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State of West Virginia Centralized Expression of Interest

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BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION 2019 WASHINGTON ST E

CHARLESTON WV 25305

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Vendor Customer Code:

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

Address:

VENDOR

Street: 222 Lee Street West

City: Charleston

State: WV Country: USA Zip: 25302

Principal Contact: Adam R. Krason, AIA, Principal

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# 55-0676608

DATE 06/04/2024

All offers subject to all terms and conditions contained in this solicitation

 Date Printed:
 May 17, 2024
 Page: 1
 FORM ID: WV-PRC-CEOI-002 2020/05

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 R. Krason, AIA, Principal
(Address) 222 Lee St W / 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contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise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, Inc. (dba ZMM Architects and Engineers)		
AL RI		
(Signature of Authorized Representative)	
Adam R. Krason, AlA, Principal	06/04/2024	
(Printed Name and Title of Authorized I (304) 342-0159 / (304) 345-8144	Representative) (Date)	=
(Phone Number) (Fax Number)		
ark@zmm.com		
(Email Address)		





EXPRESSION OF INTEREST

To Provide Professional Architecture/Engineering Services:

WV ARMY NATIONAL GUARD

CHILD DEVELOPMENT CENTER HVAC RENOVATION PROJECT

JUNE 4, 2024 ADJ2400000002

ZMM.COM



June 4, 2024

Mr. David Pauline, Buyer Supervisor Department of Administration, Purchasing Division 2019 Washington Street, East PO Box 50130 Charleston, West Virginia 25

Subject: Expression of Interest to Provide Architectural/Engineering Design and Construction Phase Services for WVARNG Child Development Center HVAC Renovations Project - CEOI 0603 ADJ2400000002

Mr. Pauline:

ZMM Architects and Engineers is pleased to submit the attached information to demonstrate our experience and our qualifications to provide professional design and construction phase services for the proposed renovation and replacement of the HVAC systems and equipment at the Child Development Center located at the WV Army National Guard Base Coonskin Complex. Established in 1959, ZMM is a Charleston based, full-service A/E firm, and is noted for design excellence and client focus. With over sixty-five employees ZMM provides an integrated design approach by delivering all building related design services including architecture, engineering, interior design, and construction administration in-house. ZMM understands this project will consist of the current HVAC equipment being redesigned to better support the needs of individuals utilizing the facility.

ZMM is a longstanding partner of the WVARNG, specifically on the Coonskin Campus. ZMM has worked collaboratively with the WVARNG on the Air National Guard Headquarters, the CFMO, and the Tackett Family Readiness Center. The ZMM team has worked on a variety of renovation projects that included HVAC replacements:

- MCA South
- Camp Dawson Building 202 Renovation
- MCA Jobs Challenge Facility
- Camp Dawson Building 245 Renovation
- Camp Dawson Building 246 Renovation
- Camp Dawson Building 301 Renovation

We are hopeful that you observed our commitment to design quality, budget and schedule control, and client service demonstrated on these projects.

Our architects and engineers are highly qualified and have worked together to deliver projects with similar scope and complexity. Additionally, ZMM's mechanical engineers are industry leaders that are involved in helping to develop strategies and best practices for HVAC related design issues on both the local and national level. Their experience includes designing mechanical systems in some of West Virginia's most prominent buildings including the State Capitol, the Clay Center for the Arts and Sciences, the Keith Albee Performing Arts Center in Huntington, and the Charleston Coliseum and Convention Center.

ZMM's engineering team will be led by John Pruett, PE. Mr. Pruett, ZMM's senior mechanical engineer, brings several years of mechanical design experience to the project. Although the project is primarily engineering related, ZMM's process is to assign an architectural project manager to each project to coordinate the engineering disciplines, address any building and life safety code issues, and interface with the client. For this engagement ZMM intends to utilize Nathan Spencer, AIA as the project architect.

Thank you for taking the time to review the attached expression of interest that includes responses to the specific information requested in the EOI, 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 the opportunity to discuss the project in greater detail.

Respectfully submitted, ZMM Architects and Engineers

Adam Krason, AIA, NCARB, LEED-AP

Principal



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FIRM PROFILE

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 inhouse 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















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PROJECT APPROACH

PROJECT APPROACH

PROJECT UNDERSTANDING

Based upon information provided in the Expression of Interest, ZMM understands that the WVARNG needs to have the HVAC equipment at the Child Development Center, located in Charleston at the Coonskin Campus, renovated and replaced. The facility HVAC needs to be replaced due to the existing HVAC equipment being inadequate. The facility is used by the children, students, and staff personnel of the Center. The facility will be renovated to support elements of the West Virginia Army National Guard Command.

ZMM has provided design services on a variety of similar projects for the WVARNG to include the renovation and replacement of the HVAC systems for MCA South, MCA Jobs Challenge Facility, Camp Dawson Building 202, 245, 246, and 301. ZMM has provided architectural and engineering services on the same Coonskin Campus for the Air National Guard Headquarters, the CFMO, and the Tackett Family Readiness Center.



PROJECT GOALS/OBJECTIVES

- 1. Provide a complete design including all engineering, including mechanical, electrical, and plumbing and architectural disciplines to prepare construction bid documents for West Virginia State Purchasing. Key design elements include utilizing energy efficient, economically and maintenance friendly equipment.
- 2. Designer to be responsible for researching and investigating the location of existing utilities, and to provide drawings and specifications of any and all aspects of project as needed and directed by the owner and or state agency, utility company, or other approval authority for Charleston, West Virginia.
- 3. Drawings and specifications are to be submitted at each significant phase, cost estimates are to be revised and submitted with each submittal at key phases.
- 4. Provide construction bid services and administrative services to the owner-



PROJECT APPROACH (CONT.)

PROJECT APPROACH

ZMM Architects and Engineers recommends the following approach to items to be discussed during the meeting include:

- Review Issues with the Current HVAC Systems
- Review the Proposed Scope of Work
- Review the Project Budget and Schedule
- Review Project Constraints (Facility to remain Operational Throughout Construction)
- · Discuss Energy Efficiency Objectives



Following the on-site meeting, ZMM would commence the investigative phase of the project. The investigative work and research for the project will ensure a cost-effective, well-designed solution that will help eliminate changes or other issues during the construction phase. ZMM will also discuss potential HVAC system options with key stakeholders. Our evaluation will include:

- Conduct an In-Depth Study of Any Existing Drawings and Site Conditions Relative to the HVAC Systems
- Review all HVAC Components for Integrity
- Conduct Destructive Testing where Required
- Consider HVAC System Performance/Insulation Requirements
- Discuss Various HVAC Systems Including Initial Cost and Life Cycle Cost
- Work with WVARNG to Develop Recommendations for the HVAC Systems

The results of the discussion, investigation, and analysis will be the preliminary engineering report. The report, which will be in letter format, will confirm the project scope, budget, scheduling, and phasing requirements. This report will serve as the basis for the construction drawings and bid specifications.

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

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

COMMUNICATION PROTOCOL

During the design phase Nathan Spencer, AIA and John Pruett, PE will serve as the primary contacts for the design team and will coordinate the work of our engineering team. These key team members as well as all primary WVARNG contacts would be included on all communication to facilitate an open discussion throughout the projects – in a manner that allows WVARNG to remain actively involved in all design decisions. All correspondence will be copied to this core group. As the project progresses regular bi-weekly meetings will be held to review the design progress, outstanding issues, as well as any regulatory or budget concerns. Meeting minutes will be produced to document discussion items, decisions, and responsibility for follow-up. Our team's recent experience working with WVARNG will help facilitate this open communication.



PROJECT APPROACH (CONT.)

During the construction phase additional resources will be added to ensure prompt and efficient responses to any issue that may arise. The project manager, Nate Spencer, AlA will coordinate the effort of the design team, and will be assisted by Keith Gonzales. Additionally, all submittals, pay applications, and RFI's will be logged and tracked by Amy Rhodes. Ms. Rhodes will update the entire project team (WVARNG, ZMM, and Contractor) weekly regarding outstanding items. ZMM currently utilizes ShareFile to provide real time access to all project information during the construction phase.

CONSTRUCTION DURATION

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

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

EXPERIENCE WITH REQUIRED DISCIPLINES

ZMM Architects and Engineers has assembled a team to meet the unique requirements of the project. Our team is comprised of some of the leading professionals in West Virginia and is experienced in each discipline noted below. With over sixty-five employees ZMM provides an integrated design approach by delivering all building-related design services including architecture, engineering (civil, structural, mechanical, and electrical), interior design, and construction administration in-house. ZMM's team includes nine registered architects, nine professional engineers, interior and lighting designers, and construction administrators. Our architects and engineers are highly qualified and have worked together to deliver projects with similar scope and complexity.





PROJECT APPROACH (CONT.)

Pre-Design

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

Design

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

Post Design

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

MECHANICAL / ELECTRICAL TEAM

ZMM Architects and Engineers is a fully integrated architecture and engineering firm that offers mechanical, electrical, and plumbing engineering with their in-house professionals. Our MEP engineers are industry leaders that are involved in helping to develop strategies and best practices for HVAC related design issues on both the local and national level. ZMM's engineering team will be led by John Pruett, PE. Mr. Pruett, ZMM's senior mechanical engineer, brings several years of mechanical design experience to the project. The engineering team will also include Frankie Kantsios, PE to assist with any required electrical engineering.

PROXIMITY TO WVARNG Coonskin Campus

ZMM's entire team of architects and engineers is located less than 15 miles from the project.





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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





CONSTRUCTION & FACILITIES MANAGEMENT OFFICE

LOCATION
CHARLESTON, WV

SIZE 19,935 SF COMPLETION

COST \$3.5M

AWARDS
2009 AIA WV MERIT AWARD

The Construction and Facilities Management Office (CFMO) Expansion project brought all of the operations of the CFMO together under one roof.

The branches that occupy this facility include the Director of Engineering, Environmental, Planning and Programming, Facility Operations & Maintenance, Business Management, Resource Management, and Design and Construction. This expansion is located slightly to the front, and adjacent to the existing facility, lending prominence to the new construction, and providing a new aesthetic to the entire complex.

A transitional space was designed to connect the new structure to the existing facility, while maintaining a connection to the outside through use of natural light, direct visual connections to the exterior, large volumes, irregular geometries, and the use of natural materials.

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









TACKETT FAMILY READINESS CENTER

LOCATION CHARLESTON, WV

SIZE 7,400 SF COMPLETION

COST \$1,57M

The Family Support Center is a two-story brick building with a sloped roof stepped into the wooded hillside adjacent to the Army National Guard facilities in Charleston, West Virginia.

The building is designed to provide for a multitude of military family assistance, guidance, education, training, and mentoring programs. The support center contains 11 office spaces, a chapel, and a variety of classroom and meeting spaces for various programs. The building provides an abundance of natural light and a central fireplace to project a warm, comforting and supportive atmosphere.

To reduce the project cost, ZMM eliminated the need for an elevator by siting the building in a manner that provided accessible entrances and parking at both levels. On the interior, these levels are connected by an open gathering space where stairs surround a central hearth.









JACKSON COUNTY ARMED FORCES RESERVE CENTER

LOCATION MILLWOOD, WV 5i2E 75,000 SF COMPLETION

COST \$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.









LOGAN-MINGO READINESS CENTER

HOLDEN, WV

2017 AIA WV MERIT AWARD

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.









JOINT INTERAGENCY TRAINING AND EDUCATION CENTER (JITEC)

LEED GOLD

LOCATION KINGWOOD, WV 283,000 SF

COMPLETION 2013

COST \$100M

AWARDS 2011 AIA WV HONOR AWARD

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.









GLEN JEAN ARMED FORCES RESERVE CENTER

LOCATION
GLEN JEAN, WV

110,000 SF

COMPLETION

COST \$17M

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

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

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









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.









WV STATE OFFICE BUILDINGS 5, 6, & 7

LOCATION

CHARLESTON, WV

AWARDS
2011 AIA WV MERIT AWARD

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

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

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









CHARLESTON COLISEUM & CONVENTION CENTER

LEED SILVER

LOCATION

CHARLESTON, WV

SIZE 283,000 S COMPLETION

COST \$100M

AWARDS 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.









WV REGIONAL TECHNOLOGY PARK

LOCATION SO. CHARLESTON

ZMM has provided Architectural and Engineering design services to multiple facilities located at the Regional Technology Park.

Building 704

ZMM is in charge of preparing a life safety analysis of the building as well as design services to improve the exterior façade of Building 704 at the WV Research, Education, and Technology Park. Building 704 had previously been utilized as a campus maintenance facility by Union Carbide and DOW Chemical.

Building 740

Steam Plant

When the Campus Steam Physical Plant for West Virginia Regional Technology Park was scheduled for closure in 2012, individual Steam. Boiler systems were required for each building. Building 740 was built in 1960 as a research facility for Union Carbide. It is still predominantly a laboratory building, with a 24/7 100% Outside Air HVAC System of approximately 175,000 cfm capacity.

Lobby Renovation

The lobby renovation will enhance the tenant experience with updated aesthetics to provide a welcoming environment upon entrance. The renovation will include a handicap lift to meet ADA requirements. The front space will also be reconfigured to convert a current work room into a conference room.







WV Regional Technology Park (cont.)

Building 770

The 122,180 SF 4-story laboratory building was constructed in 1959, consists of 44,880 SF of laboratories, 22,800 SF of laboratory office space, 8,200 SF of executive office space, and 46,300 SF of service and utility space. A 2,500 SF laboratory annex with 2-story walk-in fume hoods was constructed in 1995. The building has a steel frame structure with a brick and curtain wall veneer with one fume hood in each lab. A typical laboratory suite consists of labs and offices on a double loaded corridor. There are approximately 100 individual labs. laboratory suite consists of labs and offices on a double loaded corridor. There are approximately 100 individual labs.

The building is served by two 500 ton centrifugal chillers and campus steam. The laboratory's exhaust system consists of individual exhaust utility sets per hood. The utility sets are located in the mechanical penthouse. The conditioned air delivery system to the laboratory consists of large 100% outdoor air chilled water, steam AHU's. Only the executive office area is served by a unit with return air. Electrical service is provided by a 2.4 KV line-up of double ended switchgear, transformed to 480 volts, the chillers are fed directly from the 2.4 KV switchgear, and metered separately.

Aside from minor renovations to enclose the monumental stairway in the lobby, the executive office suite improvements can be limited to ceilings, lighting, finishes, and improved data access. It may be desirable to replace that HVAC system although the existing system is serviceable. Major building improvements are required in the laboratory areas. Through our analysis of the life safety code and conversation with the state fire marshal, a two-hour fire rated wall is required to separate the laboratory from the exit corridor. The duct and pipe chases adjacent to the laboratories must also be reconstructed as two-hour fire rated shafts. Additionally, the labs must be reconfigured so that an occupant of the lab does not exit adjacent to the fume hood. This can be accomplished by either relocating or eliminating some of the fume hoods. To accomplish the required improvements to the labs, the Hauserman partitions including the chases, corridor, office ceiling and lighting as well as all existing ductwork will be demolished. Essentially, the lab wings will need to be reconstructed.



Typical modern laboratories maintain humidity control which means humidification during the heating season. As the building exists, condensation will occur on the interior face of the window and curtain wall system. If humidity control is desired, replacement of the curtain wall is necessary.

As presently configured, the laboratory constant volume exhaust and make-up air systems operate 24 hours a day. Maintaining the systems in their current condition will result in large energy consumption estimated at \$13.25 per building SF annually. The steam and electric are metered at the building. The campus energy losses for each utility are added pro rata to the metered quantities. The annual energy charge based on 3 year data is between \$1,300,000 and \$1,600,000. It is very difficult to alter the existing air handling equipment to provide a system equivalent to a modern efficient laboratory system. The most effective way to improve energy efficiency in a large lab facility is to use a variable volume exhaust and make-up air system. The expense of treating the outdoor make-up air is reduced by providing exhaust and make-up air only for in-use fume hoods. To accomplish these improvements, a separate 100% outdoor air variable volume air handling system would be provided for the lab spaces and a separate variable volume system with supply and return air would be provided for the offices.





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TEAM QUALIFICATIONS



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, North Carolina, New Jersey, and Pennsylvania

AFFILIATIONS

Association for Learning Environments

WV Board of Architects, President

American Institute of Architects, Stategic Council

Charleston Area Alliance, Board Vice 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

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.

PROJECT EXPERIENCE

Capital Sports Center Conceptual Design - Charleston, WV

Charleston Coliseum and Convention Center - Charleston, WV

Shawnee Sports Center - Institute, WV

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

Staats Building Assessment - Charleston, WV

WVDNR Beech Fork State Park Cabins - Lavalette, WV

WVDNR Cooper's Rock Cabins- Morgantown, WV

Pipestem State Park Lodge Renovations - Pipestem, WV

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

Edgewood Elementary School - Charleston, WV

Christ Church - Charleston, WV

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

Girl Scouts of Black Diamond Council - Charleston, WV

Goodwill Prosperity Center - Charleston, WV

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





Bachelor of Architecture University of Tennessee, 2007

LICENSURE

West Virginia

AFFILIATIONS

WV Chapter, American Institute of Architects, Member

Nathan Spencer

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

Highland Hospital - Charleston, WV

Charleston Coliseum & Convention Center - Charleston, WV

Shawnee Sports Center - Institute, 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

Kenova AFRC SCIF Building - Kenova, WV

AASF #1 and #2 Hangar Additions

Mountaineer Challenge Academy South - Montgomery, WV

Morgantown Readiness Center - Morgantown, WV

Tucker County Courthouse Annex - Parsons, WV

Judge Black Courthouse Annex - Parkersburg, WV

Intuit Prosperity Hub - Bluefield, WV





Bachelor of Interior Design University of Chalreston - 2012

AFFILIATIONS

Association for Learning Environments

CARLY CHAPMAN

Director of Interior Designer

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

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

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





Master of Science Architectural Engineering The Pennsylvania State University, 1976

Bachelor of Science Mechanical Engineering West Virginia University, 1973

LICENSURE

WV, VA, PA, OH, TN, KY, NY, NH, ME, NC, SC, FL, NJ, GA

AFFILIATIONS

ASHRAE - Member of the Technical Committee Load Calculations Data and Procedures for 25 years, serving as chairman. Presently Chairman of the Research Subcommittee

2024 Outstanding Engineering Alumni -The Pennsylvania State University, one of 12 Engineering Alumni out of 100,000 graduates

2021 Industrial and Professional Advisory Council – College of Engineering at The Pennsylvania State University

2019 Marshall University Honorary Alumni Award of Distinction College of Engineering

Advisory Board for the Department of Electrical Engineering Technology, Bridgemont Community and Technical College

City of Pt. Pleasant, WV – 2nd Ward Councilman for 20 years

Robert Doeffinger

Principal

As ZMM's Principal Engineer, Mr. Doeffinger is in charge of the engineering disciplines, it is his responsibility to ensure that the mechanical and electrical engineering components of ZMM's design are coordinated and integrated into the final product.

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

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

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

PROJECT EXPERIENCE

First Presbyterian Church Assessment - Charleston, WV

Charleston Coliseum and Convention Center - Charleston, WV

State Office Buildings #5, 10th Floor - Charleston, WV

WV Capitol Complex Buildings #5, #6, and #7 - Charleston, WV

Marshall University (Multiple Projects) - Huntington, WV

West Virginia Regional Technology Park - S. Charleston, WV

- Building 704
- Building 740
- Building 770

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

West Virginia Regional Jails

West Virginia Army National Guard Projects

BridgeValley Community and Technical College - Montgomery, WV

Appalachian Regional Hospital (Multiple Projects) - Beckley, WV

The Plaza at the King of Prussia - Philadelphia, PA





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

LICENSURE

West Virginia, Virginia, Indiania

LEED AccreditedProfesssional

AFFILIATIONS

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

United States Marine Corps - 14 Years

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 ito 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

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 Developemnt 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





Bachelor of Science Virginia Polytechnic Institute & State University, 1987

LICENSURE

Virginia, West Virginia, North Carolina, Ohio

TODD POFF, PE

Structural Engineer

Mr. Poff started as a Civil Engineer. After working in that department for several years, he began moving over to the Structural Engineering Department; where his true interest, and most of his training lies.

As a Structural Engineer, it is Mr. Poff's responsibility to insure the safety of the structure's design, as well as any occupants inside those structures. As a member of the design team, Mr. Poff understands that the structural system of a building needs to have the least amount of impact possible on the architectural design and on the way clients use the buildings. It is that kind of teamwork, with all major design disciplines in-house, that allows ZMM to say with confidence we provide our clients with a building design that will not only meet their needs but will be a place they can enjoy for many years to come.

PROJECT EXPERIENCE

Roanoke County Public Libraries - VA - Glenvar, Vinton & South County

Rappahannock Electric Maintenance Facility - Front Royal, VA

InnovAge Roanoke - VA

Kollmorgan Structural Analysis - Radford, VA

Truck Manufacturing Plant - Dublin, VA

- Multiple Crane Analysis/Relocation Projects
- Cab Trim Assembly Building

Collins UTC Aerospace Plant Structural Analysis - WV





Bachelor of Science Old Dominion University, 2019

Associate of Applied Science New River Community College, 2016

LICENSURE

West Virginia Virginia

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FRANKIE KANTSIOS

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- $\lor \land$

- 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*



teremous Employer Experience



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

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.

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





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

 \mbox{WVDNR} - Claudia Workman Fish and Wildlife Education Center - \mbox{Alum} Creek, \mbox{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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CLIENT REFERENCES

CLIENT REFERENCES



Robert Kilpatrick, Deputy Director General Services Division of WV 103 Michigan Ave Charleston, WV 25311 304.352.5491



Matt Ballard, Chief Executive Officer/Executive Director WV Regional Technology Park 1740 Union carbide Dive South Charleston, WV 25303 304.356.3165



Mr. David Molgaard, Former City Manager City of Charleston Charleston Coliseum and Convention Center 304,389,2011 cell