjoy.

### **Healthcare Experience**

Williamson Health and Wellness, Williamson WV  
CAMC General Division (C Suite), Charleston, WV  
CAMC Memorial Hospital (6<sup>th</sup> Floor Critical Care Unit), Charleston, WV  
CAMC Hurricane Urology Clinic, Hurricane, WV  
Rainelle Medical Center, Rainelle, WV  
Valley Health, Wayne, WV  
Valley Health, Milton, WV  
Mountain State Oral Surgeons, Charleston, WV



## Role

Architectural Designer

Mr. Simms is responsible for providing technical support to architectural staff, project coordination and production of drawings from proposal plans to construction documents using 3D modeling software.

Mr. Simms has experience in various types of construction techniques. Billy has served clients in various areas including Education, Residential, Medical, Commercial Offices, Religious and Civic Institutions.

## Project Experience

### **Coonskin Maintenance Facility, Charleston, WV**

The wood framed maintenance facility is under-going a renovation. The structure will remain intact with a new exterior shell being installed including a new roof. Updated interior finishes and new doors and hardware will also be included. A new addition to the metal maintenance building is also included in the package. It will be a metal building as well and will provide additional square footage for equipment storage and maintenance.

- WVDNR Forks of Coal Wildlife Center, Alum Creek, WV
- WVDNR District 5 Headquarters, Alum Creek, WV
- Valley Park Community Center, Hurricane, WV
- Toyota Expansion Annex, Buffalo, WV
- Goodwill Industries, Teays valley, WV
- Ripley JCDA Control Building, Ripley, WV
- Collins Middle School, Oak Hill, WV
- New River Primary School, Oak Hill, WV
- St. Anthony's Catholic Church (Addition), Boomer, WV
- Wayne County BOE, Tolsia High School, Building 400 Renovations, Fort Gay, WV
- Valley Health Medical Facility, Wayne County, WV
- Mason County BOE, Board Office Renovations, Pt. Pleasant, WV

## Education

Bachelor of Arts, Board of Regents,  
West Virginia State University, 1993

## Employment History

2015 - Present, Architectural Designer,  
ZMM

2005 - 2015, McKinley Associates

2003 - 2005, Proactive Architecture

## Civic Affiliations

- American Institute of Architects,  
Associate, Member

**Role**

Electrical Engineer

**Professional Registrations**

Professional Engineer (WV, MI, VA, TX, MN)  
ISA Certified Automation Profession (CPA)

Mr. Gunnoe has over 12 years of experience in power generation, material handling, and petrochemical process control. His technical expertise is in industrial electrical design with particular focus on industrial controls, automation, and instrumentation. He has been involved in every aspect of project completion from pre-planning, frontend design, detailed design, bidding, construction, and inspection all the way to final programming, system tuning, troubleshooting, commissioning, and long-term support.

Mr. Gunnoe now serves as an Electrical Engineer with ZMM and is responsible for all aspects of the electrical design process including interior and exterior lighting, power distribution, lightning protection, network system design, security systems, safety systems and fire alarms, low voltage control and automation systems, and equipment specifications. He also performs electrical inspections and assessments during construction and can consult and participate in troubleshooting efforts to remedy existing electrical issues.

**Project Experience**

- WV School of Osteopathic Medicine – New Testing Center Expansion, Lewisburg, WV
- WV School of Osteopathic Medicine – Community Health Center, Lewisburg, WV
- Williamson Health and Wellness Clinic, Williamson, WV
- Kanawha County Schools – The New Clendenin Elementary School, Clendenin, WV
- The Keith-Albee Theater Electrical and Life-Safety Upgrades
- Roane-Jackson Technical Center Plumbing and Electrical Renovations

**Education**

Bachelor of Science in Electrical Engineering, West Virginia University Institute of Technology, 2009

**Employment History**

2021 - Present, Electrical Engineer, ZMM  
2014 – 2021, Control Systems Engineer, CDI Corporation, Charleston, WV  
2012 – 2014, Control Automation Engineer, Nitro, WV  
2010 – 2012, Department of Defense, Dalgren, VA  
2008 – 2010, American Electric Power, Brilliant, OH

# Michael J. White, PE



## Role

Structural Engineer

## Professional Registrations

Professional Engineer (WV, KY, IN, TN, OH, SC)

Mr. White has more than 10 years of Civil/Structural design and engineering experience. Project experience includes new construction and renovation work involving the design and analysis of reinforced concrete, wood, structural steel, masonry and cold formed steel.

## Project Experience

New River Primary, Oak Hill, WV  
Oak Hill Middle School, Oak Hill, WV  
Bluefield Primary School, Bluefield, WV  
Williamstown Elementary School, Williamstown, WV  
Wood County Technical Center, Parkersburg, WV  
Milton PK School, Milton, WV  
Midland Trail High School, Hico, WV  
CAMC Teays Clinic, Teays Valley, WV  
Appalachian Regional Hospitals – DA Tank, Beckley, WV  
Appalachian Regional Hospitals Pharmacy, Beckley, WV  
Rainelle Medical Center, Rainelle, WV  
Valley Health, Milton, WV  
Valley Health, Huntington, WV  
Mountain State Oral and Facial Surgery, Charleston, WV  
Valley Park Community Center, Hurricane, WV  
WVDNR Forks of Coal, Alum, WV  
Marshall County Readiness Center, Moundsville, WV

## Other Jobs from Past Employers:

WVU Parkersburg Center for Early Learning - Parkersburg, WV  
WVU Parkersburg Applied Technology Center - Parkersburg, WV  
Marsh Fork Elementary School - Naoma, WV  
BridgeValley Advanced Technology Center – So. Charleston, WV  
New River Community and Technical College Headquarters Building - Beaver, WV  
Lewisburg Elementary School - Lewisburg, WV  
Rainelle Elementary School - Rainelle, WV  
Boone County Honors Academy Addition - Madison, WV  
Monongalia County Justice Center - Morgantown, WV  
Lewis Co. Judicial Annex - Weston, WV  
Charleston Correctional Work Release Center - Charleston, WV  
Stevens Correctional Facility - Welch, WV

## Education

B.S., Civil Engineering, West Virginia University Institute of Technology, Montgomery, WV, 2006

## Employment History

2016 - Present, Structural Engineer, ZMM  
2016, Civil/Structural Lead, Jacobs Engineering Group  
2013 - 2016, Structural Engineer, Chapman Technical Group  
2010 - 2013, Structural Engineer/Project Manager, Moment Engineers  
2007 - 2010, Structural Engineer/Project Manager, Advantage Group Engineers, Inc. (Cincinnati, OH)

# Benjamin S. McMillan, PE, LEED AP



## Role

Civil Engineer

## Professional Registrations

Professional Engineer (WV, VA, KY)  
LEED Accredited Professional

Mr. McMillan has 13 years' experience and knowledge in land development throughout Virginia. Mr. McMillan has experience in creating site plans and producing reports and specifications for institutional, commercial, residential, utility-scale solar, and one utility-scale wind project. Site plan preparations included layout, utility plans, grading, drainage, stormwater management, and erosion and sediment control.

Mr. McMillan also attends meetings, interacts with clients and contractors, performs various construction administration duties, and visits projects throughout the design and construction phases. Additional experience includes:

- Experienced in land development for institutional, multi-family residential, commercial, industrial, and utility-scale solar projects.
- Knowledgeable of all phases of land development from schematic design through project close-out.
- Complied with and obtained approval from many different municipal and state agencies in multiple states.
- Proficient in AutoCAD Civil 3D and familiar with other engineering design programs such as Autodesk Storm & Sanitary Analysis, HydraFLOW, HydroCAD, Flowmaster, and PondPack.
- Coordinated site designs with other design disciplines including Architects, Landscape Architects, Mechanical Engineers, Electrical Engineers, Structural Engineers, and Geotechnical Engineers.

## Project Experience

Jackson General Hospital Expansion, Ripley, WV  
New River Medical Mall, Fayetteville, WV  
Health Right Medical Clinic, Charleston, WV  
WV Department of Agriculture Lab Building, Charleston, WV  
Salvation Army, Beckley, WV

## Education

Bachelor of Science in Civil Engineering, Minor in Public and Urban Affairs, Virginia Polytechnic Institute and State University, Blacksburg, VA, 2007

## Employment History

2020 - Present, Civil Engineer, ZMM  
2013 - 2020, Senior Project Engineer, Timmons Group, Richmond, VA  
2008 - 2013, Civil Engineer, OWPR, Blacksburg, VA  
2007 - 2008, Project Engineer, Anderson & Associates, Blacksburg, VA