



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

Proc Folder: 1436133			Reason for Modification:
Doc Description: Huntington Tri-State Readiness Center Addition Design EOI			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2024-05-30	2024-06-13 13:30	CEOI 0603 ADJ2400000004	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: ZMM Architects and Engineers

Vendor Name :

Address : 222 Lee Street, West

Street :


City : Charleston

State : WV **Country :** USA **Zip :** 25302

Principal Contact : Adam Krason, AIA

Vendor Contact Phone: 304.342.0159 **Extension:** 234

FOR INFORMATION CONTACT THE BUYER
David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor Signature X  **FEIN#** 550676608 **DATE** June 17, 2024

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WV PURCHASING
DIVISION

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.

(Printed Name and Title) Adam Krason, Principal

(Address) 222 Lee Street West, Charleston, WV 25302

(Phone Number) / (Fax Number) 304.342.0159 / 304.345.8144

(email address) ark@zmm.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract 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contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise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 this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; 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; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

ZMM Architects and Engineers



(Signature of Authorized Representative)

Adam Krason, Principal

06/17/24

(Printed Name and Title of Authorized Representative) (Date)

304.342.0159 / 304.345.8144

(Phone Number) (Fax Number)

ark@zmm.com

(Email Address)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI ADJ2400000004

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 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 Architects and Engineers

Company



Authorized Signature

June 17, 2024

Date

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



EXPRESSION OF INTEREST

To Provide Professional
Architecture/Engineering Services:

Huntington Tri-State
Readiness Center Addition

**June 17, 2024
ADJ2400000004**

ZMM.COM

June 17, 2024

Mr. David H. Pauline, Senior Buyer
State of West Virginia, Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305

**Subject: Expression of Interest to Provide Architecture and Engineering Services for
Huntington Tri-State Readiness Center Addition – ADJ2400000004**



Mr. Pauline:

ZMM Architects and Engineers is pleased to submit the attached information to demonstrate our experience and our qualifications to provide professional architectural and engineering services for the Huntington Tri-State Armory Addition Design project. Established in 1959, ZMM is a West Virginia based, full-service A/E firm, and is noted for design excellence and client focus. It is ZMM's understanding that the project involves providing design and documentation in a Phase 1 design services for an addition to the Huntington Tri-State Readiness Center located in Kenova, WV. The current facility is approximately 30,000 square feet and requires an addition to the current structure to fully support the mission of the facility. Phase 2 will begin once federal funding is secured and will include the remaining 65% of the construction design documents, bidding, and construction administration.

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 electrical), interior design, and construction administration in-house. ZMM strives to put together the best team for each design project, for this reason ZMM and Moonlight Engineering will be teaming together to provide WVARNG with the best team of engineers and architects. Our architects and engineers are highly qualified and have worked together to deliver projects with similar scope and complexity.

As noted above, our ability to provide comprehensive design services will be beneficial to the West Virginia Army National Guard as you undertake the Huntington Tri-State Armory Addition Design project. Utilizing a full team of design professionals will help ensure the quality of the project and will help eliminate risk for the West Virginia Army National Guard.

Perhaps most importantly, the ZMM team has worked collaboratively with the WVARNG on a variety of addition and renovation, including:

- Buckhannon Readiness Center
- Kenova SCIF Project
- MCA – South (3 Phases)
- Camp Dawson Building 202 Renovation
- MCA – Jobs Challenge Facility
- Camp Dawson Building 245 Renovation
- Camp Dawson Building 246 Renovation
- Camp Dawson Building 301 Renovation
- Camp Dawson Building 106

We are hopeful that you observed our commitment to design quality, budget and schedule control, and client service demonstrated on these projects. The members of ZMM's proposed team have provided design and construction phase services on multiple additional WVARNG projects including the Joint Interagency Training and Education Center (JITEC), the Regional Training Institute (RTI), the Kingwood AFRC, as well as the Jackson County AFRC, the Glen Jean AFRC, the CFMO Expansion, the Tackett Family Readiness Center, the Morgantown Readiness Center, and the Logan-Mingo Readiness Center.

Our experience with the West Virginia Army National Guard's construction program will help us to facilitate the project and improve both the design and construction process. Several of these projects including the CFMO Expansion, the JITEC, and the Logan-Mingo Readiness Center were recognized with design awards. In fact, ZMM's commitment to design quality 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.

ZMM Architects and Engineers has a significant portfolio of projects in the Tri-State area. This experience includes projects for Cabell and Wayne County Schools, the City of Huntington, and Marshall University. Recent projects include planned improvements to the Keith Albee Performing Arts Center and the adaptive reuse of the former Sears store in Huntington Mall into the Woody Williams Center for Advanced Learning.

Thank you for taking the time to review the attached expression of interest that includes information about our proposed approach for the Tri-State Armory HVAC Renovation Project, as well as ZMM's qualifications, and relevant project experience. Additionally, please visit our website at zmm.com to see the full range of renovation projects that we have designed. We appreciate your consideration for this important endeavor and look forward to meeting with you to discuss the project in greater detail.

Respectfully submitted,
ZMM Architects and Engineers



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

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A

FIRM PROFILES

ABOUT ZMM ARCHITECTS & ENGINEERS

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 Doeffering, PE and Steve Branner in 1986. Mr. Doeffering 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 60 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

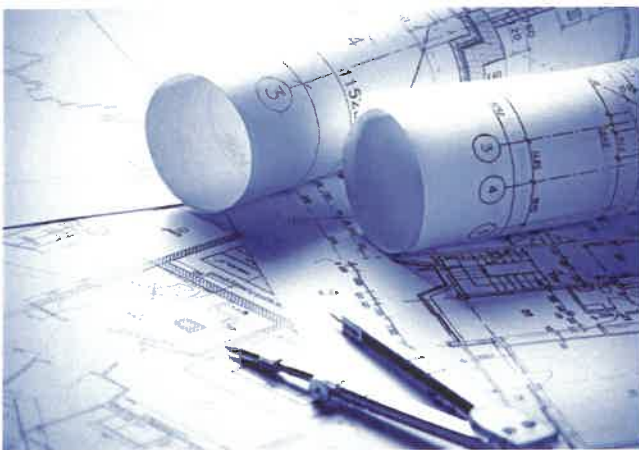
Charleston, West Virginia



ABOUT MOONLIGHT ENGINEERING, PLLC

Moonlight Engineering, PLLC was founded in 2024 in Jane Lew, West Virginia by Trevor Lloyd, PE, and Griffin Sepp, PE.

Trevor Lloyd and Griffin Sepp, both licensed Professional Engineers with degrees in Civil Engineering from West Virginia University and established Moonlight Engineering in 2024. They worked side by side at both a consulting firm and directly for a major developer before forming their own company. Mr. Sepp's deep knowledge of design and Mr. Lloyd's management and problem-solving abilities complement each other perfectly. Their partnership was forged from a shared dedication to delivering efficient engineering solutions that align with clients' business objectives.



Experience and Expertise

Together, Lloyd and Sepp bring a wealth of experience to Moonlight Engineering. With a combined portfolio spanning over one hundred civil engineering projects, they have demonstrated proficiency across various project types and sizes. In the past nine years, they have focused on residential subdivisions and commercial properties, including the development of hundreds of acres for single-family homes, townhomes and small to large retail spaces such as stand-alone structures to entire shopping malls.

Comprehensive Services

Moonlight Engineering offers comprehensive civil design services encompassing a diverse range of project types. These include residential subdivisions, military facilities, commercial structures, public works, road improvements, and light industrial facilities. Products include full construction and permit documents for site plans, water distribution, sanitary sewer, erosion and sediment control, stormwater management, floodplain analysis, commercial landscaping, and signage plans.

Personalized Approach

At Moonlight Engineering, every project is meticulously handled by Mr. Lloyd and Mr. Sepp. From land evaluation and field survey to concept development, permit acquisition, full design, cost estimation, value engineering, and conflict resolution, they personally oversee every facet to ensure optimal outcomes.

With a commitment to excellence, Moonlight Engineering continues to set industry standards by delivering innovative and effective engineering solutions tailored to meet the unique needs of each client.

Moonlight Engineering, PLLC



B

RELEVANT EXPERIENCE

HVAC RENOVATION EXPERIENCE



Charleston Coliseum & Convention Center (2015) – Replace entire MEP infrastructure three 1,000 ton chillers and cooling towers, three 8,000 mbh gas condensing boilers, approximately ten VAV AHU's, approximately 10 large single zone VAV AHU's.

Charleston Kanawha Health Department (2015) – Replace entire mechanical system to include air cooled chiller, gas fired make-up unit and zone fan coils with electric reheat, approximately 45,000 SF new DDC controls.

United Bank Building – Cooling Tower Replacement (2010) – Two 400 ton centrifugal chillers, rebuild two large VAV AHU's, installed free cooling plate frame heat exchangers (2015).

Kanawha County Public Library (2015) – Replaced two gas-fired boilers with new gas condensing boilers .

Building 5 Capital Complex (2008) – Replaced 10th floor office space air condition, replaced perimeter induction units with new steam chilled water air handling units, distributed VAV terminal units with modification to architectural fit out approximately 22,000 Sf. Installed new sprinkler service entrance for Buildings 5, 6, and 7.

Capitol Complex Building 5, 7th, 8th, & 9th Floors – Rebuild perimeter induction system and interior multi-zone distribution in addition to total architectural fit up, approximately 70,000 SF.

Capitol Complex Building 6, 3rd, 4th, & 5th Floors - Rebuild perimeter induction system and interior multi-zone distribution in addition to total architectural fit up, approximately 70,000 SF.

WV Lottery Headquarters Building (2014 - 2015) – Installed 40,000 SF of new variable refrigerant system, new make-up air system, comprehensive architectural services.

WV State Capitol Cafeteria – Installation of large catering and service kitchen, included steam make-up air system, 3 Class 1 kitchen hoods, Class 2 kitchen hoods, all plumbing system, sprinkler system including sprinkler service entrance for entire Capitol Buildings, comprehensive architectural services.

Old Kanawha Valley Bank Building (2003) - New cooling chiller.
(2015) - New cooling tower.

City Center East (2008) Chiller Replacement.

Tenant Fit-Up Numerous Office Buildings Charleston – BB&T Building, City Center East, United National Bank Building, Hunting National Bank Building to include VAV distribution, electrical and architectural services.

HVAC RENOVATION EXPERIENCE (CONT.)



Additional HVAC Projects:

Pleasant Hill Elementary School - HVAC Replacement
Keyser Middle School - HVAC Replacement
Huntington Herald Dispatch - HVAC Study
Walker Machinery Main Office Renovation - HVAC
Walker Diamond Office - HVAC
Walker Machinery - HVAC Renovations
State of WV – Governor's Mansion Corrective HVAC Study
Camp Dawson Regional Training Institute - HVAC
Central Regional Jail – HVAC and Roof Replacement
King of Prussia, PA – HVAC Design (Multiple Projects)
Kanawha Valley Senior Services - HVAC
Tolsia High School - HVAC Renovations
Cabell County Schools – (Multiple HVAC Projects)
Cabell County Career & Technical Center - HVAC
Cabell County Explorer Academy - HVAC
Harrisville Elementary School - HVAC
Ritchie County HS/MS - Cooling Tower Replacement
Spring Hill Elementary School - HVAC
Roane-Jackson Career & Technical Center
Salt Rock Elementary School - HVAC Renovation
Wayne County Schools – New HVAC System Projects
Greenbrier County Schools – New HVAC System Projects
Huntington High School
Cabell-Midland High School



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.





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 office space was developed for dual utilization as an emergency response center in the event of an emergency in the Morgantown area.

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.





JOINT INTERAGENCY TRAINING AND EDUCATION CENTER (JITEC)

LEED
GOLD

LOCATION KINGWOOD, WV	SIZE 283,000 SF	COMPLETION 2013	COST \$100M	AWARDS 2011 AIA WV HONOR AWARD
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ZMM, in association with AECOM, provided architectural and engineering design services for JITEC, an Army National Guard campus-style facility for training and operational mission support.

Sited on 30 acres near Camp Dawson, this project included the design of a new operations building, expansion of the billeting facility, renovation of the training facility, and creation of a new base access control point (ACP) and visitor's center. The vision behind the site design and updated master plan is that of a college campus atmosphere. The facility is designed to meet all anti-terrorism/force protection criteria and has achieved LEED Gold Certification. The operations building is prominently sited as the main focal point upon entering Camp Dawson and consists of four distinct areas: the Joint Operations Center (JOC), a suite of secure training rooms, base headquarters and JITEC administrative offices, and a server and telecommunications room.

Built to SCIF standards, the JOC contains a state-of-the-art command center, housing 48 permanent work stations in a theater-style configuration, facing a large video wall, flanked by conference rooms and offices for both officers and support staff. The billeting (hotel) expansion's lobby design provides a hotel atmosphere, underscored by the Liberty Lounge, an upscale bar and restaurant area, with wood finishes salvaged from the gymnasium floor of the former Preston County Armory.



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JACKSON COUNTY ARMED FORCES RESERVE CENTER

LOCATION | SIZE | COMPLETION | COST
MILLWOOD, WV | 75,000 SF | 2011 | \$20M

The building design was inspired by the adjacent Georgian-style Order of the Eastern Star facility.

The primary user for the WVARNG will be DET 1 821st Engineering Company, supported by a FSC of the 1092nd. USAR occupants include PLT AMMO 261 OD and PLT 1 (Postal) and PLT 6 (Postal) of the 44th Personnel Company. An expanded drill hall serves as a convention and meeting space. The relationship between the structures became crucial to the site layout. Once the aesthetic of the building was established, the massing of the facility was defined by breaking down the facility into smaller mass elements. The larger programmatic elements, such as the drill hall and the storage areas, employ an aesthetic that more closely implies their function.

The layout of the facility includes a main entry with the recruiting, family support, and administrative areas located on separate sides. A transverse wing houses all functions that have the potential for public use, while all primary military spaces developed along a similar perpendicular wing. This allows for separate entries to be developed for public functions, while the remainder of the facility can be secured. The layout also creates a large central courtyard, or parade field, that would be located at lower grade to define the edge facing the river. This edge is defined by a canopy that connects storage and locker areas to the expanded drill hall.





CHARLESTON COLISEUM & CONVENTION CENTER

LEED
SILVER

LOCATION CHARLESTON, WV	SIZE 283,000 SF	COMPLETION 2018	COST \$100M	AWARDS 2019 AIA WV HONOR AWARD, CITATION & PEOPLE'S CHOICE AWARD
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The Charleston Coliseum & Convention Center expansion and renovation was a transformational project for both the city of Charleston and West Virginia.

Our team built on the strong authentic character of Charleston to remake the Charleston Convention Center into a more efficient, sustainable, dynamic, and iconic best-in-class destination.

The design of the expansion and renovation of the Charleston Convention Center was inspired by the story of West Virginia. Defined by a rugged landscape, the early history of the state was dominated by extractive industries: salt, coal, timber, and trapping. This set the local character. Our design started with an organizational concept inspired by this history. The Convention Center has distinct active nodes to celebrate each activity; arena, convention, and banquet. These nodes are connected like the hills and cut-rock faces that are seen throughout the state, as people work to connect to each other through the landscape. The first critical design objective was to create separate entries and identities for the arena and convention center. This allowed for simultaneous events and clarity of use. For the Convention Center to thrive, it needed a real ballroom assembly space. Located overlooking the Elk River, the ballroom pre-function space is the most dramatic feature of the center.



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WEST VIRGINIA STATE CAPITOL

LOCATION
CHARLESTON, WV

COMPLETION
2007-2021

ZMM Architects & Engineers has completed a variety of improvement project to the State of West Virginia Capitol Building.

The improvements included a renovation to the lower-level food court, a roofing replacement, toilet renovations, and various HVAC improvements – including a project to increase safety during the Covid-19 pandemic. The food court renovations included a full-service kitchen, self-serve area, and seating for 300 people. ZMM worked with a kitchen consultant and provided demolition drawings, base architectural, mechanical, and electrical drawings. The project also included the design of the first phase of a wet pipe sprinkler system. In addition, ZMM also provided the documents to replace the Capitol medium-voltage transformers. ZMM met a stringent timeline for a critical construction completion date.

ZMM replaced the roof of the Capitol Building, which included the main buildings, connectors, and base of the dome. All roof system components were reviewed for integrity and ability to control moisture collection and removal. The components included in the project were parapet walls, railings, wall conditions, colonnades, roof penetrations, roof drains, roof equipment, and walking surfaces. Additional projects included improvements to the Senate toilets, a report that mapped all of the mechanical equipment in Capitol Building, and various mechanical improvements to make portions of the Capitol more safe for occupants during the pandemic.



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MARSHALL UNIVERSITY MULTIPLE PROJECTS

LOCATION | SIZE | COMPLETION
HUNTINGTON, WV | VARIOUS | ONGOING

ZMM has significant experience providing Architectural and Engineering services to Marshall University.

Smith Hall Renovation

This 22,000 SF renovation project was completed in 2017 and included interior finish and acoustical upgrades to improve the quality of the music practice rooms and additional performance areas. ZMM worked closely with Marshall University professors to determine the correct acoustics to meet the accreditation needs for the college. Taking inspiration from The Thundering Herd, the building was transformed with a mature palette and pops of green. Interior improvements included replacement of ceilings in areas that were affected by the HVAC replacement. Existing ceilings in the practice rooms received a sound blanket barrier and acoustical coating to improve the performance of the space. Paint, carpet and acoustical wall treatments were also installed.

Mechanical system improvements were implemented to correct issues of the aging HVAC system, which was a high-energy user. ZMM converted the system to VAV by installing terminal units with SCR electric reheat. A smaller electric coil provided enough electrical capacity to power the terminal reheat. ZMM retained the fan wall and chilled water coil and installed DDC controls. Dehumidification was provided by a gas-fired humidifier to maintain stable humidity. Additional projects at Smith Hall Include:

- Building Assessment
- Cooling Tower Replacement
- Underground Chilled Water Piping



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Marshall University (cont.)

- Retrofit AC Smith Hall Music Building - Dual Duct VAV Humidified Building



Drinko Library

- Mechanical and Electrical Assessment in 2022
- Cooling Tower

Morrow Library

- Underground Chilled Water Piping

IT/OT Security OP Center

- Development of the New Cyber Security Command Center



Sorrell Maintenance Building

- Air Conditioner Replacement

Applied Engineering Building

- Chiller Consulting

Pritchard Hall

- Chiller Replacement





WOODY WILLIAMS CENTER FOR ADVANCED LEARNING AND CAREERS

LOCATION | SIZE | COMPLETION | COST
 BARBOURSVILLE, WV | 230,000 SF | TBD | \$40M EST.

The new Cabell County Career and Technology Center is one of six projects funded through a bond passed by Cabell County voters in 2020.

This project was renamed the Woody Williams Center for Advanced Learning and Careers and converts the existing abandoned 230,000 sf SEARS Store at the Huntington Mall. This innovative educational center will help prepare students for the workplace through a variety of pathways in career and technical fields.

The facility will be host to more traditional programs such as Auto Mechanics, Collision Repair, Welding, Machine Tool Technology, HVAC, Electrical, Carpentry, Building Facility Maintenance, Masonry, Plumbing, Culinary Arts, and Cosmetology. In addition to the traditional programs' students will have the opportunity to explore other options such as Vocational Agriculture, Graphic Design, Law and Public Safety, Medical Assisting, LPN, Coding, and Aerospace Engineering. Students will also have the option to take associated classes at their home high school or have the option to remain at the Career Center the entire day and take all their classes at that location.

The facility will also have a Multipurpose Room so students can meet all their PE credits, Meeting Rooms for events and county wide meetings, and a full Kitchen and Dining area for students as well as a rooftop dining space. Collaborative spaces for students to gather are scattered throughout the facility. Graduates can also attend as a year fourteen student and participate in several selected programs. The facility will also be open after school hours for hobby classes and adult programs.



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Woody Williams Center (cont.)

The existing painted masonry façade will be clad in multicolored metal panels and horizontal windows. The existing main entrances will be removed and reimagined with a two-story glass façade that stretches into the existing building and terminates into a lecture stair adjacent to a live green wall. The two-story entrance corridor will be the focal point of the interior space, highlighting the classrooms that overlook the entrance corridor. All classrooms and lab areas will have a glass entrance to showcase the technology and career learning that goes on inside the space.

This is a groundbreaking project for Cabell County Schools and education design in West Virginia that reimagines an abandoned retail store into a career academy showcasing technology and career education for high school students and adult education.





C

TEAM QUALIFICATIONS



ADAM KRASON

AIA, LEED AP, ALEP

Principal

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 and energy efficiency and has participated and presented at sustainable design seminars throughout the region. Mr. Krason also serves on the Board of Directors and is responsible for firm management, business development, and corporate philanthropy at ZMM. In addition to his role at ZMM, Mr. Krason is actively engaged in his community, serving on a variety of statewide and local civic and non-profit boards.

EDUCATION

Bachelor of Architecture
The Catholic University of America, 1998

Bachelor of Civil Engineering
The Catholic University of America, 1997

LICENSURE

Virginia, West Virginia, Ohio, Kentucky,
Maryland & New Jersey

AFFILIATIONS

Association for Learning Environments

WV Board of Architects, President

American Institute of Architects,
Strategic Council

Charleston Area Alliance, Board Chair

Goodwill Industries of Kanawha Valley,
Past Board Chair

Clay Center, Advisory Board

WV Symphony Orchestra, Board of Directors

Charleston Main Streets, Board of Directors

Charleston Municipal Planning Commission

Charleston Historic Landmarks Commission

Education Alliance, Board Chair

PROJECT EXPERIENCE

Capital Sports Center Conceptual Design - Charleston, WV

The Clay Center for the Arts and Science (Multiple Projects) -
Charleston, WV

State Office Building #5, 10th Floor Renovation (Office of Technology)
- Charleston, WV

Charleston Coliseum and Convention Center - Charleston, WV

Girl Scouts of Black Diamond Council - Charleston, WV

Goodwill Prosperity Center - Charleston, WV

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

Wood County Justice Center - Parkersburg, WV

Wood County Resiliency Center - Parkersburg, WV

Construction and Facilities Management Office (WVARNG) -
Charleston, WV

Shawnee Sports Center - Institute, WV

Joint Interagency Training and Education Center (WVARNG) -
Kingwood, WV

Christ Church United Methodist - Charleston, WV



ADAM KRASON

AIA, LEED AP, ALEP

Principal

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 and energy efficiency and has participated and presented at sustainable design seminars throughout the region. Mr. Krason also serves on the Board of Directors and is responsible for firm management, business development, and corporate philanthropy at ZMM. In addition to his role at ZMM, Mr. Krason is actively engaged in his community, serving on a variety of statewide and local civic and non-profit boards.

EDUCATION

Bachelor of Architecture
The Catholic University of America, 1998

Bachelor of Civil Engineering
The Catholic University of America, 1997

LICENSURE

Virginia, West Virginia, Ohio, Kentucky,
Maryland & New Jersey

AFFILIATIONS

Association for Learning Environments

WV Board of Architects, President

American Institute of Architects,
Strategic Council

Charleston Area Alliance, Board Chair

Goodwill Industries of Kanawha Valley,
Past Board Chair

Clay Center, Advisory Board

WV Symphony Orchestra, Board of Directors

Charleston Main Streets, Board of Directors

Charleston Municipal Planning Commission

Charleston Historic Landmarks Commission

Education Alliance, Board Chair

PROJECT EXPERIENCE

Capital Sports Center Conceptual Design - Charleston, WV

The Clay Center for the Arts and Science (Multiple Projects) -
Charleston, WV

State Office Building #5, 10th Floor Renovation (Office of Technology)
- Charleston, WV

Charleston Coliseum and Convention Center - Charleston, WV

Girl Scouts of Black Diamond Council - Charleston, WV

Goodwill Prosperity Center - Charleston, WV

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

Wood County Justice Center - Parkersburg, WV

Wood County Resiliency Center - Parkersburg, WV

Construction and Facilities Management Office (WVARNG) -
Charleston, WV

Shawnee Sports Center - Institute, WV

Joint Interagency Training and Education Center (WVARNG) -
Kingwood, WV

Christ Church United Methodist - Charleston, WV



Nathan Spencer

AIA

Project Architect

Mr. Spencer is responsible for coordinating the efforts of the design team in preparing thorough and clear design documents. He has experience in all phases of design working on a wide range of building types including; military, educational, office, justice, and residential.

He has worked on several projects that are currently pursuing LEED certification. In addition to production, Mr. Spencer, is also experienced in 3d modeling. He has worked on several preliminary concept study models as well as high quality renderings and 3d models later in the design process. Mr. Spencer is also experienced in high quality physical models.

Mr. Spencer began his career in architecture with ZMM in 2003, working as a summer intern. After graduating in 2003, he began working at ZMM full time.

EDUCATION

Bachelor of Architecture
University of Tennessee, 2007

LICENSURE

West Virginia

AFFILIATIONS

WV Chapter, American Institute of Architects,
Member

PROJECT EXPERIENCE

Kenova AFRC SCIF Building - Kenova, WV

Logan-Mingo Readiness Center - Holden, WV

Jackson County AFRC - Millwood, WV

Joint Interagency Training and Education Center (JITEC) - Kingwood, WV

Buckhannon Readiness Center - Buckhannon, WV

Parkersburg Readiness Center (not built) - Parkersburg, WV

Marshall Readiness Center - Moundsville, WV

AASF #1 and #2 Hangar Additions

Mountaineer Challenge Academy South - Montgomery, WV

Morgantown Readiness Center - Morgantown, WV

Highland Hospital - Charleston, WV

Charleston Coliseum & Convention Center - Charleston, WV

Shawnee Sports Center - Institute, WV

Tucker County Courthouse Annex - Parsons, WV

Judge Black Courthouse Annex - Parkersburg, WV

Intuit Prosperity Hub - Bluefield, WV

EXPERIENCE OF MOONLIGHT ENGINEERING

Trevor Lloyd, P.E.

Mr. Lloyd, brings a wealth of diverse experience to Moonlight Engineering. His background includes regulatory engineering at the municipal level, architectural engineering for federal buildings, military engineering worldwide, and private sector design engineering in West Virginia. He currently serves as a Lieutenant Colonel in the West Virginia National Guard, assigned as the Battalion Commander of the Regional Training Institute in Camp Dawson, WV. During his tenure in the WV National Guard, he has led multiple engineering and survey missions in dozens of countries to meet mission requirements. Mr. Lloyd also holds the role of Engineer of Responsible Charge for ILA Properties, Inc. and Moonlight Engineering, PLLC.



Griffin Sepp, P.E.

Mr. Sepp possesses a deep knowledge of civil design. An expert at computer aided drafting and stormwater analysis software, he quickly rose through the ranks and obtained the title of Design Manager. He has led teams of engineers for large scale residential and commercial developments for both a private consulting firm and a major developer. His recent design portfolio includes the infrastructure and site design for the Middletown Commons redevelopment project in Fairmont, WV leading to the successful completion of a challenging project. He was also the lead designer for the Hunter Hills Subdivision in Jefferson County, the largest and most complex subdivision the County has approved in the past 20 years.



CARLY CHAPMAN

Director of Interior Design



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.

EDUCATION

Bachelor of Interior Design
University of Charleston - 2012

AFFILIATIONS

Association for Learning Environments

PROJECT EXPERIENCE

Wood County 911 Call Center - Parkersburg, WV

Intuit Prosperity Hub - Bluefield, WV

Goodwill Industries - Parkersburg, WV

WV State Capitol Senate Bathroom Renovations - Charleston, WV

State Office Building #6 Renovations - Charleston, WV

Charleston Coliseum and Convention Center - Charleston, WV

Capital Sports Center - Charleston, WV

Charleston EDGE - Charleston, WV

Valley Park Community Center - Hurricane, WV

Pipestem Resort State Park Lodge Interior Renovations - Pipestem, WV

Cabell County Career and Technical Center - Huntington, WV

WV School of Osteopathic Medicine Multiple Projects - Lewisburg, WV

Wood County Schools - Wood County, WV

- Williamson Elementary School

- Wood County Tech Center

Nicholas County Schools - Nicholas County, WV

- Nicholas County High School / Summersville Middle School / NCCTC

- Cherry River Elementary / Richwood Middle School



CARLIE RAY

Senior Interior Designer

Carlie serves as an Interior Designer at ZMM. She is a detail-oriented and creative professional with extensive knowledge in interior architecture. Carlie's goal with every project is to create a beautiful and functional environment that suits the client's needs.

As an interior designer, her background includes commercial properties, education, healthcare, historic adaptive reuse, residential properties, existing building renovations, and hospitality design. She has experience managing a variety of project elements: interior space planning, finish and fixture selection, creating concept presentations, rendering 3D models, and producing construction documents to ensure that each project seamlessly transitions from concept to reality.

EDUCATION

Bachelor of Science in Interior Design
West Virginia University, 2017

AFFILIATIONS

NCIDQ Certification ID#35513

West Virginia University - Interior
Architecture Advisory Board Member

PROJECT EXPERIENCE

Capital Sports Center - Charleston, WV

National Weather Service Building - Charleston, WV

Coonskin Park Clubhouse Renovations - Charleston, WV

WVDNR Cooper's Rock - Morgantown, WV

WVDNR Beech Fork State Park Cabins - Lavalette, WV

KRT New Laidley Transit Ticket Booth - Charleston, WV

Wood County Resiliency Center - Parkersburg, WV

WVARNG Buckhannon Readiness Center Addition - Buckhannon, WV

Goodwill Industries - Parkersburg, WV

Salvation Army - Beckley, WV

Step toe & Johnson Law Office Renovation - Charleston, WV

Premier Bank - Spencer, WV

Williamson Health and Wellness Renovation - Williamson, WV

New River Health Medical Mall - Fayetteville, WV

WVSOM Community Health Center - Lewisburg, WV

Cabell County Career and Tech Renovation - Huntington, WV

Staats Building Renovation - Charleston, WV

WV School for the Deaf and the Blind Renovations - Romney, WV



JOHN PRUETT

PE, LEED AP

Senior Mechanical Engineer

Mr. Pruett is responsible for overseeing the design of the HVAC systems, ensuring that the HVAC systems meet the program requirements, and 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. Mr. Pruett coordinates with other disciplines 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 engineering career with a manufacturing company in 1994. In 1998, he made a career change and joined an engineering consulting firm. He has a broad range of experience in HVAC systems design, including: government, education, office buildings, 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

EDUCATION

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

LICENSURE

West Virginia, Virginia, Indiana
LEED Accredited Professional

AFFILIATIONS

American Society of Heating, Refrigerating
and Air-Conditioning Engineers (ASHRAE),
Member

United States Marine Corps - 14 Years

PROJECT EXPERIENCE

WV Army National Guard - WV

- Camp Dawson Building 106
- Camp Dawson Building 245
- Camp Dawson Building 246
- Camp Dawson Building 301
- Camp Dawson Mail Facility
- Marshall County Readiness
- Camp Dawson Job Challenge Academy

WVDNR District 5 Headquarters - Alum Creek, WV

WV State Police Headquarters - So. Charleston, WV

Wood County Resiliency Center - Parkersburg, WV

WV State Capitol Renovations - Charleston, WV

General Services Division Surplus Property - Dunbar, WV

WV Housing Development Fund Office Building - Charleston, WV

Tucker County Courthouse Renovations - Parsons, WV

Gilmer County Courthouse Renovations - Glenville, WV

St. Margaret's Judicial Center 3rd Floor Renovations - Martinsburg, WV

Jackson County Maintenance and Transportation - Ripley, WV

Jackson County EMS Building - Ripley, WV



FRANKIE KANTSIOS

PE

Electrical Engineer

As an electrical engineer, Mr. Kantsios is consistently motivated to adapt to the team's needs in assessing and finalizing the project on time. He is an experienced professional with a proven record of managing projects from concept to completion while staying versatile to the specific project at hand. By carrying out engineering and design services for a diverse field of projects since 2013, Mr. Kantsios has expanded his knowledge and understanding of the industry; providing him with the means to meet the clients' needs for each individual program. He has been actively involved in the design of a wide array of new structures and renovations to include K-12 educational buildings, higher education buildings, healthcare facilities, office buildings, banks, restaurants, hotels, automotive dealerships and service centers, apartment complexes and dorms, industrial facilities and warehouses, and athletic facilities. Whether working independently or in conjunction with other architects, engineers, and contractors, Mr. Kantsios excels at creating effective solutions and developing opportunities that further establish organizational goals.

EDUCATION

Bachelor of Science
Old Dominion University, 2019

Associate of Applied Science
New River Community College, 2016

LICENSURE

West Virginia
Virginia

PROJECT EXPERIENCE

Carilion New River Valley Medical Center - VA

- Cardiology Expansion
- Infusion Clinic Alterations

HCA Healthcare - VA

- LewisGale Hospital Montgomery - 3rd Floor Graduate Medical Education Center

InnovAge PACE - VA

- New Richmond Facility
- New Roanoke Facility
- Roanoke Facility Study

Bath Community Hospital - VA

- New Pharmacy Building*

New Triumph Baptist Church - VA

Frederick County Sunny Side Voter Registrar's Office- VA

- A.S. Rhodes Elementary School Renovations

New River Community College - VA

- ADA Accessibility Improvements

City of Covington City Hall Renovations - VA*

Pulaski County Administration Building Renovation - VA*

**Previous Employer Experience*



MIKE FLOWERS

Plumbing Designer / Mechanical Technician

Mr. Flowers is responsible for the design of Plumbing systems, ensuring that the systems are designed to meet the needs of the owner and utilize the latest plumbing technologies to provide the most energy efficient design possible. Mr. Flowers has participated on several LEED registered projects; one of his key contributions to these projects is selecting plumbing fixtures and accessories in his design that require less utility consumption, so significant utility savings are passed on to the owner and the environment as well.

Mr. Flowers has had extensive experience in the field of construction where he frequently visits ZMM's current projects under construction and thoroughly checks the contractors work to ensure compliance with project specifications and construction documents.

EDUCATION

Associate in Mechanical Drafting and Design; 1990, Ben Franklin Career and Technical Center

Associate in Electronics Technology; 1987, Putnam Career and Technical Center

Associate of Science; 1988, West Virginia State University

Completed Dale Carnegie course in Effective Communications and Human Relations and Skills for Success

PROJECT EXPERIENCE

WVARNG - WV

- **Morgantown Readiness Center**
- **Logan-Mingo Readiness Center**
- **Jackson County AFRC**
- **Mountaineer Challenge Academy**
- **Buckhannon Readiness Center**
- **Buildings 202, 246, and 301**
- **Camp Dawson Mail facility**

WV State Capitol Senate Bathroom Renovations - Charleston, WV

Tucker County Courthouse - Annex - Parsons, WV

Wood County Justice Center - Parkersburg, WV

WV State Police Headquarters Building Renovation - So. Charleston, WV

Goodwill Industries - Parkersburg, WV



EDUCATION

Associate Degree, Mechanical Engineering
Pittsburgh Technical Institute - 1978

KEITH L. GONZALES

Construction Administrator

Mr. Gonzales describes his role with ZMM as Construction Administrator as an exciting and challenging opportunity with new experiences every day. From varying jobsite conditions to the differing professionals, he works with daily, Mr. Gonzales approaches construction administration with over 40 years' experience in the construction industry and the desire to help provide the best outcomes possible for each project.

Mr. Gonzales prior to coming on board with ZMM oversaw the CAD/BIM coordination and design of major projects in the Columbus area. Mr. Gonzales project variety includes Educational (K-12 and University), Commercial, Military, Office, Justice (Courthouses, Justice Centers), Healthcare (Health Departments), Roof replacement projects.

PROJECT EXPERIENCE

Wood County Resiliency Center - Parkersburg, WV

Wood County Courthouse - Bell Tower Renovation - Parkersburg, WV

WV State Office Buildings 5, 6, & 7 - Charleston, WV

Charleston Coliseum and Convention Center - Charleston, WV

Girl Scouts of Black Diamond Renovation - Charleston, WV

Christ Church United Methodist - Charleston, WV

National Weather Center Building (NOAA) - So. Charleston, WV

WVDNR - Pipestem State Park Resort Renovations - Pipestem, WV

WVDNR - Claudia Workman Fish and Wildlife Education Center - Alum Creek, WV

BOYD CAT- Nitro and Belle Locations, WV

YMCA Sojourners Shelter - Charleston, WV

BridgeValley CTC Nursing Wing Renovation - So. Charleston, WV

New River Health Medical Center Renovation - Oak Hill, WV

Valley Health Systems - Huntington, WV



D

PROJECT APPROACH

PROJECT APPROACH

BACKGROUND

Based upon ZMM's understanding of the information contained in the request for expression of interest, the project involves providing design and documentation in a Phase 1 design services for an addition to the Huntington Tri-State Readiness Center located in Kenova, WV. The current facility is approximately 30,000 square feet and requires an addition to the current structure to fully support the mission of the facility. Phase 2 will begin once federal funding is secured and will include the remaining 65% of the construction design documents, bidding, and construction administration.



The technical nature of an addition project demonstrates the need for a full-service design team with experience providing design services for the WVARNG. ZMM has the technical professionals - including architects, interior designers, and engineers (mechanical, plumbing, and electrical) - needed to address every aspect of this WVARNG project. ZMM strives to put together the best team for each design project, for this reason ZMM and Moonlight Engineering will be teaming together to provide WVARNG with the best team of engineers and architects. If selected for this engagement, ZMM will staff the project with the architects and engineers that have previously worked successfully on a variety of projects for the WVARNG, including the Camp Dawson Barracks Building 246 Renovation, the Camp Dawson Building 301 Renovation, the Camp Dawson Building 202 Improvements, the MCA-South, the MCA - Job Challenge Facility, the Kenova Secure Area, and the CFMO Expansion.

DESIGN APPROACH

Addition projects require a unique approach due to providing an extension to an existing facility requiring the input of a variety of team members including architects, mechanical engineers, and interior designers.

The first phase in a successful addition project involves conducting a thorough examination of the existing facilities to identify deficiencies and opportunities, while confirming the project scope and budget. The purpose of the investigation is to determine the condition of the major building systems, and to validate the proposed project scope and budget. ZMM will commence the investigation by developing as-built plans of the existing facility. Once these plans are complete, ZMM will conduct a facility evaluation of the portion of the facility to receive the new addition with a team of architects and engineers, in conjunction with WVARNG personnel. The proposed addition will also be reviewed with the State Fire Marshal.

Once the first phase is completed, ZMM will develop plans, specifications, and bidding documents for the proposed improvements. Drawings, specifications, and estimates will be submitted for review at 35% (as noted above), and again at 65%, 95%, and 100% once federal funding has been secured and Phase 2 of the project begins. Our recent experience working with WVARNG will ensure that all documents meet your requirements and standards - saving the WVARNG additional effort and expediting the design phase of the project. 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 the WVARNG team, with the objective of ensuring the seamless delivery of your project.



D. Project Approach and Understanding (cont.)



PROJECT MANAGEMENT PLAN

ZMM Architects and Engineers proposes to provide services on the project with a team of design professionals that have worked together on a variety of WVARNG facilities throughout the state. The team will be led by Adam Krason (Principal) and Nathan Spencer (Project Manager and Architect). Mr. Krason and Mr. Spencer have led ZMM's effort on our recent work for the WVARNG. ZMM's team has successfully collaborated on multiple projects for the WVARNG, and each team member is familiar with the standards, requirements, and processes that are utilized by the Guard.

ZMM QUALITY CONTROL PLAN

Quality control during the design phase begins with the selection of team members with experience working on projects that are similar to the current effort. ZMM Architects and Engineers staff possesses the WVARNG design experience to ensure the success of the project. Quality control during the design phase will occur through regular, documented, project meetings between the design team and the Guard. In addition to the regular design phase meetings more formal QA/QC will occur at the end of each design phase. A more detailed description of the design phase quality control plan is noted below:

1. Selecting the Project Team

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

2. Identifying Project Requirements

Project team members are fully integrated in each phase of the design process, ensuring a quality project from the commencement. The project requirements are included in a 'Basis of Design' that each member of the project team can access. The 'Basis of Design' helps guide important project decisions.

3. Identifying Client Expectations

Knowing and understanding our clients' expectations is our goal. This knowledge gives ZMM a baseline for exceeding expectations. We will commence the design effort with a planning session to help identify your vision for the project.

D. Project Approach and Understanding (cont.)

4. Ongoing Project Reviews

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

Phase 1:

Design Phase (35%)

Phase 2:

Development Phase (65%)

Construction Documents Phase (95%)

Construction Administration Phase

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

5. Post Project Review

At the completion of every project, ZMM staff members participate in a learning session to gain insight useful for future projects. ZMM will also conduct an 11-month warranty inspection with the WVARNG to ensure that all systems are operating as designed, and to facilitate any final work with the contractor.



6. Staff Training, Assessment and Enhancement

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

ZMM COST CONTROL PLAN

As part of our effort to ensure our ability to meet WVARNG's budget, ZMM will rely on both historic bidding data (for restroom/shower renovation projects) as well as independent estimates to verify the project budget. For this project ZMM would utilize Win Strock to provide the independent estimate. ZMM and Mr. Strock have successfully collaborated on multiple projects, including:

- Camp Dawson Building 246 Improvements
- Camp Dawson Building 301 Improvements
- Camp Dawson Building 202 Improvements
- Mountaineer Challenge Academy - South
- Logan-Mingo Readiness Center
- Parkersburg Readiness Center
- Building 5, 6, & 7 Improvements
- WVDNR District 5 Office
- WVDNR Claudia Workman Fish & Wildlife Education Center
- Beech Fork Lodge
- West Virginia State Police Information Services Center
- West Virginia State Lottery Headquarters Renovation



ZMM has a history of working to successfully bring projects under challenging budget and schedule constraints for the WVARNG. We commit to working with you to meet the budget and schedule for the Huntington Tri-State Readiness Center Addition Design project.



E

CLIENT REFERENCES

CLIENT REFERENCES



Robert Kilpatrick, Deputy Director
General Services Division of WV
304.352.5491



Bradley Leslie, PE, Assistant Chief
(retired)
WVDNR - State Parks Section
324 4th Avenue
So. Charleston, WV 25303
304.389.7663 cell



Todd Reynolds, Deputy Branch Chief
WVARNG
1707 Coonskin Drive
Charleston, WV 25311
304.380.7226 cell



Thank You

FOR REVIEWING THIS MATERIAL.

BLACKSBURG
VIRGINIA

CHARLESTON
WEST VIRGINIA

MARTINSBURG
WEST VIRGINIA

MARIETTA
OHIO

ZMM.COM



EXPRESSION OF INTEREST

To Provide Professional
Architecture/Engineering Services:

Huntington Tri-State
Readiness Center Addition

June 17, 2024
ADJ2400000004

ZMM.COM

June 17, 2024

Mr. David H. Pauline, Senior Buyer
State of West Virginia, Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305



**Subject: Expression of Interest to Provide Architecture and Engineering Services for
Huntington Tri-State Readiness Center Addition – ADJ2400000004**

Mr. Pauline:

ZMM Architects and Engineers is pleased to submit the attached information to demonstrate our experience and our qualifications to provide professional architectural and engineering services for the Huntington Tri-State Armory Addition Design project. Established in 1959, ZMM is a West Virginia based, full-service A/E firm, and is noted for design excellence and client focus. It is ZMM's understanding that the project involves providing design and documentation in a Phase 1 design services for an addition to the Huntington Tri-State Readiness Center located in Kenova, WV. The current facility is approximately 30,000 square feet and requires an addition to the current structure to fully support the mission of the facility. Phase 2 will begin once federal funding is secured and will include the remaining 65% of the construction design documents, bidding, and construction administration.

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 electrical), interior design, and construction administration in-house. ZMM strives to put together the best team for each design project, for this reason ZMM and Moonlight Engineering will be teaming together to provide WVARNG with the best team of engineers and architects. Our architects and engineers are highly qualified and have worked together to deliver projects with similar scope and complexity.

As noted above, our ability to provide comprehensive design services will be beneficial to the West Virginia Army National Guard as you undertake the Huntington Tri-State Armory Addition Design project. Utilizing a full team of design professionals will help ensure the quality of the project and will help eliminate risk for the West Virginia Army National Guard.

Perhaps most importantly, the ZMM team has worked collaboratively with the WVARNG on a variety of addition and renovation, including:

- Buckhannon Readiness Center
- Kenova SCIF Project
- MCA – South (3 Phases)
- Camp Dawson Building 202 Renovation
- MCA – Jobs Challenge Facility
- Camp Dawson Building 245 Renovation
- Camp Dawson Building 246 Renovation
- Camp Dawson Building 301 Renovation
- Camp Dawson Building 106

We are hopeful that you observed our commitment to design quality, budget and schedule control, and client service demonstrated on these projects. The members of ZMM's proposed team have provided design and construction phase services on multiple additional WVARNG projects including the Joint Interagency Training and Education Center (JITEC), the Regional Training Institute (RTI), the Kingwood AFRC, as well as the Jackson County AFRC, the Glen Jean AFRC, the CFMO Expansion, the Tackett Family Readiness Center, the Morgantown Readiness Center, and the Logan-Mingo Readiness Center.

BLACKSBURG
VIRGINIA

CHARLESTON
WEST VIRGINIA

MARIETTA
OHIO

MARTINSBURG
WEST VIRGINIA

ZMM.COM

Our experience with the West Virginia Army National Guard's construction program will help us to facilitate the project and improve both the design and construction process. Several of these projects including the CFMO Expansion, the JITEC, and the Logan-Mingo Readiness Center were recognized with design awards. In fact, ZMM's commitment to design quality 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.

ZMM Architects and Engineers has a significant portfolio of projects in the Tri-State area. This experience includes projects for Cabell and Wayne County Schools, the City of Huntington, and Marshall University. Recent projects include planned improvements to the Keith Albee Performing Arts Center and the adaptive reuse of the former Sears store in Huntington Mall into the Woody Williams Center for Advanced Learning.

Thank you for taking the time to review the attached expression of interest that includes information about our proposed approach for the Tri-State Armory HVAC Renovation Project, as well as ZMM's qualifications, and relevant project experience. Additionally, please visit our website at zmm.com to see the full range of renovation projects that we have designed. We appreciate your consideration for this important endeavor and look forward to meeting with you to discuss the project in greater detail.

Respectfully submitted,
ZMM Architects and Engineers



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

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A

FIRM PROFILES

ABOUT ZMM ARCHITECTS & ENGINEERS

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 60 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

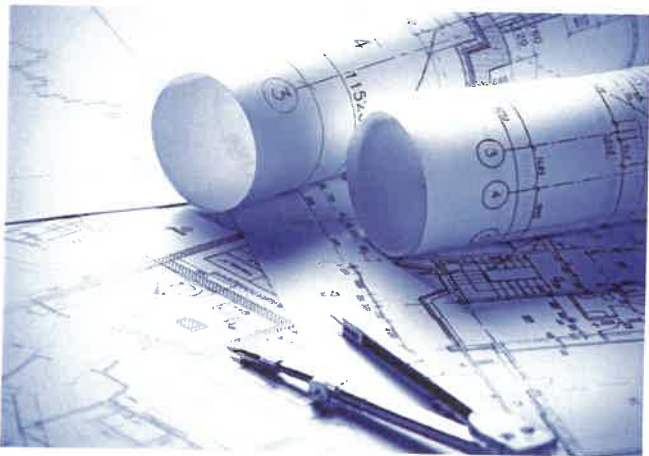
Charleston, West Virginia



ABOUT MOONLIGHT ENGINEERING, PLLC

Moonlight Engineering, PLLC was founded in 2024 in Jane Lew, West Virginia by Trevor Lloyd, PE, and Griffin Sepp, PE.

Trevor Lloyd and Griffin Sepp, both licensed Professional Engineers with degrees in Civil Engineering from West Virginia University and established Moonlight Engineering in 2024. They worked side by side at both a consulting firm and directly for a major developer before forming their own company. Mr. Sepp's deep knowledge of design and Mr. Lloyd's management and problem-solving abilities complement each other perfectly. Their partnership was forged from a shared dedication to delivering efficient engineering solutions that align with clients' business objectives.



Experience and Expertise

Together, Lloyd and Sepp bring a wealth of experience to Moonlight Engineering. With a combined portfolio spanning over one hundred civil engineering projects, they have demonstrated proficiency across various project types and sizes. In the past nine years, they have focused on residential subdivisions and commercial properties, including the development of hundreds of acres for single-family homes, townhomes and small to large retail spaces such as stand-alone structures to entire shopping malls.

Comprehensive Services

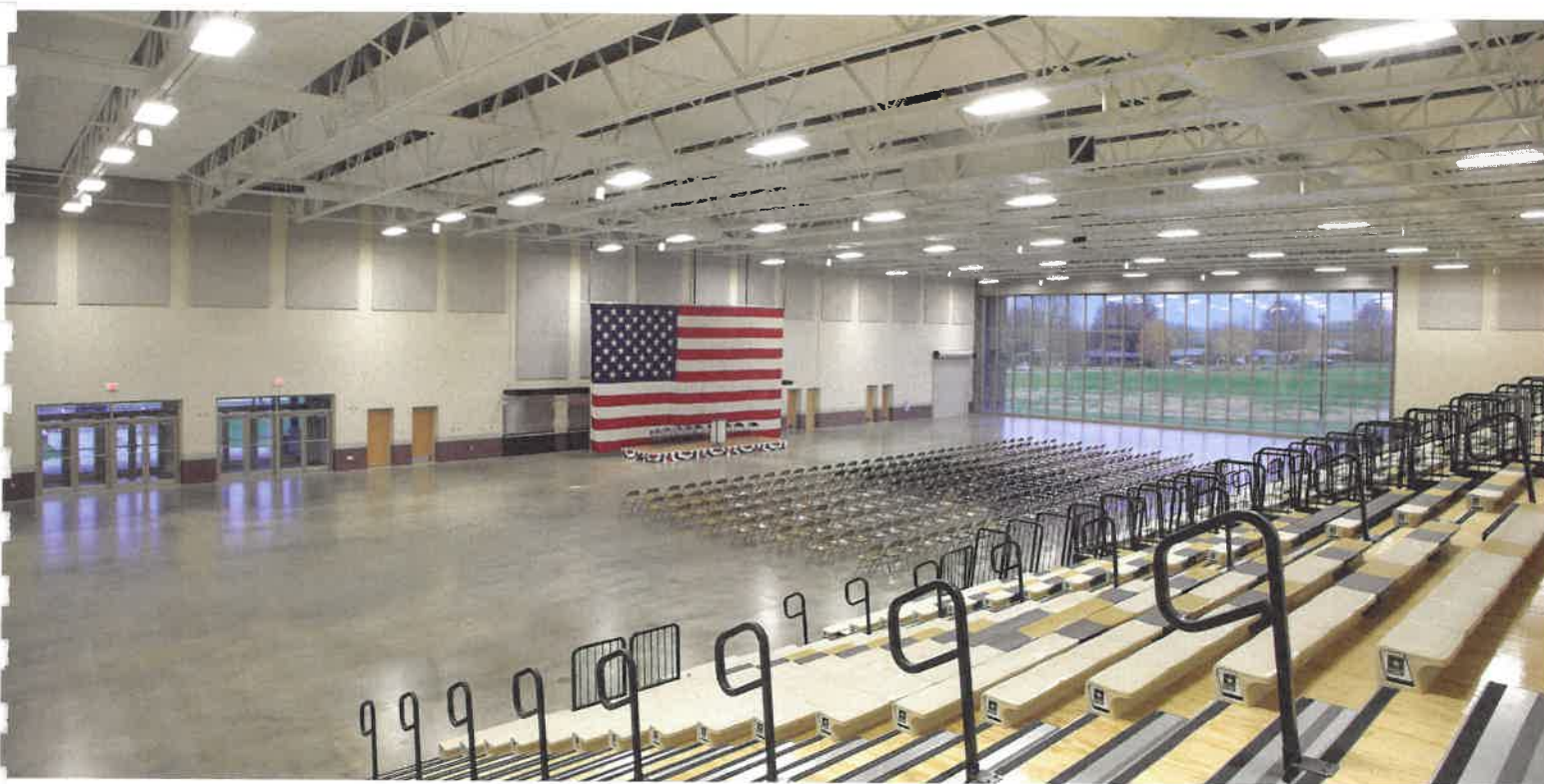
Moonlight Engineering offers comprehensive civil design services encompassing a diverse range of project types. These include residential subdivisions, military facilities, commercial structures, public works, road improvements, and light industrial facilities. Products include full construction and permit documents for site plans, water distribution, sanitary sewer, erosion and sediment control, stormwater management, floodplain analysis, commercial landscaping, and signage plans.

Personalized Approach

At Moonlight Engineering, every project is meticulously handled by Mr. Lloyd and Mr. Sepp. From land evaluation and field survey to concept development, permit acquisition, full design, cost estimation, value engineering, and conflict resolution, they personally oversee every facet to ensure optimal outcomes.

With a commitment to excellence, Moonlight Engineering continues to set industry standards by delivering innovative and effective engineering solutions tailored to meet the unique needs of each client.

Moonlight Engineering, PLLC



B

RELEVANT EXPERIENCE

HVAC RENOVATION EXPERIENCE



Charleston Coliseum & Convention Center (2015) – Replace entire MEP infrastructure three 1,000 ton chillers and cooling towers, three 8,000 mbh gas condensing boilers, approximately ten VAV AHU's, approximately 10 large single zone VAV AHU's.

Charleston Kanawha Health Department (2015) – Replace entire mechanical system to include air cooled chiller, gas fired make-up unit and zone fan coils with electric reheat, approximately 45,000 SF new DDC controls.

United Bank Building – Cooling Tower Replacement (2010) – Two 400 ton centrifugal chillers, rebuild two large VAV AHU's, installed free cooling plate frame heat exchangers (2015).

Kanawha County Public Library (2015) – Replaced two gas-fired boilers with new gas condensing boilers .

Building 5 Capital Complex (2008) – Replaced 10th floor office space air condition, replaced perimeter induction units with new steam chilled water air handling units, distributed VAV terminal units with modification to architectural fit out approximately 22,000 Sf. Installed new sprinkler service entrance for Buildings 5, 6, and 7.

Capitol Complex Building 5, 7th, 8th, & 9th Floors – Rebuild perimeter induction system and interior multi-zone distribution in addition to total architectural fit up, approximately 70,000 SF.

Capitol Complex Building 6, 3rd, 4th, & 5th Floors - Rebuild perimeter induction system and interior multi-zone distribution in addition to total architectural fit up, approximately 70,000 SF.

WV Lottery Headquarters Building (2014 - 2015) – Installed 40,000 SF of new variable refrigerant system, new make-up air system, comprehensive architectural services.

WV State Capitol Cafeteria – Installation of large catering and service kitchen, included steam make-up air system, 3 Class 1 kitchen hoods, Class 2 kitchen hoods, all plumbing system, sprinkler system including sprinkler service entrance for entire Capitol Buildings, comprehensive architectural services.

Old Kanawha Valley Bank Building (2003) - New cooling chiller.
2015) - New cooling tower.

City Center East (2008) Chiller Replacement.

Tenant Fit-Up Numerous Office Buildings Charleston – BB&T Building, City Center East, United National Bank Building, Hunting National Bank Building to include VAV distribution, electrical and architectural services.

HVAC RENOVATION EXPERIENCE (CONT.)



Additional HVAC Projects:

Pleasant Hill Elementary School - HVAC Replacement
Keyser Middle School - HVAC Replacement
Huntington Herald Dispatch - HVAC Study
Walker Machinery Main Office Renovation - HVAC
Walker Diamond Office - HVAC
Walker Machinery - HVAC Renovations
State of WV – Governor's Mansion Corrective HVAC Study
Camp Dawson Regional Training Institute - HVAC
Central Regional Jail – HVAC and Roof Replacement
King of Prussia, PA – HVAC Design (Multiple Projects)
Kanawha Valley Senior Services - HVAC
Tolsia High School - HVAC Renovations
Cabell County Schools – (Multiple HVAC Projects)
Cabell County Career & Technical Center - HVAC
Cabell County Explorer Academy - HVAC
Harrisville Elementary School - HVAC
Ritchie County HS/MS - Cooling Tower Replacement
Spring Hill Elementary School - HVAC
Roane-Jackson Career & Technical Center
Salt Rock Elementary School - HVAC Renovation
Wayne County Schools – New HVAC System Projects
Greenbrier County Schools – New HVAC System Projects
Huntington High School
Cabell-Midland High School



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.





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 office space was developed for dual utilization as an emergency response center in the event of an emergency in the Morgantown area.

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.





JOINT INTERAGENCY TRAINING AND EDUCATION CENTER (JITEC)

LEED
GOLD

LOCATION KINGWOOD, WV	SIZE 283,000 SF	COMPLETION 2013	COST \$100M	AWARDS 2011 AIA WV HONOR AWARD
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ZMM, in association with AECOM, provided architectural and engineering design services for JITEC, an Army National Guard campus-style facility for training and operational mission support.

Sited on 30 acres near Camp Dawson, this project included the design of a new operations building, expansion of the billeting facility, renovation of the training facility, and creation of a new base access control point (ACP) and visitor's center. The vision behind the site design and updated master plan is that of a college campus atmosphere. The facility is designed to meet all anti-terrorism/force protection criteria and has achieved LEED Gold Certification. The operations building is prominently sited as the main focal point upon entering Camp Dawson and consists of four distinct areas: the Joint Operations Center (JOC), a suite of secure training rooms, base headquarters and JITEC administrative offices, and a server and telecommunications room.

Built to SCIF standards, the JOC contains a state-of-the-art command center, housing 48 permanent work stations in a theater-style configuration, facing a large video wall, flanked by conference rooms and offices for both officers and support staff. The billeting (hotel) expansion's lobby design provides a hotel atmosphere, underscored by the Liberty Lounge, an upscale bar and restaurant area, with wood finishes salvaged from the gymnasium floor of the former Preston County Armory.



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JACKSON COUNTY ARMED FORCES RESERVE CENTER

LOCATION MILLWOOD, WV	SIZE 75,000 SF	COMPLETION 2011	COST \$20M
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The building design was inspired by the adjacent Georgian-style Order of the Eastern Star facility.

The primary user for the WVARNG will be DET 1 821st Engineering Company, supported by a FSC of the 1092nd. USAR occupants include PLT AMMO 261 OD and PLT 1 (Postal) and PLT 6 (Postal) of the 44th Personnel Company. An expanded drill hall serves as a convention and meeting space. The relationship between the structures became crucial to the site layout. Once the aesthetic of the building was established, the massing of the facility was defined by breaking down the facility into smaller mass elements. The larger programmatic elements, such as the drill hall and the storage areas, employ an aesthetic that more closely implies their function.

The layout of the facility includes a main entry with the recruiting, family support, and administrative areas located on separate sides. A transverse wing houses all functions that have the potential for public use, while all primary military spaces developed along a similar perpendicular wing. This allows for separate entries to be developed for public functions, while the remainder of the facility can be secured. The layout also creates a large central courtyard, or parade field, that would be located at lower grade to define the edge facing the river. This edge is defined by a canopy that connects storage and locker areas to the expanded drill hall.





CHARLESTON COLISEUM & CONVENTION CENTER

LEED
SILVER

LOCATION	SIZE	COMPLETION	COST	AWARDS
CHARLESTON, WV	283,000 SF	2018	\$100M	2019 AIA WV HONOR AWARD, CITATION & PEOPLE'S CHOICE AWARD

The Charleston Coliseum & Convention Center expansion and renovation was a transformational project for both the city of Charleston and West Virginia.

Our team built on the strong authentic character of Charleston to remake the Charleston Convention Center into a more efficient, sustainable, dynamic, and iconic best-in-class destination.

The design of the expansion and renovation of the Charleston Convention Center was inspired by the story of West Virginia. Defined by a rugged landscape, the early history of the state was dominated by extractive industries: salt, coal, timber, and trapping. This set the local character. Our design started with an organizational concept inspired by this history. The Convention Center has distinct active nodes to celebrate each activity; arena, convention, and banquet. These nodes are connected like the hills and cut-rock faces that are seen throughout the state, as people work to connect to each other through the landscape. The first critical design objective was to create separate entries and identities for the arena and convention center. This allowed for simultaneous events and clarity of use. For the Convention Center to thrive, it needed a real ballroom assembly space. Located overlooking the Elk River, the ballroom pre-function space is the most dramatic feature of the center.



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WEST VIRGINIA STATE CAPITOL

LOCATION | COMPLETION
CHARLESTON, WV | 2007-2021

ZMM Architects & Engineers has completed a variety of improvement project to the State of West Virginia Capitol Building.

The improvements included a renovation to the lower-level food court, a roofing replacement, toilet renovations, and various HVAC improvements – including a project to increase safety during the Covid-19 pandemic. The food court renovations included a full-service kitchen, self-serve area, and seating for 300 people. ZMM worked with a kitchen consultant and provided demolition drawings, base architectural, mechanical, and electrical drawings. The project also included the design of the first phase of a wet pipe sprinkler system. In addition, ZMM also provided the documents to replace the Capitol medium-voltage transformers. ZMM met a stringent timeline for a critical construction completion date.

ZMM replaced the roof of the Capitol Building, which included the main buildings, connectors, and base of the dome. All roof system components were reviewed for integrity and ability to control moisture collection and removal. The components included in the project were parapet walls, railings, wall conditions, colonnades, roof penetrations, roof drains, roof equipment, and walking surfaces. Additional projects included improvements to the Senate toilets, a report that mapped all of the mechanical equipment in Capitol Building, and various mechanical improvements to make portions of the Capitol more safe for occupants during the pandemic.



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MARSHALL UNIVERSITY MULTIPLE PROJECTS

LOCATION HUNTINGTON, WV	SIZE VARIOUS	COMPLETION ONGOING
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ZMM has significant experience providing Architectural and Engineering services to Marshall University.

Smith Hall Renovation

This 22,000 SF renovation project was completed in 2017 and included interior finish and acoustical upgrades to improve the quality of the music practice rooms and additional performance areas. ZMM worked closely with Marshall University professors to determine the correct acoustics to meet the accreditation needs for the college. Taking inspiration from The Thundering Herd, the building was transformed with a mature palette and pops of green. Interior improvements included replacement of ceilings in areas that were affected by the HVAC replacement. Existing ceilings in the practice rooms received a sound blanket barrier and acoustical coating to improve the performance of the space. Paint, carpet and acoustical wall treatments were also installed.

Mechanical system improvements were implemented to correct issues of the aging HVAC system, which was a high-energy user. ZMM converted the system to VAV by installing terminal units with SCR electric reheat. A smaller electric coil provided enough electrical capacity to power the terminal reheat. ZMM retained the fan wall and chilled water coil and installed DDC controls. Dehumidification was provided by a gas-fired humidifier to maintain stable humidity. Additional projects at Smith Hall Include:

- Building Assessment
- Cooling Tower Replacement
- Underground Chilled Water Piping



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Marshall University (cont.)

- Retrofit AC Smith Hall Music Building - Dual Duct VAV Humidified Building

Drinko Library

- Mechanical and Electrical Assessment in 2022
- Cooling Tower

Morrow Library

- Underground Chilled Water Piping

IT/OT Security OP Center

- Development of the New Cyber Security Command Center

Sorrell Maintenance Building

- Air Conditioner Replacement

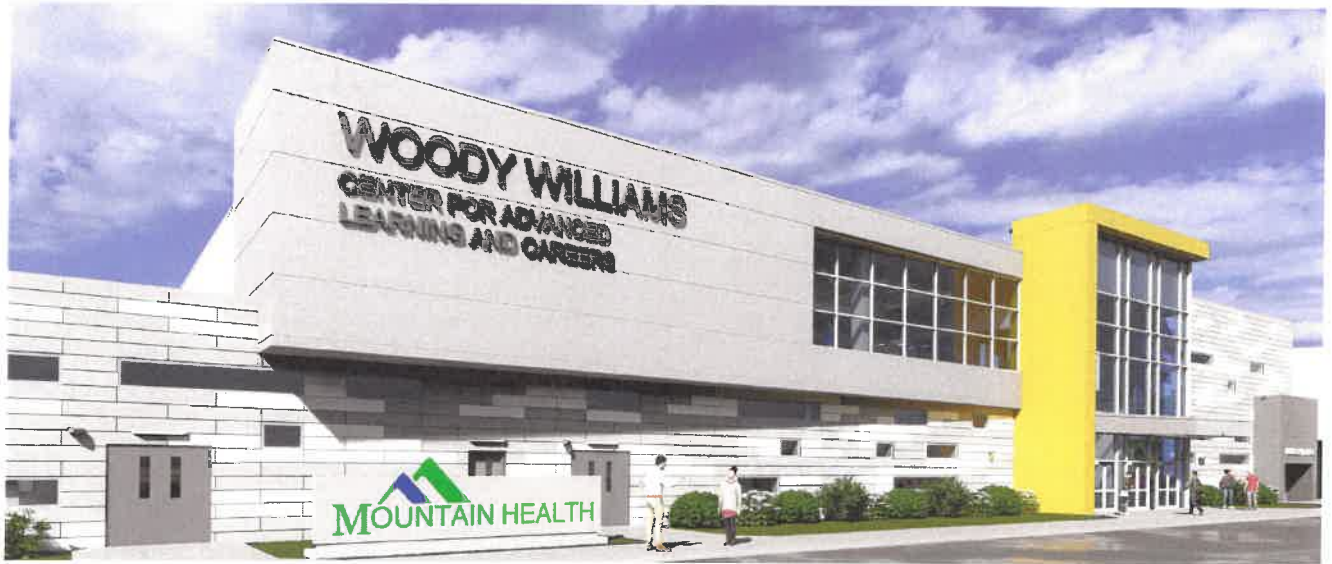
Applied Engineering Building

- Chiller Consulting

Pritchard Hall

- Chiller Replacement





WOODY WILLIAMS CENTER FOR ADVANCED LEARNING AND CAREERS

LOCATION BARBOURSVILLE, WV	SIZE 230,000 SF	COMPLETION TBD	COST \$40M EST.
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The new Cabell County Career and Technology Center is one of six projects funded through a bond passed by Cabell County voters in 2020.

This project was renamed the Woody Williams Center for Advanced Learning and Careers and converts the existing abandoned 230,000 sf SEARS Store at the Huntington Mall. This innovative educational center will help prepare students for the workplace through a variety of pathways in career and technical fields.

The facility will be host to more traditional programs such as Auto Mechanics, Collision Repair, Welding, Machine Tool Technology, HVAC, Electrical, Carpentry, Building Facility Maintenance, Masonry, Plumbing, Culinary Arts, and Cosmetology. In addition to the traditional programs' students will have the opportunity to explore other options such as Vocational Agriculture, Graphic Design, Law and Public Safety, Medical Assisting, LPN, Coding, and Aerospace Engineering. Students will also have the option to take associated classes at their home high school or have the option to remain at the Career Center the entire day and take all their classes at that location.

The facility will also have a Multipurpose Room so students can meet all their PE credits, Meeting Rooms for events and county wide meetings, and a full Kitchen and Dining area for students as well as a rooftop dining space. Collaborative spaces for students to gather are scattered throughout the facility. Graduates can also attend as a year fourteen student and participate in several selected programs. The facility will also be open after school hours for hobby classes and adult programs.



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Woody Williams Center (cont.)

The existing painted masonry façade will be clad in multicolored metal panels and horizontal windows. The existing main entrances will be removed and reimagined with a two-story glass façade that stretches into the existing building and terminates into a lecture stair adjacent to a live green wall. The two-story entrance corridor will be the focal point of the interior space, highlighting the classrooms that overlook the entrance corridor. All classrooms and lab areas will have a glass entrance to showcase the technology and career learning that goes on inside the space.

This is a groundbreaking project for Cabell County Schools and education design in West Virginia that reimagines an abandoned retail store into a career academy showcasing technology and career education for high school students and adult education.





C

TEAM QUALIFICATIONS



ADAM KRASON

AIA, LEED AP, ALEP

Principal

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 and energy efficiency and has participated and presented at sustainable design seminars throughout the region. Mr. Krason also serves on the Board of Directors and is responsible for firm management, business development, and corporate philanthropy at ZMM. In addition to his role at ZMM, Mr. Krason is actively engaged in his community, serving on a variety of statewide and local civic and non-profit boards.

EDUCATION

Bachelor of Architecture
The Catholic University of America, 1998

Bachelor of Civil Engineering
The Catholic University of America, 1997

LICENSURE

Virginia, West Virginia, Ohio, Kentucky,
Maryland & New Jersey

AFFILIATIONS

Association for Learning Environments

WV Board of Architects, President

American Institute of Architects,
Strategic Council

Charleston Area Alliance, Board Chair

Goodwill Industries of Kanawha Valley,
Past Board Chair

Clay Center, Advisory Board

WV Symphony Orchestra, Board of Directors

Charleston Main Streets, Board of Directors

Charleston Municipal Planning Commission

Charleston Historic Landmarks Commission

Education Alliance, Board Chair

PROJECT EXPERIENCE

Capital Sports Center Conceptual Design - Charleston, WV

The Clay Center for the Arts and Science (Multiple Projects) - Charleston, WV

State Office Building #5, 10th Floor Renovation (Office of Technology) - Charleston, WV

Charleston Coliseum and Convention Center - Charleston, WV

Girl Scouts of Black Diamond Council - Charleston, WV

Goodwill Prosperity Center - Charleston, WV

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

Wood County Justice Center - Parkersburg, WV

Wood County Resiliency Center - Parkersburg, WV

Construction and Facilities Management Office (WVARNG) - Charleston, WV

Shawnee Sports Center - Institute, WV

Joint Interagency Training and Education Center (WVARNG) - Kingwood, WV

Christ Church United Methodist - Charleston, WV



EDUCATION

Bachelor of Architecture
University of Tennessee, 2007

LICENSURE

West Virginia

AFFILIATIONS

WV Chapter, American Institute of Architects,
Member

Nathan Spencer

AIA

Project Architect

Mr. Spencer is responsible for coordinating the efforts of the design team in preparing thorough and clear design documents. He has experience in all phases of design working on a wide range of building types including; military, educational, office, justice, and residential.

He has worked on several projects that are currently pursuing LEED certification. In addition to production, Mr. Spencer, is also experienced in 3d modeling. He has worked on several preliminary concept study models as well as high quality renderings and 3d models later in the design process. Mr. Spencer is also experienced in high quality physical models.

Mr. Spencer began his career in architecture with ZMM in 2003, working as a summer intern. After graduating in 2003, he began working at ZMM full time.

PROJECT EXPERIENCE

Kenova AFRC SCIF Building - Kenova, WV

Logan-Mingo Readiness Center - Holden, WV

Jackson County AFRC - Millwood, WV

Joint Interagency Training and Education Center (JITEC) - Kingwood, WV

Buckhannon Readiness Center - Buckhannon, WV

Parkersburg Readiness Center (not built) - Parkersburg, WV

Marshall Readiness Center - Moundsville, WV

AASF #1 and #2 Hangar Additions

Mountaineer Challenge Academy South - Montgomery, WV

Morgantown Readiness Center - Morgantown, WV

Highland Hospital - Charleston, WV

Charleston Coliseum & Convention Center - Charleston, WV

Shawnee Sports Center - Institute, WV

Tucker County Courthouse Annex - Parsons, WV

Judge Black Courthouse Annex - Parkersburg, WV

Intuit Prosperity Hub - Bluefield, WV

EXPERIENCE OF MOONLIGHT ENGINEERING

Trevor Lloyd, P.E.

Mr. Lloyd, brings a wealth of diverse experience to Moonlight Engineering. His background includes regulatory engineering at the municipal level, architectural engineering for federal buildings, military engineering worldwide, and private sector design engineering in West Virginia. He currently serves as a Lieutenant Colonel in the West Virginia National Guard, assigned as the Battalion Commander of the Regional Training Institute in Camp Dawson, WV. During his tenure in the WV National Guard, he has led multiple engineering and survey missions in dozens of countries to meet mission requirements. Mr. Lloyd also holds the role of Engineer of Responsible Charge for ILA Properties, Inc. and Moonlight Engineering, PLLC.



Griffin Sepp, P.E.

Mr. Sepp possesses a deep knowledge of civil design. An expert at computer aided drafting and stormwater analysis software, he quickly rose through the ranks and obtained the title of Design Manager. He has led teams of engineers for large scale residential and commercial developments for both a private consulting firm and a major developer. His recent design portfolio includes the infrastructure and site design for the Middletown Commons redevelopment project in Fairmont, WV leading to the successful completion of a challenging project. He was also the lead designer for the Hunter Hills Subdivision in Jefferson County, the largest and most complex subdivision the County has approved in the past 20 years.



CARLY CHAPMAN

Director of Interior Design



EDUCATION

Bachelor of Interior Design
University of Charleston - 2012

AFFILIATIONS

Association for Learning Environments

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.

PROJECT EXPERIENCE

Wood County 911 Call Center - Parkersburg, WV

Intuit Prosperity Hub - Bluefield, WV

Goodwill Industries - Parkersburg, WV

WV State Capitol Senate Bathroom Renovations - Charleston, WV

State Office Building #6 Renovations - Charleston, WV

Charleston Coliseum and Convention Center - Charleston, WV

Capital Sports Center - Charleston, WV

Charleston EDGE - Charleston, WV

Valley Park Community Center - Hurricane, WV

Pipestem Resort State Park Lodge Interior Renovations - Pipestem, WV

Cabell County Career and Technical Center - Huntington, WV

WV School of Osteopathic Medicine Multiple Projects - Lewisburg, WV

Wood County Schools - Wood County, WV

- Williamson Elementary School

- Wood County Tech Center

Nicholas County Schools - Nicholas County, WV

- Nicholas County High School / Summersville Middle School / NCCTC

- Cherry River Elementary / Richwood Middle School



CARLIE RAY

Senior Interior Designer

Carlie serves as an Interior Designer at ZMM. She is a detail-oriented and creative professional with extensive knowledge in interior architecture. Carlie's goal with every project is to create a beautiful and functional environment that suits the client's needs.

As an interior designer, her background includes commercial properties, education, healthcare, historic adaptive reuse, residential properties, existing building renovations, and hospitality design. She has experience managing a variety of project elements: interior space planning, finish and fixture selection, creating concept presentations, rendering 3D models, and producing construction documents to ensure that each project seamlessly transitions from concept to reality.

EDUCATION

Bachelor of Science in Interior Design
West Virginia University, 2017

AFFILIATIONS

NCIDQ Certification ID#35513

West Virginia University - Interior
Architecture Advisory Board Member

PROJECT EXPERIENCE

Capital Sports Center - Charleston, WV

National Weather Service Building - Charleston, WV

Coonskin Park Clubhouse Renovations - Charleston, WV

WVDNR Cooper's Rock - Morgantown, WV

WVDNR Beech Fork State Park Cabins - Lavalette, WV

KRT New Laidley Transit Ticket Booth - Charleston, WV

Wood County Resiliency Center - Parkersburg, WV

WVARNG Buckhannon Readiness Center Addition - Buckhannon, WV

Goodwill Industries - Parkersburg, WV

Salvation Army - Beckley, WV

Steptoe & Johnson Law Office Renovation - Charleston, WV

Premier Bank - Spencer, WV

Williamson Health and Wellness Renovation - Williamson, WV

New River Health Medical Mall - Fayetteville, WV

WVSOM Community Health Center - Lewisburg, WV

Cabell County Career and Tech Renovation - Huntington, WV

Staats Building Renovation - Charleston, WV

WV School for the Deaf and the Blind Renovations - Romney, WV



JOHN PRUETT

PE, LEED AP

Senior Mechanical Engineer

Mr. Pruett is responsible for overseeing the design of the HVAC systems, ensuring that the HVAC systems meet the program requirements, and 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. Mr. Pruett coordinates with other disciplines 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 engineering career with a manufacturing company in 1994. In 1998, he made a career change and joined an engineering consulting firm. He has a broad range of experience in HVAC systems design, including: government, education, office buildings, 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

EDUCATION

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

LICENSURE

West Virginia, Virginia, Indiana
LEED Accredited Professional

AFFILIATIONS

American Society of Heating, Refrigerating
and Air-Conditioning Engineers (ASHRAE),
Member

United States Marine Corps – 14 Years

PROJECT EXPERIENCE

WV Army National Guard - WV

- Camp Dawson Building 106
- Camp Dawson Building 245
- Camp Dawson Building 246
- Camp Dawson Building 301
- Camp Dawson Mail Facility
- Marshall County Readiness
- Camp Dawson Job Challenge Academy

WVDNR District 5 Headquarters - Alum Creek, WV

WV State Police Headquarters - So. Charleston, WV

Wood County Resiliency Center - Parkersburg, WV

WV State Capitol Renovations - Charleston, WV

General Services Division Surplus Property - Dunbar, WV

WV Housing Development Fund Office Building - Charleston, WV

Tucker County Courthouse Renovations - Parsons, WV

Gilmer County Courthouse Renovations - Glenville, WV

St. Margaret's Judicial Center 3rd Floor Renovations - Martinsburg, WV

Jackson County Maintenance and Transportation - Ripley, WV

Jackson County EMS Building - Ripley, WV



EDUCATION

Bachelor of Science
Old Dominion University, 2019

Associate of Applied Science
New River Community College, 2016

LICENSURE

West Virginia
Virginia

FRANKIE KANTSIOS

PE

Electrical Engineer

As an electrical engineer, Mr. Kantsios is consistently motivated to adapt to the team's needs in assessing and finalizing the project on time. He is an experienced professional with a proven record of managing projects from concept to completion while staying versatile to the specific project at hand. By carrying out engineering and design services for a diverse field of projects since 2013, Mr. Kantsios has expanded his knowledge and understanding of the industry; providing him with the means to meet the clients' needs for each individual program. He has been actively involved in the design of a wide array of new structures and renovations to include K-12 educational buildings, higher education buildings, healthcare facilities, office buildings, banks, restaurants, hotels, automotive dealerships and service centers, apartment complexes and dorms, industrial facilities and warehouses, and athletic facilities. Whether working independently or in conjunction with other architects, engineers, and contractors, Mr. Kantsios excels at creating effective solutions and developing opportunities that further establish organizational goals.

PROJECT EXPERIENCE

Carilion New River Valley Medical Center - VA

- Cardiology Expansion
- Infusion Clinic Alterations

HCA Healthcare - VA

- LewisGale Hospital Montgomery - 3rd Floor Graduate Medical Education Center

InnovAge PACE - VA

- New Richmond Facility
- New Roanoke Facility
- Roanoke Facility Study

Bath Community Hospital - VA

- New Pharmacy Building*

New Triumph Baptist Church - VA

Frederick County Sunny Side Voter Registrar's Office- VA

- A.S. Rhodes Elementary School Renovations

New River Community College - VA

- ADA Accessibility Improvements

City of Covington City Hall Renovations - VA*

Pulaski County Administration Building Renovation - VA*

**Previous Employer Experience*



MIKE FLOWERS

Plumbing Designer / Mechanical Technician

Mr. Flowers is responsible for the design of Plumbing systems, ensuring that the systems are designed to meet the needs of the owner and utilize the latest plumbing technologies to provide the most energy efficient design possible. Mr. Flowers has participated on several LEED registered projects; one of his key contributions to these projects is selecting plumbing fixtures and accessories in his design that require less utility consumption, so significant utility savings are passed on to the owner and the environment as well.

Mr. Flowers has had extensive experience in the field of construction where he frequently visits ZMM's current projects under construction and thoroughly checks the contractors work to ensure compliance with project specifications and construction documents.

EDUCATION

Associate in Mechanical Drafting and Design; 1990, Ben Franklin Career and Technical Center

Associate in Electronics Technology; 1987, Putnam Career and Technical Center

Associate of Science; 1988, West Virginia State University

Completed Dale Carnegie course in Effective Communications and Human Relations and Skills for Success

PROJECT EXPERIENCE

WVARNG - WV

- **Morgantown Readiness Center**
- **Logan-Mingo Readiness Center**
- **Jackson County AFRC**
- **Mountaineer Challenge Academy**
- **Buckhannon Readiness Center**
- **Buildings 202, 246, and 301**
- **Camp Dawson Mail facility**

WV State Capitol Senate Bathroom Renovations - Charleston, WV

Tucker County Courthouse - Annex - Parsons, WV

Wood County Justice Center - Parkersburg, WV

WV State Police Headquarters Building Renovation - So. Charleston, WV

Goodwill Industries - Parkersburg, WV



KEITH L. GONZALES

Construction Administrator

Mr. Gonzales describes his role with ZMM as Construction Administrator as an exciting and challenging opportunity with new experiences every day. From varying jobsite conditions to the differing professionals, he works with daily, Mr. Gonzales approaches construction administration with over 40 years' experience in the construction industry and the desire to help provide the best outcomes possible for each project.

Mr. Gonzales prior to coming on board with ZMM oversaw the CAD/BIM coordination and design of major projects in the Columbus area. Mr. Gonzales project variety includes Educational (K-12 and University), Commercial, Military, Office, Justice (Courthouses, Justice Centers), Healthcare (Health Departments), Roof replacement projects.

EDUCATION

Associate Degree, Mechanical Engineering
Pittsburgh Technical Institute - 1978

PROJECT EXPERIENCE

Wood County Resiliency Center - Parkersburg, WV

Wood County Courthouse - Bell Tower Renovation - Parkersburg, WV

WV State Office Buildings 5, 6, & 7 - Charleston, WV

Charleston Coliseum and Convention Center - Charleston, WV

Girl Scouts of Black Diamond Renovation - Charleston, WV

Christ Church United Methodist - Charleston, WV

National Weather Center Building (NOAA) - So. Charleston, WV

WVDNR - Pipestem State Park Resort Renovations - Pipestem, WV

WVDNR - Claudia Workman Fish and Wildlife Education Center - Alum Creek, WV

BOYD CAT- Nitro and Belle Locations, WV

YMCA Sojourners Shelter - Charleston, WV

BridgeValley CTC Nursing Wing Renovation - So. Charleston, WV

New River Health Medical Center Renovation - Oak Hill, WV

Valley Health Systems - Huntington, WV



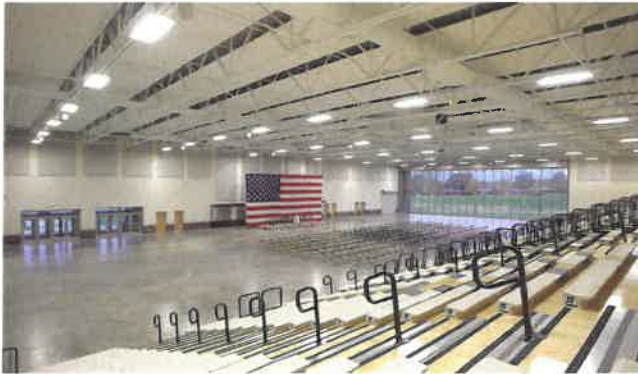
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PROJECT APPROACH

PROJECT APPROACH

BACKGROUND

Based upon ZMM's understanding of the information contained in the request for expression of interest, the project involves providing design and documentation in a Phase 1 design services for an addition to the Huntington Tri-State Readiness Center located in Kenova, WV. The current facility is approximately 30,000 square feet and requires an addition to the current structure to fully support the mission of the facility. Phase 2 will begin once federal funding is secured and will include the remaining 65% of the construction design documents, bidding, and construction administration.



The technical nature of an addition project demonstrates the need for a full-service design team with experience providing design services for the WVARNG. ZMM has the technical professionals - including architects, interior designers, and engineers (mechanical, plumbing, and electrical) - needed to address every aspect of this WVARNG project. ZMM strives to put together the best team for each design project, for this reason ZMM and Moonlight Engineering will be teaming together to provide WVARNG with the best team of engineers and architects. If selected for this engagement, ZMM will staff the project with the architects and engineers that have previously worked successfully on a variety of projects for the WVARNG, including the Camp Dawson Barracks Building 246 Renovation, the Camp Dawson Building 301 Renovation, the Camp Dawson Building 202 Improvements, the MCA-South, the MCA - Job Challenge Facility, the Kenova Secure Area, and the CFMO Expansion.

DESIGN APPROACH

Addition projects require a unique approach due to providing an extension to an existing facility requiring the input of a variety of team members including architects, mechanical engineers, and interior designers.

The first phase in a successful addition project involves conducting a thorough examination of the existing facilities to identify deficiencies and opportunities, while confirming the project scope and budget. The purpose of the investigation is to determine the condition of the major building systems, and to validate the proposed project scope and budget. ZMM will commence the investigation by developing as-built plans of the existing facility. Once these plans are complete, ZMM will conduct a facility evaluation of the portion of the facility to receive the new addition with a team of architects and engineers, in conjunction with WVARNG personnel. The proposed addition will also be reviewed with the State Fire Marshal.

Once the first phase is completed, ZMM will develop plans, specifications, and bidding documents for the proposed improvements. Drawings, specifications, and estimates will be submitted for review at 35% (as noted above), and again at 65%, 95%, and 100% once federal funding has been secured and Phase 2 of the project begins. Our recent experience working with WVARNG will ensure that all documents meet your requirements and standards - saving the WVARNG additional effort and expediting the design phase of the project. 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 the WVARNG team, with the objective of ensuring the seamless delivery of your project.



D. Project Approach and Understanding (cont.)



PROJECT MANAGEMENT PLAN

ZMM Architects and Engineers proposes to provide services on the project with a team of design professionals that have worked together on a variety of WVARNG facilities throughout the state. The team will be led by Adam Krason (Principal) and Nathan Spencer (Project Manager and Architect). Mr. Krason and Mr. Spencer have led ZMM's effort on our recent work for the WVARNG. ZMM's team has successfully collaborated on multiple projects for the WVARNG, and each team member is familiar with the standards, requirements, and processes that are utilized by the Guard.

ZMM QUALITY CONTROL PLAN

Quality control during the design phase begins with the selection of team members with experience working on projects that are similar to the current effort. ZMM Architects and Engineers staff possesses the WVARNG design experience to ensure the success of the project. Quality control during the design phase will occur through regular, documented, project meetings between the design team and the Guard. In addition to the regular design phase meetings more formal QA/QC will occur at the end of each design phase. A more detailed description of the design phase quality control plan is noted below:

1. Selecting the Project Team

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

2. Identifying Project Requirements

Project team members are fully integrated in each phase of the design process, ensuring a quality project from the commencement. The project requirements are included in a 'Basis of Design' that each member of the project team can access. The 'Basis of Design' helps guide important project decisions.

3. Identifying Client Expectations

Knowing and understanding our clients' expectations is our goal. This knowledge gives ZMM a baseline for exceeding expectations. We will commence the design effort with a planning session to help identify your vision for the project.

D. Project Approach and Understanding (cont.)

4. Ongoing Project Reviews

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

Phase 1:

Design Phase (35%)

Phase 2:

Development Phase (65%)

Construction Documents Phase (95%)

Construction Administration Phase

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

5. Post Project Review

At the completion of every project, ZMM staff members participate in a learning session to gain insight useful for future projects. ZMM will also conduct an 11-month warranty inspection with the WVARNG to ensure that all systems are operating as designed, and to facilitate any final work with the contractor.



6. Staff Training, Assessment and Enhancement

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

ZMM COST CONTROL PLAN

As part of our effort to ensure our ability to meet WVARNG's budget, ZMM will rely on both historic bidding data (for restroom/shower renovation projects) as well as independent estimates to verify the project budget. For this project ZMM would utilize Win Strock to provide the independent estimate. ZMM and Mr. Strock have successfully collaborated on multiple projects, including:

- Camp Dawson Building 246 Improvements
- Camp Dawson Building 301 Improvements
- Camp Dawson Building 202 Improvements
- Mountaineer Challenge Academy - South
- Logan-Mingo Readiness Center
- Parkersburg Readiness Center
- Building 5, 6, & 7 Improvements
- WVDNR District 5 Office
- WVDNR Claudia Workman Fish & Wildlife Education Center
- Beech Fork Lodge
- West Virginia State Police Information Services Center
- West Virginia State Lottery Headquarters Renovation



ZMM has a history of working to successfully bring projects under challenging budget and schedule constraints for the WVARNG. We commit to working with you to meet the budget and schedule for the Huntington Tri-State Readiness Center Addition Design project.



E

CLIENT REFERENCES

CLIENT REFERENCES



Robert Kilpatrick, Deputy Director
General Services Division of WV
304.352.5491



Bradley Leslie, PE, Assistant Chief
(retired)
WVDNR - State Parks Section
324 4th Avenue
So. Charleston, WV 25303
304.389.7663 cell



Todd Reynolds, Deputy Branch Chief
WVARNG
1707 Coonskin Drive
Charleston, WV 25311
304.380.7226 cell



Thank You

FOR REVIEWING THIS MATERIAL.

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