



STATEMENT OF QUALIFICATIONS

**A/E DESIGN SERVICES FOR: BUILDING 37 WINDOWS, HVAC, ROOF,
AND ENVELOPE UPGRADES PROJECT**

(GSD2300000004)

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WV Purchasing Division

JANUARY 31, 2023





January 31, 2023

Melissa Pettrey, Senior Buyer
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305

Subject: A/E Services - Building 37 Window, HVAC, Roof, and Envelope Upgrades Project (GSD2300000004)

Dear Ms. Pettrey:

ZMM Architects and Engineers, in partnership with WDP & Associates Consulting Engineers, is pleased to submit the attached information to demonstrate our experience and our qualifications to provide professional architectural and engineering design services for the Window, HVAC, Roof, and Envelope Upgrades for Building 37.

Established in 1959, ZMM is a Charleston based, full-service A/E firm, and is noted for design excellence and client focus. ZMM has extensive architectural and engineering experience across West Virginia evaluating and addressing the needs of existing buildings. ZMM has renovated buildings throughout the region and has a history of providing services on improvement projects to our state's landmark buildings, including the West Virginia State Capitol, the Culture Center, the Charleston Coliseum and Convention Center, State Office Buildings 5, 6, &7, and the Clay Center. Many of these projects, including our work on State Office Buildings 5, 6, & 7 and the Charleston Coliseum and Convention Center, included phased improvements to occupied buildings. Perhaps most importantly, the ZMM team has worked collaboratively with the Department of Administration General Services Division on a variety of past projects on nearly every building at the Capitol Complex. We are hopeful that you observed our commitment to design quality, budget and schedule control, and client service demonstrated on these projects.

To supplement our team's qualifications regarding building envelope investigation, ZMM has partnered with WDP & Associates Consulting Engineers (WDP) for this endeavor. WDP, established in 1995, specializes in building façade investigations and repair, building envelope consulting and testing, and structural engineering. WDP's staff has worked closely with the GSD on multiple successful projects. Some of these projects have included the water intrusion issues at the West Virginia State Capitol Dome, structural repairs for State Office Building 13 Precast Parking Garage, and the building façade renovation for the Public Service Commission of West Virginia.

Teamwork is the key to a successful Building 37 project. To ensure this success, ZMM and WDP commit to working in an objective and collaborative manner with GSD staff with a focus on meeting the vision, budget, and schedule. ZMM and WDP have detailed in the following pages our experience and approach to addressing the goals and objectives set forth for the Window, HVAC, Roof, and Envelope Upgrades for Building 37.

Thank you for taking the time to review the attached expression of interest that has been formatted per the requirements of the Request for Proposal. Additionally, please visit our websites at zmm.com and wdpa.com to see the full range of projects that we have designed, and to learn about working with our team from a client's perspective. We appreciate your consideration for this important assignment and look forward to the opportunity to meet and discuss the project in greater detail.

Respectfully submitted,
ZMM Architects and Engineers

WDP & Associates Consulting Engineers, Inc.

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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 50 highly-skilled professionals.

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



About ZMM Architects & Engineers (cont.)

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

ZMM's building-related design services include:

Pre-Design

Educational Facility Planning
Existing Building Evaluation
Space Planning
Master Planning

Programming
Feasibility Studies
Site Evaluation and Analysis
Construction Cost Estimating

Design

Architectural Design
Interior Design
Lighting Design

Sustainable Design
Landscape Architecture

Engineering

Civil Engineering
Mechanical Engineering
Energy Consumption Analysis

Structural Engineering
Electrical Engineering
Net Zero Buildings

Post-Design

Construction Administration
Life Cycle Cost Analysis

Value Engineering
Post-Occupancy Evaluation

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



ABOUT WDP & ASSOCIATES

WDP & Associates Consulting Engineers, Inc., (WDP) is an SBA-certified (1KZR5) consulting engineering firm specializing in building façade investigations and repair, building envelope consulting and testing, structural engineering, and historic preservation. Creating lasting engineering solutions is at the heart of our business.

WDP's staff has worked closely with the West Virginia General Services Division (GSD) on multiple successful projects since 2015. We have investigated water intrusion issues at the West Virginia State Capitol Dome as well as designed structural repairs for the GSD's Building 13 precast parking garage. Our ongoing projects at the Capitol Complex for the West Virginia General Services Division and our completed project at the Public Service Commission Headquarters building have brought us to Charleston on a weekly basis for the last 6 years. Our experience in the state began over 19 years ago with a project at West Virginia University in Morgantown, and we remain dedicated to serving the needs of our West Virginia clients. In the last five years alone, we have worked on more than 20 projects from Charleston to Morgantown to Snowshoe; our services on those projects have included evaluating the structural stability of existing building components, investigating air and water infiltration issues, evaluating the hygrothermal properties of existing wall assemblies, and providing recommendations for repairs. **In 2020, we officially opened an office in Hinton to better serve the needs of our clients throughout the State of West Virginia.**

WDP performs around 100 façade assessments, roof, building envelope, and structural investigation and repair projects every year. **Most of WDP's repair projects involve facilities that must remain occupied and operating "business as usual" throughout the investigation and repair process.** Our investigative strategies and value-based repair designs have addressed countless issues, such as building envelope problems manifested through air/water leakage, occupant comfort issues, structural deficiencies caused by moisture infiltration, differential movement, general deterioration of building materials, biological growth, and aesthetic deficiencies, among others.

Façade and Building Envelope Evaluations

WDP provides a variety of services related to building facades and enclosure systems, including facade assessments, leakage investigations, peer review of architectural design, development of repair and restoration documents, mockup and field performance testing, enclosure commissioning and construction administration services. Our expertise in the diagnosis and correction of exterior envelope systems includes extensive knowledge of brick and natural stone masonry (both veneer and adhered systems), fenestration systems, roofing, stucco, exterior insulation and finish systems (EIFS), precast concrete wall panels, architectural metal panel systems, concrete, and steel structures. WDP's professional team of envelope specialists are experienced in performing hands-on inspections with particular care given to original construction materials and evaluation of pre-existing repairs. No matter the age of the facility, from historic 18th and 19th century structures to newly constructed buildings experiencing post-occupancy problems, WDP has experience in preservation and improving the value of existing facility assets through tailored engineering solutions. Our investigative strategies and cost-effective design approaches have addressed countless façade issues, such as cracking, facade instability, air and water leakage, mold growth, and aesthetic deficiencies.



About WDP (cont.)

In addition to developing designs for numerous window replacement and envelope repair projects each year, WDP has served as the Engineer of Record for the investigation, design, and construction administration of over 16 full façade replacement projects to restore the structural performance and weather resistance of curtainwall, EIFS, stone, concrete, brick masonry, and metal panel facades. We routinely transition from the evaluation of problems into the production of repair and restoration design documents, bid solicitation, bid evaluation, construction administration, and quality assurance inspection. More often than not, our clients must maintain occupancy and use of their building throughout the course of the repair project. WDP has experience developing construction phasing that minimizes disruption and considers egress routes through the building to ensure occupant safety is held paramount through the construction phase of the project.

Roof Consulting Services

WDP's highly qualified engineering staff performs roof design engineering and roof inspection services. Our most frequently requested services include roofing evaluations, design engineering, roof inspections, construction administration services, and new construction peer review. Roof inspections and evaluations may include review of pertinent plans and documents, field investigations, nondestructive or destructive testing, laboratory analysis and testing, structural analysis, design work for structural repairs or strengthening, contract document and bid document preparation, as well as construction management or quality assurance inspections.

WDP's experience in roof consulting services includes designing, inspecting, and testing a complete range of low slope single ply and built-up roof systems such as EPDM, modified bitumen, TPO, PVC, spray polyurethane foam, and hybrid roof systems. We also have similar levels of expertise with solar photovoltaic panels, garden roof systems, exposed and protected membrane roof systems, steep sloped roof systems including asphalt shingles, slate shingles, and clay tile roofing.

WDP's licensed professionals are not only experienced at the evaluation phase of existing roof systems but also in developing repair recommendations and conducting repair oversight of the project. WDP is qualified to assist in developing contract documents to replace the entire roof system or develop pertinent details to conduct isolated repairs. In addition, WDP performs peer reviews and develops design documents, as well as construction administration services, for new construction.

Façade Evaluation Access

To effectively evaluate the building façade, you have to be able to get to it. WDP assists owners and property managers with cost-effective and expeditious ways to perform facade inspection programs for all types of exterior walls and façades. WDP's professional engineers and architects perform close-up inspections and evaluate conditions observed based on technical experience and comprehensive understanding of wall and window systems. Access is typically provided from scaffold, aerial lifts, or suspended platforms, which can take time to assemble and relocate to different portions of the building.

For difficult access conditions, WDP routinely utilizes industrial rope access for façade evaluations with our SPRAT-certified and professionally licensed personnel thus limiting the time and impact of using a traditional scaffolding system. Rope access allows our staff to evaluate multiple areas of a building façade with relatively little setup time or costs. WDP also has capabilities to perform diagnostic testing and non-destructive testing from rope access when more than just visual observations are required.





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PROJECT APPROACH

PROJECT UNDERSTANDING / GOALS AND OBJECTIVES

Project Understanding

As it states in the EOI, Building 37 is a three-story 177,683 SF office building constructed in 2004. It currently houses three departments, the DEP, PEIA, and RED. The building has been certified as LEED-NC Silver. The intent of the current engagement is to conduct an assessment of the windows, HVAC systems, roofing systems, and the building envelope for Building 37. Once the assessment is complete the team will assist with the implementation of upgrades to these systems. ZMM and WDP will also work with the General Services Division (GSD) upon completion of the assessment for Building 37 to determine if the certification of LEED will be restored and the accreditation maintained. The technical nature of the Building 37 project demonstrates the need for a full service design team with experience working with the State of West Virginia General Services Division. ZMM and WDP have all of the technical professionals - including architects, engineers (forensic engineers, structural, mechanical, and electrical), building envelope consultants, and interior designers - needed to address every aspect of this GSD project. If selected for this engagement, ZMM and WDP will staff the project with architects, engineers, and consultants that have previously delivered a variety of successful assessment and renovation projects for the General Services Division, including various improvements to State Office Buildings 5, 6, & 7, the State Capitol, and the Culture Center.



The EOI contains the following goals and objectives:

Goal #1 - Condition Assessment:

Due to the integrated design approach provided by ZMM Architects and Engineers, our firm has become a trusted resource for renovation and adaptive reuse projects throughout West Virginia. In many cases, and as is anticipated for the Building 37 Assessment and Renovation, the first step in a successful renovation project involves ZMM and WDP conducting a detailed facility assessment to assist building owners with the scope and budget development process. The purpose of the assessment is to determine the condition of the major building systems, and to identify both immediate and long-term enhancements that will be required to fully improve the building.

Based on the extensive nature of the reported problems with the exterior of the building, it will be necessary to conduct a thorough evaluation in accordance with ASTM E2128, "Standard Guide for Evaluating Water Leakage of Building Walls." WDP will develop an investigation plan in conjunction with ZMM and the State that incorporates the goals and objectives of all project stakeholders. To develop an investigation plan, ZMM and WDP would perform a site visit with the project stakeholders to ensure a thorough understanding of the observed concerns and evaluate any constraints in performing an evaluation. We would review any available project records, including original drawings and specifications, subsequent repair projects, or maintenance reports, to get a general understanding of the building history and operation.

The team will focus the investigation on the following systems:

- Windows
- HVAC

Project Understanding and Goals (cont.)

- Building Envelope
- Roofing System

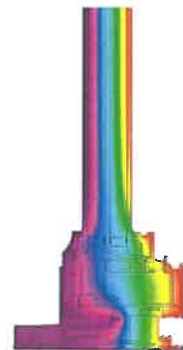
ZMM would also recommend an in investigation of the following systems:

- Interior Conditions and Finishes
- Plumbing Systems
- Electrical Service and Distribution, Emergency Power
- Lighting
- Mechanical Systems
- Data/IT Infrastructure

The façade evaluation would be performed and would generally consist of a visual and tactile survey for as much of the building façade as feasible along with diagnostic window and enclosure testing to determine the source of the leakage and the root cause of the observed problems. Access to the building façade would be coordinated with the GSD to evaluate options for use of an aerial lift at all elevations of the building or to see if our internal rope access team would be necessary. In addition to the diagnostic water testing and visual survey, exploratory openings would be necessary to verify existing construction and the extent of the damage beneath and adjacent to the windows and to also document the condition of the framing and interior walls to determine in repairs will be necessary. An infrared thermography survey and roof cores into the existing roof will also be conducted to determine the overall composition of the roof and the full scope of the needed roof replacement. WDP has all of the in-house equipment and capabilities to conduct the full diagnostic evaluation. This effort would be coordinated with building occupants to limit disruptions on the interior of the building during the testing.

NFRC Simulation

WDP has staff trained as a Certified Simulator by the National Fenestration Rating Council (NFRC) which uses WINDOW 7 and THERM 7 software programs to determine fenestration product U-factors, Solar Heat Gain Coefficients (SHGC), Visible Transmittance (VT), and Condensation Resistance (CR), all of which can affect the transfer of heat through a fenestration (window) assembly. While this evaluation is commonly used to rate newly installed fenestration systems, this tool can be used to evaluate the thermal performance of existing windows and evaluate the impact of various refurbishment strategies. This process provides the opportunity to evaluate performance of the existing assembly based on actual framing components, materials, glazing, and configuration and compare the performance to a series of different repair options to determine which approach provides the most value and meets the sustainability goals for retrofit projects.



In addition to utilizing this software for ratings of fenestration, THERM can be used to evaluate heat transfer through the fenestration system and surrounding building envelope components in order to evaluate various configurations that would limit thermal bridging at these critical intersections.

Once the investigative effort is complete, the ZMM/WDP team will develop a list of recommended improvements and prepare an estimate of the probable construction cost. The estimate will then be used to confirm the scope, and to help prioritize both current and future improvements. The result of the investigation will be a report that will serve as the basis for future project and design decisions. This comprehensive approach ensures that all improvements are made in a manner that supports the overall vision of the facility – and is the first step to delivering a project on budget – by clearly defining the scope and project expectations.

Project Approach and Goals (cont.)

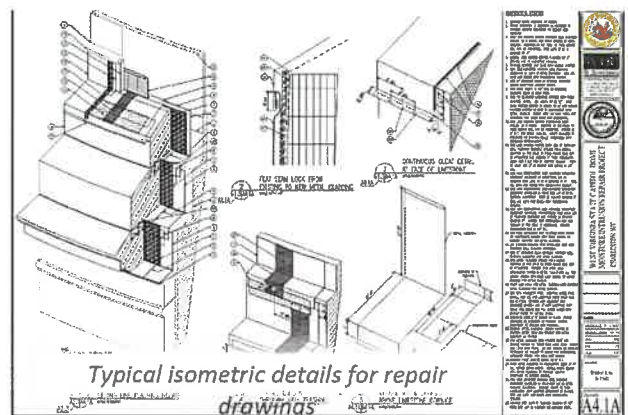
Goal #5 - Building Exterior Cleaning:

ZMM and WDP's experience in the restoration of existing buildings has allowed us to recognize that different substrates require different types of cleaning methods. Cleaning can be accomplished in various methods, from chemical cleaning to water soak cleaning without the assistance of chemicals. Cleaning using the assistance of chemicals is completed now using only materials which are bio-degradable and environmentally acceptable. Masonry, stone, or terra cotta should be cleaned using the gentlest method possible. To avoid further deterioration of mortar joints or friable surfaces techniques such as low-pressure water and hand brushing should be employed. Too much high-pressure cleaning can deteriorate the building's sealant and expansion joints. Special care should be taken to avoid high pressure cleaning in these areas. A pre cleaning investigation of all areas with sealant and location of control joints for their condition should be completed prior to cleaning. After the cleaning process is complete a post survey of all areas should be reviewed and replace as necessary any damaged joint conditions. This is critical for the longevity of the building envelope.



Goal #6 - Design and Construction:

ZMM and WDP have extensive experience generating Contract Documents for the State of West Virginia to include both drawings and project manuals for repair projects, including for façade repair along with window and roof replacements. We are familiar with the requirements in West Virginia State building codes, the process for reviewing the Contract Documents with the State Fire Marshal, and supporting the State through the bid process. When developing Contract Documents, ZMM and WDP take pride in developing a set of details and specifications that are unique to the project. Typically, the integration details between a plan view and section view are the most critical for a repair; as such, ZMM and WDP routinely incorporates isometric details into our drawing packages to clearly convey the repair design at these intersections. Our project specifications are also unique to the project and are often written by the same engineer that is developing the details in the drawings to ensure coordination between the drawings and specifications for the project.



ZMM and WDP also recognize the need to perform repairs while the building remains fully occupied and operational. We would work with the project stakeholders to understand any limitations with door closures and evaluate egress routes through the building to determine proper pedestrian protection and safeguards during construction. Phasing requirements and temporary protection measures would be incorporated into the construction documents to clearly convey these requirements to potential bidders. Our previous experience providing services on occupied buildings has been demonstrated through our work on improvements to Buildings 1, 5, 6, & 7 on the Capitol Complex.

With repairs to existing buildings, unforeseen conditions are likely to arise during construction. As such, we understand the importance of being actively engaged throughout the construction phase and having a consistent presence on the project site to ensure repairs are executed in accordance with the construction documents. With the proximity of our offices to Building 37 in Kanawha City, we are able to be responsive to issues that may arise on site and can work closely with the project team to quickly address them.

Similar Experience (Commercial Office, Renovation, Phasing)

ZMM has renovated buildings throughout the region and has a history of providing services on improvement projects to many landmark buildings, including the West Virginia State Capitol, the Culture Center, the Charleston Civic Center, State Office Buildings 5, 6, & 7, and the Clay Center. Each of these buildings remained occupied during the upgrades. In addition to our renovation experience, ZMM has provided services on multiple commercial office space projects that had a similar intent of providing flexible, modern office space. Other projects include renovations to various floors in State Office Buildings 5, 6, & 7, the West Virginia Housing Development Fund office in Kanawha City, and Floors 7, 8, and 9 at the Lottery Building.



The most relevant project to the current proposed project is State Office Buildings 5, 6, & 7. The improvements commenced with an overall building assessment that examined the condition of the buildings, as well as cost and phasing options for implementing various upgrades. Once the assessment was completed, a variety of phased improvements were implemented while the building remained occupied. These improvements commenced with the renovation of the 10th Floor of Building 5 – which required the construction of the infrastructure that is being used to install a sprinkler system on each additional renovation. The next phase of the renovation involved floors 7, 8, and 9 of Building 5 and floors 7 and 8 of Building 6. All of these floors have been fully renovated, including abatement, demolition, new construction, and updated life safety systems. ZMM has also provided design services for the renovation of the 2nd, 3rd, and 4th Floors of Building 6 for the Department of Education and Division of Personnel. Additional improvements have included:

- Roof Replacement
- Electrical Courtyard Improvements
- Door and Window Replacement
- Exterior Cleaning and Caulk Replacement
- Valve Replacement

Another project that remained occupied during a significant renovation was the Expansion of the Charleston Civic Center (now the Charleston Coliseum and Convention Center). The \$100M expansion project, which included the replacement of the central plant, and upgrades to all mechanical, electrical, and plumbing systems, has been implemented utilizing a phased approach. One of the project constraints was that this critical public facility remains operational throughout the construction process. The project was completed on time in October of 2018, and the Charleston Coliseum and Convention Center was able to maintain operations throughout the process.



Sustainability

ZMM is one of West Virginia's leader in providing sustainable design services. We are committed to designing and engineering the most energy- and resource-efficient buildings possible. Our designs consistently incorporate appropriate energy-efficient mechanical and electrical systems, local- and recycled-content materials, water conservation, quality indoor air, and innovative design solutions. ZMM has been a member of the U.S. Green Building Council since 2002 and has had experience with the LEED (Leadership in Energy & Environmental Design) Green Building Rating System. Several ZMM projects, including the Charleston Coliseum and Convention Center, the Joint Interagency Training and Education Center (JITEC), the Logan-Mingo Readiness Center, and the Wood County Justice Center have achieved LEED certification.



Why is ZMM Architects and Engineers and WDP & Associates Consulting Engineers the right team to assist the State of West Virginia General Services Division on the Building 37 Assessment Project?

We are confident that ZMM and WDP have the right combination of renovation and governmental office design and construction phase experience to successfully deliver this project. Additionally, we are confident that the project approach outlined above will include the most thorough building investigation possible, which will help ensure the successful delivery of the project. Perhaps most importantly, the ZMM and WDP team has worked collaboratively with the General Services Division to successfully deliver similar projects. We are hopeful that you have observed our commitment to design quality, budget and schedule control, and client service demonstrated on these projects.



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RELEVANT EXPERIENCE



WV STATE OFFICE BUILDINGS 5, 6, & 7

LOCATION
CHARLESTON, WV

AWARDS
2011 AIA WV MERIT AWARD

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

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

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





WEST VIRGINIA STATE CAPITOL BUILDING

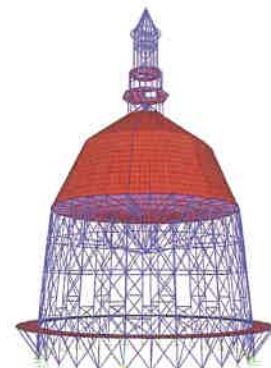
LOCATION CHARLESTON, WV	SIZE 535,000 SF	COMPLETION 2021	COST \$15M	AWARDS 2020 NCSEA AWARD FOR OUTSTANDING PROJECT
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Awarded “2020 Outstanding Project in the “Forensic, Renovation, Retrofit, Rehabilitation Structures under \$20 Million” Category by the National Council of Structural Engineers Associations (NCSEA)

Originally constructed in 1932 to replace the prior building which burned in 1921, the West Virginia State Capitol Building is a steel framed structure with brick masonry infill and limestone cladding capped with a 292-foot tall dome, gilded with gold leafing.

Since the time of its completion, the Dome has been plagued with numerous water infiltration issues, which have resulted in significant damage to interior finishes that are difficult to access. In 2015, the State of West Virginia General Services Division (GSD) issued an RFP seeking professional services to identify and investigate the source of moisture intrusion leading to damage within the upper rotunda of the Dome and to recommend repairs, and WDP was selected after competitive interviews.

Due to the nature of the building, all personnel who worked on the investigation were required to go through a background check and receive badges that allowed access to areas of the Capitol that were not open to the public. WDP conducted a systematic three-week long investigation of the Dome and Capitol building, utilizing visual observations, exploratory



West Virginia State Capitol Building (cont.)

openings, and diagnostic water testing to ascertain the construction of the building envelope and to identify the path of infiltrating water. Due to the location of the damaged interior finishes requiring investigation, unique access was required for the investigation. A swing stage system was installed through the interior of the building and was used to make observations to damaged interior finishes near the top of the Dome.



The main source of the water infiltration was found to be a result of improper flashing installation at roofing elements and deteriorated limestone mortar joints, along with failures in the internal water management systems, that allowed bulk water to penetrate through a mass masonry assembly to the interior. WDP developed a comprehensive report summarizing the findings and provided recommendations to address the issues that were found in a tiered approach for GSD consideration. This allowed the GSD to evaluate, increasingly, more comprehensive repairs and their associated costs to determine the scope of work that would provide the most value to the project. After coordination with the GSD, the State Historic Preservation Office, and the Capitol Building Commission, construction documents were developed that included the removal of limestone cladding elements to install through wall flashing and waterproofing systems, selective repointing of limestone mortar joints, replacement of internal plumbing and drainage elements to include portions of roofing elements, and restoration or replacement of interior ornamental and flat plaster finishes to include matching existing decorative paint. The building would remain fully occupied during the execution of the work, so the design included temporary interior construction barriers and evaluation of egress routes through the building to ensure building occupant safety was held paramount through the construction phase. Once access was provided to the inner dome during the construction phase, WDP identified structural failures that required retensioning of the cast plaster inner dome and replacement of interior walls with grouted and reinforced structural clay tile. This required a unique analysis of the coconut reinforced cast-plaster inner dome to develop repair strategies that structurally supported the inner dome, while following requirements for historic preservation. WDP provided construction administration services throughout the construction phase and was engaged in weekly site visits and progress meetings in order to be responsive to items uncovered on site and work through unique sequencing requirements to execute the repairs.



West Virginia State Capitol Building (cont.)

During the construction phase of the Dome Moisture Intrusion project, existing conditions unrelated to the Dome Moisture Intrusion project were identified within that building that resulted in life-safety hazards to building occupants. Based on our previous work experience and professionalism, the GSD engaged WDP under emergency contracts to investigate, evaluate, and develop repair designs for each of these conditions.

Clay Tile Repair Project: The interior partition walls of the Capitol building are constructed with unreinforced hollow clay tile spanning between floor levels. The original design relies on the friction fit of the clay tile units between the floor levels to secure the walls in place. However, moisture expansion within the clay tile caused failures at the top of the wall resulting in cracked clay tile units that compromised the security of the clay tile walls and created a fall hazard for building occupants. WDP performed a comprehensive visual survey of locations throughout the building constructed with clay tile units, identified spaces where clay tile was found to be compromised, and designed repairs to address each location. These repairs ranged from grouting of clay tile units, installing partition anchors or saddle clips, to designing framing anchored to the surface of the clay tile to provide lateral support for the walls. WDP provided bid assistance and construction administration services for the execution of this work.





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.





PUBLIC SERVICE COMMISSION OF WEST VIRGINIA

LOCATION	SIZE	COMPLETION	COST
CHARLESTON, WV	20,000 SF	2017	\$4.2M

Originally constructed in 1984, the headquarters for the Public Service Commission of West Virginia is a steel-framed structure supported by spread footings that provides office space for various public divisions such as Utilities and Administration. In 2015 the Public Service Commission issued a request for proposals for a Design-Build renovation of the building's façade, indicating the possibility of replacing the structure's brick exterior.

The Design-Build team proposed replacing brick with brick due to the longevity of brick, its aesthetic compatibility with neighboring buildings, and overall value of using brick. Additionally, the thermal performance of the wall assembly could be improved with the addition of exterior cavity insulation and continuous air and water barrier. Furthermore, the new design called for the addition of improved glazing and eye-catching metal work logos of the Public Service Commission for the exterior. Demolition and construction process began in March of 2016 with the requirement of maintaining building occupancy throughout the entirety of the project.

WDP conducted an initial field investigation prior to developing the design documents for the project. The field investigation provided the opportunity to uncover some of the existing conditions so the design details could be developed based on actual construction. The design involved a complete removal of the building's exterior, providing temporary enclosures to protect interior finishes and building occupants, and replacement with



Public Service Commission of West Virginia (cont.)

new brick, air barrier and thermal insulation on a phased demolition and construction plan to ensure minimal disruption to the building occupants. WDP designed a new structural framing system that was integrated into an existing structural element to provide the framework for a new monumental limestone arch feature at the front of the building.

During demolition, unforeseen conditions were identified that included unreinforced and unsupported CMU-masonry backup walls and existing walls that were not in alignment. WDP developed specific details to strengthen the existing walls and accommodate the unique existing conditions.





WEST VIRGINIA LOTTERY HEADQUARTERS

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

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

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





WV SCHOOL OF OSTEOPATHIC MEDICINE

LOCATION
LEWISBURG, WV

SIZE
VARIOUS

COMPLETION
ONGOING

The Main Building for the West Virginia School of Osteopathic Medicine was originally built in the 1920's with numerous additions and alternations over the years.

The Main Building was built with 5 major pods and enclosed corridors connecting the pods into one large multistoried building that includes offices, classrooms, library, and meeting rooms. The building's brick and stone exterior is old, some more that 90 years old, and exhibits deterioration from the effects of exposure to the exterior elements.

The brick and stone exterior shows deterioration of the mortar joints and various cracks from expansion and contraction from temperature change and freezing. The steel lintels above doors and windows exhibit rusting, some have rusted enough to cause structural damage to brick or concrete header. Concrete, cement plaster elements along with metal flashing also show some deterioration and are in need of repair. ZMM produced construction documents to clean and repair all deteriorated portions of the building's exterior. These documents show all the building's exterior condition and include details, specific repair instructions and quantities of repair work for the entire building.

In 2021 the Main Building received a roof replacement.



WV School of Osteopathic Medicine (cont.)

Robert C. Byrd Clinic: Interior Renovation

The interior renovation to the Robert C. Byrd Clinic, a non-profit organization affiliated with WVSOM. The project includes renovation of 1,075 SF of existing administrative area which included two offices and a large open office area. ZMM renovated this area to provide three offices and paired exam rooms along with a reception area and waiting room for psychiatric / behavioral health services. Reworking of the existing building systems; HVAC, electrical, lighting and fire suppression systems were also included in the scope of work. The Robert C. Byrd Clinic also had a roof replacement.



Main Building and Robert C. Byrd Clinic: Waterless Fire Suppression

Another project ZMM completed was the addition of a waterless fire suppression system for the server rooms in the Main Building and the Center for Technology and Rural Medicine. The renovation included sealing the interior perimeter of each server room and the installation of a fire suppression system that protected inside the room, above the acoustical ceiling and below the raised computer floor. The new system connected to the existing fire alarm control panel, has disconnects that shut down air conditioning units, and are connected to a roof mounted exhaust fan for purging the room after discharge.



Tech Center Expansion - Testing Center

The Testing Center is designed to accommodate 220 students and will connect the Center for Technology and Rural Medicine (Tech Center) and the Clinical Evaluation Center (CEC). The main Testing Center space is being designed to support student achievement by limiting visual and auditory distractions. The interior environment is also designed to create a calming or contemplative space for WVSOM students. The Testing Center has two entry vestibules on either side of a registration desk, which is separated from the proctor area by a technology room. The project includes reconfiguring office space in the Tech Center for Pre-Clinical Education and Information Technology, while the addition provides expansion office space for Information Technology and new offices for the Exam Center.



Additional Projects:

- Facilities Master Plan
- Green Space at Campus Entry
- Alumni Center - HVAC and Roof Replacement
- Stookey Library - Roof Replacement
- Tech Center - Natural Gas Generator





EDWARD N. CAHN FEDERAL BUILDING & U.S. COURTHOUSE

LOCATION ALLENTOWN, PA	SIZE 18,575 SF	COMPLETION 2021	COST \$1.4M
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(IDIQ) Contract for Roofing, Façade, and Building Envelope Engineering and Design Services

WDP performed a pre-design existing conditions survey to document the main and two small entrance roofs for replacement. During the survey, test cuts were made in the existing roofing system to confirm existing materials and slopes, and hazardous material testing was performed to check for asbestos, lead, and PCBs. Findings from the investigation were presented to the GSA to help the Owner evaluate options for the repair scope of work. The new design includes replacing the exiting ballasted EPDM roof membrane with a mechanically fastened cover sheet over the existing lightweight insulated concrete roof deck, fully adhered cover board, and fully adhered EPDM membrane.

In addition to the roof replacement, the design includes replacing two roof drains, correcting issues with flashing, mortar and sealants at parapets, repair of control joints in brick masonry, addressing existing ponding, updating lightning protection equipment, and installing a new fall protection system. The new roof system was designed to obtain a 20-year warranty at the completion of construction.

WDP provided construction administration services during the construction phase of the project.





WV REGIONAL TECHNOLOGY PARK

LOCATION
SO. CHARLESTON

SIZE
VARIOUS

COMPLETION
ONGOING

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.



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

WV Regional Technology Park (cont.)

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.



BYRNE-GREEN U.S. COURTHOUSE & FEDERAL BUILDING

LOCATION PHILADELPHIA, PA	SIZE 22 & 10-STORY	COMPLETION EST. 2023	COST \$2M
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(IDIQ) Contract for Roofing, Facade, and Building Envelope Services

The Byrne Green complex consists of two buildings, the 22-story James A. Byrne U.S. Courthouse and the 10-story William J. Green, Jr., Federal Building, which are connected by an enclosed causeway and share a large plaza open to the public. In 2021, WDP conducted an investigation and study to evaluate the condition of the façade and building envelope and provided recommendations and cost estimates for the needed repairs. The project was organized into two phases with the Phase 1 survey including a review of GSA-provided documentation of both the Byrne and Green buildings, followed by an aerial drone survey. In Phase 2, WDP conducted a close-up visual survey of façade areas accessible via the ground and roofs as well as performing a tactile survey of the façade via rope access by WDP's Rope Access Team.

The combination of drone footage and rope access survey allowed us to successfully capture the current condition of the building's exterior elevations. The engineers on the building were able to make detailed observations at key locations, and the drone footage was a useful complement, permitting our engineers to "look around" the remaining

areas of the building for reoccurring conditions and to determine if there was anything additional beyond our initial observations.

We continued to analyze these field observations in the context of information gained from document reviews and leakage reports to



Byrne-Green U.S. Courthouse & Federal Building (cont.)

develop a series of conditions to be addressed and recommendations for repairs. We assigned a priority for each condition according to the RFP guidance and developed a scope of work for each recommendation at a level of detail needed for our cost consultant to develop estimates.

WDP then worked closely with our cost estimating subconsultant to develop detailed cost estimates in accordance with GSA estimating standards and requirements to be broken down by building elevation and with noted prioritization of repairs. Cost estimating services also included updating of previous plaza renovation estimates.





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.





UNIVERSITY OF VIRGINIA, JUDGE ADVOCATE GENERAL SCHOOL

LOCATION CHARLOTTESVILLE, VA	SIZE 4 FLOORS	COMPLETION 2011	COST \$1.6M	AWARDS 2012 ICRI OUTSTANDING REPAIR PROJECT
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This project was awarded the 2012 ICRI Outstanding Repair Project Award for façade restoration and structural improvements.

The Judge Advocate General (JAG) School is a concrete framed structure with brick infill constructed in the early 1970s. The University owns the facility and leases it to the Army's Judge Advocate General School. The third and fourth floors of the building serve as temporary living quarters for students attending classes at the school.

WDP was contacted after a major interior renovation of the facility's fourth floor revealed significant deterioration of the light gage framing, exterior wall assemblies, and structural steel framing system. An evaluation of the condition of the exterior wall systems, structural steel framing, and concrete structure was performed. The evaluation involved reviewing the condition of the exterior metal stud walls, exterior sheathing, exterior veneer, exterior veneer structural attachments, structural steel framing, and the concrete structure as it related to the exterior walls. Test cuts were made in the exterior veneer and the interior drywall to evaluate the wall system components.



UVA, Judge Advocate General School (cont.)

WDP's findings and recommendations for repair were presented to the University. The University made the decision to execute a major renovation program to replace portions of the exterior wall systems and rehabilitate the structural steel and concrete framing system. WDP performed structural analysis on the exterior light gage framing system, structural steel framing, and concrete structure of the building. Full contract documents were created, and construction administration and monitoring services were provided for the project. The overall scope of repairs included removal and replacement of the brick veneer, exterior light gage framing, exterior sheathing, sliding glass doors, flashing, and weather barrier systems. Repairs to the structural steel framing, steel guards, and concrete structure were also included as part of the project.

The JAG School renovation was an emergency procurement project for the University and presented many unique design and construction obstacles. Major interior renovations were ongoing during the discovery of deterioration of the exterior wall systems, which could not be stopped or delayed. WDP assisted the University in developing a plan to allow the interior renovations to continue while the design for repairs to the exterior walls was developed. In order to meet the needs of the University, the design documents had to be completed on a compressed schedule to turn the facility back over to JAG School personnel.

Additionally, portions of the building remained occupied while the renovations were completed, so WDP helped create a phasing plan to minimize disturbances to the occupants. The service life of the building was significantly extended by at least 30 years, allowing UVA to successfully negotiate a new 30-year lease of the facility with the US Department of the Army.



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.





4

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, Board of Directors

WV Symphony Orchestra, Board of Directors

Charleston Main Streets, Board of Directors

Charleston Municipal Planning Commission

Charleston Historic Landmarks Commission

PROJECT EXPERIENCE

Charleston Coliseum and Convention Center - Charleston, WV

Capital Sports Center - Charleston, WV

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

Charleston EDGE - 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

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

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

Wood County Justice Center - Parkersburg, WV

Wood County Resiliency Center - Parkersburg, WV

Jackson County AFRC - Millwood, WV

Morgantown Readiness Center - Morgantown, WV



REX CYPHERS

PE

Principal

Mr. Rex Cyphers, P.E., is a Principal and Chief Operating Officer with WDP & Associates Consulting Engineers working primarily out of the Hinton, West Virginia, and Charlottesville, Virginia, offices. He is responsible for overseeing the work of all WDP divisions, WDP's hiring process, staff development, and company operational decisions. Mr. Cyphers specializes in the design and repair of masonry structures, historic preservation, and nondestructive testing. He performs forensic field and laboratory investigations, façade and building envelope investigations, structural inspection/ analysis and design, architectural retrofit and repair, roofing and waterproofing investigations, and development of design documents and repair recommendations.

Mr. Cyphers regularly presents and co-authors for various technical publications.

EDUCATION

Master of Science, Civil Engineering
West Virginia University, 2003

Bachelor of Science in Engineering, Civil
Engineering, West Virginia University, 2002

LICENSURE

West Virginia, Virginia, Washington,
Pennsylvania, & Tennessee

AFFILIATIONS

ASTM Committee E06 Performance of
Buildings – Subcommittees:

- E06.24 Preservation and Rehabilitation
Technology

• Task Chair, ASTM E3069 –19 “Standard
Guide for Evaluation and Rehabilitation of
Mass Masonry Walls for Changes to Thermal
and Moisture Properties of the Wall”

• Task Chair, WK 70955, “Standard Guide
for Evaluation of Changes to the Thermal,
Moisture, and Ventilation Performance of
Existing Roof Enclosures (with Vented or
Sealed Attic or Rafter Spaces)”

PROJECT EXPERIENCE

Public Service Commission of West Virginia Headquarters, Building Envelope Assessment, Façade Investigation and Design - Charleston, WV

West Virginia GSD, West Virginia State Capitol Dome, Moisture Intrusion Investigation and Design - Charleston, WV

General Services Administration, Edward N. Cahn U.S. Courthouse & Federal Building, Roof Replacement Investigation and Design - Richmond, VA

General Services Administration (GSA), Byrne-Green Federal Complex, Façade Study, - Philadelphia, PA

Virginia Commonwealth University, School of Nursing, Window Leakage Investigation and Recommendation - Richmond, VA

West Virginia University, Engineering Sciences Building, Façade Investigation - Morgantown, WV

West Virginia University, Hodges Hall, Building Enclosure Evaluation-
Morgantown WV

West Virginia University Art Museum, Building Envelope Investigation, Condensation and Roof Repair - Morgantown, WV

The University of Virginia, Judge Advocate General (JAG) School, Structural and Façade Repair & Replacement - Charlottesville, VA

The University of Virginia John Paul Jones Arena, Building Envelope Moisture Intrusion Evaluation and Design - Charlottesville, VA



RODNEY PAULEY

AIA

Project Manager

Mr. Pauley oversees the daily design and production of the building, working in conjunction with in-house architectural and engineering staff to ensure the building not only meets the program requirements and budget, but meet the long-term needs of the owner. He also works directly with project principals to manage contracts, staffing and project deliverables. Mr. Pauley has a broad knowledge of building materials and services, building codes, construction techniques, and architectural detailing.

Mr. Pauley began his career in 1992 with a firm in Atlanta, Georgia, and for the next 12 years rose to the Associate level by designing and managing a wide variety of project types including educational, retail, historic renovation, medical, and entertainment, specializing in office and speculative office design. In 2010, Mr. Pauley moved back to Charleston, WV, as Project Manager for ZMM supervising design and production.

EDUCATION

Bachelor of Architecture
University of Tennessee - 1992

Associate of Science
West Virginia Institute of Technology, 1986

LICENSURE

West Virginia

AFFILIATIONS

West Virginia AIA Member

PROJECT EXPERIENCE

State Office Building #5 and #6 Renovations - Charleston, WV

WV State Capitol Senate Bathroom Renovations - Charleston, WV

Capitol Guard House - Charleston, WV

WV Lottery Headquarters - Charleston, WV

Charleston Coliseum and Convention Center - Charleston, WV

KRT Laidley Street Transportation Center and Ticket Office - Charleston, WV

INTUIT Prosperity Hub - Bluefield, WV

WV School of Osteopathic Medicine Multiple Projects - Lewisburg, WV

Wood County Resiliency Center - Parkerburg, WV

National Weather Center Building - So. Charleston, WV

Pipestem State Park Lodge Renovations - Piepsetem, WV

WVU Institute of Technology Renovations - Montgomery, WV

BridgeValley CTC Master Plan - Montgomery, WV

Previous Employment Experience:

Printpack Headquarters Office Building, Atlanta, GA

Gwinnett Professional Center II, Lawrenceville, GA

Central Square Government Complex - Albany, GA

McGinnis Park Office Building 100 and 200, Suwanee, GA

One Federal Place - Birmingham, AL

Department of Juvenile Justice

30 Allan Plaza - Southern Company HQ (Lobby and Corner Tower), Atlanta, GA



Robert Doeffinger

PE

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.

EDUCATION

Master of Science
The Pennsylvania State University, 1976

Bachelor of Science
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

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

PROJECT EXPERIENCE

Charleston Coliseum & 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



JAMES LOWRY

PE

Mechanical Engineer

Mr. Lowry is a registered Professional Engineer with design experience in:

Industrial:

Bayer Material Science, West Virginia Higher Education Policy Commission, Kuraray America, Armstrong Flooring, Covestro Laboratories.

Educational:

Renovations, evaluations and additions at Marshall University, West Virginia University Institute of Technology, Mercer County Schools and various other Schools and Universities statewide.

Commercial:

West Virginia Capitol Complex, West Virginia Parkways Authority

Health Care:

Renovations, evaluations and additions at Cabell Huntington Hospital, Charleston Area Medical Center, Charleston Surgical Center, West Virginia Department of Health & Human Resources, Huntington VA Hospital and other various healthcare facilities statewide.

EDUCATION

Bachelor of Science in Mechanical Engineering, West Virginia State University Institute of Technology, 2004

LICENSURE

West Virginia, Pennsylvania, Ohio & Maryland

ASHRAE Building Commissioning BCxP Certified

AFFILIATIONS

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

PROJECT EXPERIENCE

WVARNG - WV

- Mountaineer Challenge Academy South Renovations
- Kenova SCIF
- Camp Dawson Building 202
- STF Building B

WV State Capitol Building #6 - Charleston, WV

Capitol Guard House - Charleston, WV

Charleston Fire Department Fitness Center Assessment - Charleston, WV

GSD ASHRAE Building Assessment - Charleston, WV

GSD Consulting Survey-Elect Media - HVAC - Charleston, WV

The Greenbrier Chiller and HVAC Projects - White Sulphur Springs, WV

Marshall University - Huntington, WV

- Drinko Library Mechanical and Electrical Study
- Replacement Multizone HVAC
- Prichard Hall Chiller Replacement
- Drinko/Science Building
- Smith Hall Cooling Tower Replacement

Charleston Area Medical Center (Memorial) 6th Floor Fit-out, Boilers, Laboratory Renovations - Charleston, WV

Charleston Area Medical Center (General) Chiller Plant One-Line, and Chiller Replacement - Charleston, WV



JODI KNOROWSKI

PE

Project Manager

Ms. Knorowski joined WDP in 2013 and has over 9 years of experience providing professional design, building condition assessments, and construction administration services for post-occupancy failures of existing buildings related to the building envelope. She routinely performs diagnostic field investigations to determine the root cause of these failures in order to develop repair recommendations and to oversee the development of design documents.

In this process, she has utilized a variety of thermal and hygrothermal modeling techniques to analyze the long-term effects of heat and moisture movement through a wall or roof assembly. Jodi has also provided clients with construction monitoring services for new construction and performed quality assurance testing and observations of the structural, material, and architectural elements of the building envelope.

EDUCATION

Master of Science, Civil Engineering
Old Dominion University, 2012

Bachelor of Science, Civil Engineering,
Old Dominion University, 2010

LICENSURE

Virginia
Certifications: WUFI-ORNL 5.3 / WUFI-Pro 5.3
& Weather Analyzer 1.0
NFRC Certified Simulator

AFFILIATIONS

ASTM C16 Committee, Voting Member

ASTM E06 Committee, Active Participant

ASHRAE TC 4.4, Provisional Corresponding
Member

ASRHRAE SSPC 160 Criteria for Moisture-
Control Design Analysis in Buildings
("standing standard
project committee")

PROJECT EXPERIENCE

State of West Virginia GSD, Building 36 Façade Investigation and Design - Charleston, WV

Public Service Commission of West Virginia Headquarters, Façade Investigation & Design - Charleston, WV

State of West Virginia GSD, West Virginia State Capitol Dome, Moisture Intrusion Investigation & Design - Charleston, WV

General Services Administration, Edward N. Cahn U.S. Courthouse & Federal Building, Roof Replacement Investigation & Design - Richmond, VA

Virginia Commonwealth University, School of Nursing, Window Leakage Investigation and Recommendation - Richmond, VA

West Virginia University, Hodges Hall, Building Enclosure Evaluation-
Morgantown WV

West Virginia University Art Museum, Building Envelope Investigation, Condensation and Roof Repair - Morgantown, WV

University of Virginia, Bryan Hall, Window Leakage Investigation and Design - Charlottesville, VA

The University of Virginia John Paul Jones Arena, Building Envelope Moisture Intrusion Evaluation and Design - Charlottesville, VA

Snowshoe, Expedition Station, Façade Investigation and Design,
Snowshoe, WV

CARLY CHAPMAN

Senior 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.

EDUCATION

Bachelor of Interior Design
University of Charleston - 2012

PROJECT EXPERIENCE

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

Intuit Prosperity Hub - Bluefield, WV

Goodwill Industries - Parkersburg, WV

Wood County 911 Call Center - Parkersburg, 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

Manufacturing Plant Cab Trim Assembly Building - Dublin, VA



DAVID GUNNOE

PE, CAP

Electrical Engineer

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

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

EDUCATION

Bachelor of Science in Electrical Engineering,
WV University Institute of Technology,
2009

LICENSURE

West Virginia, Virginia, Texas, Michigan, &
Minnesota

ISA Certified Automation Professional (CAP)

AFFILIATIONS

Advisory Board Member, BridgeValley CTC
Electrical Engineering Technology Program

PROJECT EXPERIENCE

WV State Office Building #6 - Charleston, WV

WV State Police Headquarters - So. Charleston, WV

Wood County Resiliency Center - Parkersburg, WV

Wood County 911 Center - Parkersburg, WV

Frederick County Public Schools - Frederick County, VA

- **Middletown Elementary School HVAC Renovation**

- **Bass Hoover Elementary School HVAC Renovation**

- **Armel Elementary School HVAC Renovation**

Scott Memorial Middle School Addition - Wythe County, VA

New Frankfort PK-4 School - Mineral County, WV

New Clendenin Elementary School - Kanawha County, WV

Cabell County Career and Technical Center - Cabell County, WV

West Virginia School of Osteopathic Medicine - Lewisburg, WV

- **New Testing Center**

- **Community Health Center**

Roane-Jackson Technical Center Plumbing & Electrical Renovations -
Jackson County, WV



SHANNON SCOLFORO

E.I.T.

Staff Engineer II

Ms. Shannon Scolforo joined WDP in 2019 as a Staff Engineer after graduating from the University of Florida. Ms. Scolforo assists senior and project engineers in a myriad of tasks including hygrothermal analysis, field investigations and testing, project document review and development, and construction oversight.

Ms. Scolforo is trained in rope access, and is also trained in the use of Industrial Rope Access techniques on otherwise difficult to access building facades and unique structures.

EDUCATION

Bachelor of Science, Civil Engineering,
University of Florida, 2019

LICENSURE

Florida (Civil Engineer in Training)

AFFILIATIONS

American Society of Civil Engineers – Member

PROJECT EXPERIENCE

General Services Administration (GSA), Joseph F. Weis Jr. Courthouse, Facade Investigation & Repair Recommendations- Pittsburgh, PA

General Services Administration (GSA), Byrne-Green Federal Complex, Façade Study - Philadelphia, PA

West Virginia University, Hodges Hall, Building Enclosure Evaluation - Morgantown, WV

Virginia Commonwealth University, School of Nursing, Window Leakage Investigation and Recommendation - Richmond, VA

University of Virginia, Bryan Hall, Window Investigation & Repair Design - Charlottesville, VA

General Services Administration (GSA), Erie Federal Courthouse Complex - Erie, PA

3TWENTY3 Building, Building Envelope Consulting - Charlottesville, VA

The College of William & Mary, One Tribe Place, Facade Survey - Williamsburg, VA



RONNIE BURDETTE

PE

Structural Engineer

Mr. Burdette serves as a Structural Engineer at ZMM. The experience he has gained while at ZMM includes Educational (Additions/Renovation to existing structures and Construction of new structures), Municipal (Community Centers), and Residential projects. Mr. Burdette's responsibilities include design and analysis of structural systems and documentation of design results.

Project Experience:

Mr. Burdette has served as Structural Engineer on a variety of projects. His responsibilities included analysis and design of multiple building materials (Steel, Timber, & Concrete) and production of structural drawing sets.

EDUCATION

Bachelor of Science in Civil Engineering,
West Virginia University, 2015

Master of Business Administration,
University of Charleston WV, 2016

LICENSURE

West Virginia

PROJECT EXPERIENCE

New River Primary / Oak Hill Middle School - Oak Hill, WV

Valley Park Community Center - Hurricane, WV

Charleston EDGE - Charleston, WV

WV Department of Natural Resources - WV

- Tomblin Visitor's Center

- Tomblin Headquarters Building

- Tomblin Wildlife Viewing Tower

Wood County 911 Center - Parkersburg, WV

Valley Health Clinic - Milton, WV

Cabell County Schools - WV

- Huntington High School Renovations

- Midland High School Renovations

Wood County Resiliency Center - Parkersburg, WV

National Weather Service Building - S. Charleston, WV



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



JOE DOEFFINGER

Construction Administrator

Mr. Doeffinger has a background in Geology and is transitioning over to Construction Administrator. Joe is excited about the new ZMM offices in Blacksburg, VA and Martinsburg, WV, and the new projects this will afford. Mr. Doeffinger likes working with the team of various professionals and the support they offer.

Mr Doeffinger's projects have included nonprofit, education, federal, local government, and healthcare.

EDUCATION

Bachelor Degree, Marshall University,
2016

PROJECT EXPERIENCE

Kanawha County Schools - WV
- Clendenin Elementary School

Calhoun County Schools - WV
- Pleasant Hill Elementary School Roof Replacement and HVAC Renovations
- Barboursville Middle School Gymnasium Renovation

Putnam County Schools - WV
- Digital Surveillance upgrades

Jackson County Schools - WV
- Cottageville Elementary School
- Ripley Middle School

Raleigh County Schools - WV
- Stratton Elementary School
- Shady Spring Elementary School

Mineral County Schools - WV
- Keyser Middle School Roof Replacement and HVAC
- Frankfort Elementary School

Goodwill Industries - Parkersburg, WV

**Tug Valley ARH Regional Medical Center HVAC Renovation -
Williamson, KY**

**KRT Laidley Street Transportation Center and Ticket Office -
Charleston, WV**



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CLIENT REFERENCES

CLIENT REFERENCES



Greg Melton, Director (Retired)
General Services Division of WV
112 California Avenue
Charleston, WV 25305
304.965.1219 cell

Cheryl Ranson, Director of Administration
Public Service Commission of WV
201 Brooks Street
Charleston, WV 25301
304.340.0356

Blair Couch, Commissioner
Wood County Commission
1 Court Square #203
Parkersburg, WV 26101
304.834.0306 cell

Greg Melton, Director (Retired)
General Services Division of WV
112 California Avenue
Charleston, WV 25305
304.965.1219 cell

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

Mark Bott, Division Manager
Pullman Power LLC
WV State Capitol Dome Investigation/Design
180 Bilmar Drive - Suite #5
Pittsburgh, PA
412.505.7937

David Oliverio, Facility Manager
West Virginia Lottery
900 Pennsylvania Avenue
304.558.0500 x 224

Jacob Wyshinski, Project Manager
GSA, Byrne Green Facade Study
Philadelphia, PA
267.253.3269



Thank You

FOR REVIEWING THIS MATERIAL.

BLACKSBURG
200 Country Club Drive SW
Plaza One, Building E
Blacksburg, VA 24060

CHARLESTON
222 Lee Street West
Charleston, WV 25302
304.342.0159
ZMM.COM

MARTINSBURG
5550 Winchester Avenue
Berkeley Business Park, Suite 5
Martinsburg, WV 25405



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

State of West Virginia
Centralized Expression of Interest
Architect/Engr

Proc Folder: 1148169			Reason for Modification: Addendum No. 1
Doc Description: Bldg. 37 Window, HVAC, Roof, and Envelope Upgrades Project			
Proc Type: Central Contract - Fixed Amt			
Date Issued	Solicitation Closes	Solicitation No	Version
2023-01-20	2023-02-01 13:30	CEOI 0211 GSD2300000004	2

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code:

Vendor Name : ZMM Architects and Engineers

Address :

Street : 222 Lee Street, West

City : Charleston

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

Principal Contact : Adam Krason

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

FOR INFORMATION CONTACT THE BUYER
 Melissa Pettrey
 (304) 558-0094
 melissa.k.pettrey@wv.gov

Vendor Signature X  **FEIN#** 550676608 **DATE** February 1, 2023

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

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI GSD2300000004

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

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

Addendum Numbers Received:
(Check the box next to each addendum received)

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

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

ZMM Architects and Engineers

Company


Authorized Signature

February 1, 2023

Date

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



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

State of West Virginia
 Centralized Expression of Interest
 Architect/Engr

Proc Folder: 1148169			Reason for Modification:
Doc Description: Bldg. 37 Window, HVAC, Roof, and Envelope Upgrades Project			
Proc Type: Central Contract - Fixed Amt			
Date Issued	Solicitation Closes	Solicitation No	Version
2023-01-06	2023-01-25 13:30	CEOI 0211 GSD2300000004	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code:
Vendor Name : ZMM Architects and Engineers
Address : 222 Lee Street West
Street :
City : Charleston
State : WV **Country :** USA **Zip :** 25302
Principal Contact : Adam Krason
Vendor Contact Phone: 304.342.0159 **Extension:** 234

FOR INFORMATION CONTACT THE BUYER

Melissa Pettrey
 (304) 558-0094
 melissa.k.pettrey@wv.gov

Vendor Signature X

FEIN# 550676608

DATE January 31, 2023

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

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

(Company) AG RK

(Signature of Authorized Representative)

Adam Krason, Principal (January 31, 2023)

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

304.342.0159 / 304. 345.8144

(Phone Number) (Fax Number)

ark@zmm.com

(Email Address)