



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

State of West Virginia
 Centralized Expression of Interest
 02 - Architect/Engr

Proc Folder: 568443
 Doc Description: A/E Services for New District VI Office Complex
 Proc Type: Central Contract - Fixed Amt


Date Issued	Solicitation Closes	Solicitation No	Version
2019-04-08	2019-04-30 13:30:00	CEOI 0310 DNR1900000010	1

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

RECEIVED
 2019 APR 30 PM 12:27
 WV PURCHASING
 DIVISION

VENDOR
 Vendor Name, Address and Telephone Number:
 ZMM, Inc. (dba ZMM Architects and Engineers)
 222 Lee Street, West
 Charleston, WV 25302
 304-342-0159

FOR INFORMATION CONTACT THE BUYER
 Brittany E Ingraham
 (304) 558-2157
 brittany.e.ingraham@wv.gov

Signature X  FEIN # 55-0676608 DATE 4-30-2019
 All offers subject to all terms and conditions contained in this solicitation

West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: ZMM, Inc. Address: 222 Lee Street, West
Charleston, WV 25302

Name of Authorized Agent: Adam R. Krason Address: Same as Above

Contract Number: CEOI 0310 DNRI900000010 Contract Description: A/E Services for New
District VI Office
Complex

Governmental agency awarding contract: Department of Natural Resources

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract

Check here if none, otherwise list entity/individual names below.


2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

Check here if none, otherwise list entity/individual names below.

- ZMM, Inc., Robert Doeffinger
- ZMM, Inc., David E. Ferguson
- ZMM, Inc., Adam R. Krason

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)


Check here if none, otherwise list entity/individual names below.

Signature: 

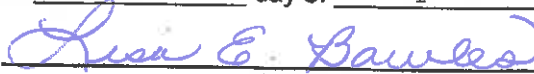
Date Signed: 4-30-2019

Notary Verification

State of West Virginia, County of Kanawha:

I, Adam R. Krason , the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 30th day of April, 2019

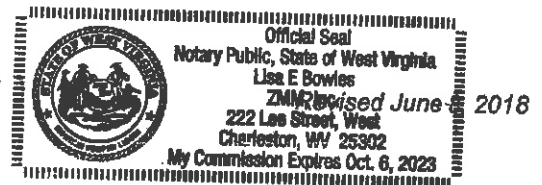

Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____



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.

ARK, PRINCIPAL
 (Name, Title)
Adam R. Krason, AIA, LEED, AP, Principal
 (Printed Name and Title)
222 Lee Street, West, Charleston, WV 25302
 (Address)
304-342-0159 304-345-8144
 (Phone Number) / (Fax Number)
ark@zmm.com
 (email address)

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

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

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

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

4-30-2019
 (Date)

304-342-0159 304-345-8144
 (Phone Number) (Fax Number)



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

State of West Virginia
 Centralized Expression of Interest
 02 — Architect/Engr

Proc Folder: 568443

Doc Description: Addendum 1 - A/E Services for New District VI Office Complex


Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2019-04-12	2019-04-30 13:30:00	CEOI 0310 DNR1900000010	2

BID RECEIVING LOCATION
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 DEPARTMENT OF ADMINISTRATION
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 2019 WASHINGTON ST E
 CHARLESTON WV 25305
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VENDOR
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FOR INFORMATION CONTACT THE BUYER
 Brittany E Ingraham
 (304) 558-2157
 brittany.e.ingraham@wv.gov

Signature X  FEIN# 55-0676608 DATE 4-30-2019

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ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI DNR19*10

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

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

ZMM, Inc. (dba ZMM Architects and Engineers)

Company



Authorized Signature

4-30-2019

Date

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

Revised 6/8/2012

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:

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

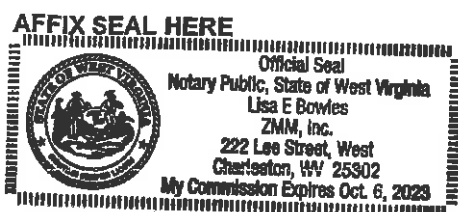
Authorized Signature: [Signature] Date: 4-30-2019

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 30th day of April, 2019.

My Commission expires 10-6, 2023.



NOTARY PUBLIC [Signature]

April 30, 2019

Ms. Brittany Ingraham, Senior Buyer
Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130



Subject: Statement of Qualifications – A/E Services for WVDNR District 6 – Proposed Office Complex (DNR190000010)

Dear Ms. Ingraham:

ZMM Architects and Engineers is pleased to submit the attached information to demonstrate our team's experience and qualifications to provide architectural, engineering, and construction phase services for the proposed WVDNR District 6 Office Complex in Parkersburg. Established in 1959, ZMM is a local architecture and engineering firm, and is noted for design excellence and client focus. Our team for this project continues a successful collaboration with EL Robinson - the same team that recently provided design services for the Forks of Coal Claudia L. Workman Fish and Wildlife Education Center and proposed lodge at Beech Fork State Park. Due to the depth of our design experience and the qualifications of our key team members, ZMM has become a respected and valued resource in the design and construction community in West Virginia. Relevant qualifications of our team include:

- **Experience.** ZMM has recent experience successfully collaborating with the West Virginia Division of Natural Resources (WVDNR) on the Forks of Coal project noted above, the District V Headquarters Improvements, the Tomblin WMA, as well as on the proposed Beech Fork Lodge. In addition to our experience collaborating with the WVDNR, ZMM has extensive experience providing design services in the Parkersburg area. This recent experience includes work for Wood County Schools (2016 Bond Issue, a new Williamstown Elementary School, additions to Williamstown MS/HS, and additions to the Wood County Technical Center) and work for the Wood County Commission (Judge Donald F. Black Courthouse Annex and the Wood County Justice Center).
- **Quality.** ZMM has a history of providing high quality design services throughout West Virginia. The quality of the services we provide is demonstrated by the number of our repeat clients, and the recognition of our work with both statewide and national planning and design awards. *In fact, ZMM has been recognized with sixteen statewide design awards in the past decade by the West Virginia Chapter of the American Institute of Architects – recognition of a commitment to design quality that is unrivaled in West Virginia.*
- **Talent.** With over thirty-five local (WV) employees ZMM provides an integrated design approach by delivering all building-related design services including architecture, engineering (structural, mechanical, and electrical), interior design, and construction administration in-house. ZMM's team includes seven registered architects, nine professional engineers (civil, structural, mechanical, and electrical), interior and lighting designers, and construction administrators. Our architects and engineers are industry

leaders, and have worked together to deliver projects with similar scope and complexity. ZMM's experience will be supplemented on this project by E.L. Robinson Engineering -a diversified civil engineering and planning firm with proven performance working with the WVDNR. ELR has successfully and creatively designed and completed top quality civil engineering solutions for 40 years in multiple states.

Thank you for taking the time to review the attached expression of interest that has been formatted to meet your requirements. Additionally, please visit our websites at www.zmm.com and www.elrobinsonengineering.com to see the full range of projects that we have designed, and to learn about working with ZMM from a client's perspective. We appreciate your consideration for this important endeavor.

Respectfully submitted,
ZMM Architects and Engineers



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



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LOCATION:
222 Lee Street, West
Charleston, WV

CONTACT:
Phone 304.342.0159
Fax 304.345.8144
www.zmm.com



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 from our office in Charleston. Our integrated design approach makes ZMM unique among architectural firms in West Virginia, and helps to ensure the quality of our design solutions by providing more thoroughly coordinated construction documents.

Over the last decade, ZMM has become a leader in sustainable or 'green' design in West Virginia. In addition to participating in sustainable design and construction seminars throughout the State (Beckley, Fayette County, Morgantown, Charleston, and Parkersburg), ZMM designed one of the first sustainable educational facilities in West Virginia (Lincoln County High School). ZMM's unique design approach has proven invaluable on projects that employ sustainable design principles, which often require a more integrated approach to building design.

As ZMM enters our second half-century providing professional design services in West Virginia, we remain committed to the ideal of providing high quality, client focused, design solutions that meet budget and schedule requirements. This commitment to quality has been recognized through both State and National design awards, as well as through the long-term client relationships that we have developed.



ZMM has been dedicated to the integrated approach to building design which is unique to architectural firms of our size. Our past successful experience demonstrates that providing multi-disciplined services within one organization results in a fully coordinated project. ZMM has the qualified professionals available to provide services throughout the duration of a project from the initial planning phases through post-occupancy evaluations and beyond.

Advantages of an integrated Design Approach:

- The Owner has a Single Point of Design Responsibility
- Improved Design Schedule
- Improved Coordination of Documents
- Improved Construction Phase Services
- Well Coordinated Documents Lead to Better Bids for the Owner

Additionally, ZMM is constantly working to improve the services we offer by addressing emerging and evolving trends that impact the design and construction market. ZMM has seven LEED accredited Professionals on staff to address the needs of our clients who are interested in designing buildings that meet the US Green Building Council's standards. This continues ZMM's active implementation of sustainable design principles on our projects.

Services

Pre-Design

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

Design

- Architectural Design
- Sustainable Design
- Interior Design
- Landscape Architecture
- Civil Engineering
- Structural Engineering
- Engineering (MEP)
- Energy Consumption Analysis
- Net Zero Design

Post Design

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



Award Winning Design



2018

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



2017

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



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



2016

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



AIA West Virginia Chapter: Merit Award
Achievement in Architecture
Gauley River Elementary School
Craigsville, West Virginia



2015

AIA West Virginia Chapter: Honor Award
Achievement in Architecture in Sustainable Design
Edgewood Elementary School
Charleston, West Virginia

AIA West Virginia Chapter: Merit Award
Achievement in Architecture
Kenna Pk-5 School
Kenna, West Virginia

Award Winning Design



2014

AIA West Virginia Chapter: Merit Award
Achievement in Architecture in Sustainable Design
Huntington East Middle School
Huntington, West Virginia

AIA West Virginia Chapter: Merit Award
Achievement in Architecture
Southern West Virginia Community & Technical College
Williamson, West Virginia

AIA West Virginia Chapter: Merit Award
Achievement in Architecture in Interiors/Graphics
Girl Scouts of Black Diamond Council
Charleston, West Virginia

2012

AIA West Virginia Chapter: Honor Award
Excellence in Architecture
West Virginia Housing Development Fund Building
Charleston, West Virginia

2011

AIA West Virginia Chapter: Honor Award
Excellence in Architecture in Historical Preservation
Southside Elementary/Huntington Middle School
Huntington, West Virginia

AIA West Virginia Chapter: Honor Award
Excellence in Architecture
Joint Interagency Training & Education Center
Kingwood, West Virginia

AIA West Virginia Chapter: Merit Award
Excellence in Architecture in Interiors
WV State Office Building #5, 10th Floor Renovation
Charleston, West Virginia



We come from humble beginnings and were founded and named after our president, Edward L. Robinson, P.E., P.S., in 1978. The company began as a small surveying firm with only four employees and has grown exponentially to what it is today – a highly diversified engineering and surveying firm with over 150 full time, experienced professionals and support personnel located in ten offices throughout West Virginia (Charleston, Beckley, Bridgeport, and Chapmanville), Kentucky, Ohio and North Carolina. Over the past four decades, E.L. Robinson has grown to be one of the most respected firms in the region, offering a diverse scope of services. E.L. Robinson provides a full range of quality engineering services, from planning and analysis to design and implementation.

We attribute much of our continued success to our commitment to complete customer service, unwavering quality, and innovative solutions. ELR prides itself on overcoming obstacles and adapting to changing times. The firm uses diligence and a dedicated work ethic to complete every project on time, on or under budget.

E.L. Robinson Engineering boasts of a highly skilled and professional staff. We know that in order to take care of our clients, we must also take care of our own employees. The firm maintains an unheard of employee retention rate. ELR pairs its past experience with the technology of the future to provide the most thorough and advanced engineering knowledge and skills.

The use of technology has allowed the firm to expand engineering capabilities and make use of new resources such as satellite imagery and digital mapping. In addition to the use of technology, E.L. Robinson also continues to strive to invent new and more effective ways to serve our clients. One of these ways is to provide a thorough pre-analysis of every project, saving the client time, money, and legal exposure. When the client is educated on every phase of the job and every challenge, the reputation of the firm grows stronger and attracts business from a larger marketplace.

Our Services

- Utilities Engineering
- Land Planning
- Transportation Engineering
- Landscape Architecture
- Construction Management
- Site Development
- Geotechnical Engineering
- Oil and Natural Gas
- Surveying and Technology



WVDNR District 6, Proposed Office Complex – Anticipated Concepts and Methods of Approach

Project Understanding

The Request for Expression of Interest indicates that the State of West Virginia Division of Natural Resources “owns a tract of land containing approximately 40 acres on Emerson Avenue, near Interstate 77, in Parkersburg.” The objective of the current project is to provide planning, design, and construction phase services for a new 6,500 SF District 6 office, with an adjacent building that will house lab space, as well as a storage and shop area.



ZMM has extensive experience working with the WVDNR and providing design services in the Parkersburg area. This recent experience includes work for Wood County Schools (2016 Bond Issue, a new Williamstown Elementary School, additions to Williamstown MS/HS, and additions to the Wood County Technical Center) and work for the Wood County Commission (Judge Donald F. Black Courthouse Annex and the Wood County Justice Center). Additionally, ZMM Architects & Engineers has assembled a project team that is capable of meeting the varied and unique needs of the project. As we have with recent work for the WVDNR, ZMM is collaborating with EL Robinson Engineering to provide the site/civil services, and Win Strock to assist with estimating. We are confident that this team provides the WVDNR with the best opportunity for a successful project. The full design team will include:

Team Member

ZMM Architects & Engineers

Role

Principal/PM
QA/QC
Architect
Interior Designer
Specification
Engineering Principal/PM
Structural Engineer
Electrical Engineer
Mechanical Engineer
Construction Admin.
Site/Civil Engineering*
Estimating

Proposed Staffing

Adam Krason, AIA, LEED-AP
David Ferguson, AIA
Nathan Spencer, AIA, Billy Simms
Carly Chapman
Mark Epling, AIA
Bob Doeffinger, PE
Mike White, PE, Ronnie Burdette
Scot Casdorff, PE
Sam Butzer, PE, John Pruett, PE
Falena Perry
Brandon Conley, PE
Win Strock

EL Robinson
Win Strock

*Site/Civil Engineering Services will include utility extension, site work, and environmental permitting.

Many members of our proposed team recently collaborated on the design of the proposed Forks of Coal Claudia Workman Fish and Wildlife Education Center, the proposed Beech Fork Lodge, and the District V Headquarters projects. This experience working with the DNR helped to establish a relationship where our team functioned as an extension of the DNR, with a singular focus of implementing your vision for the project. We propose a similar relationship for the WVDNR District 6 Office Complex. Below, please find additional



information regarding our proposed project communication protocol, budget control, construction timeframe control, and our experience in professional disciplines required to successfully deliver the project.

Project Communication

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

During the construction phase additional resources will be added to ensure prompt and efficient responses to any issue that may arise. The project architect, Nathan Spencer, AIA will coordinate the effort of the design team, and will be assisted by Falena Perry. Additionally, all submittals, pay applications, and RFI's will be logged and tracked by ZMM's construction administrative coordinator, Amy Rhodes. Ms. Rhodes will update the entire project team (WVDNR, ZMM, and Contractor) weekly regarding outstanding items.

Budget Control

Our team has been providing professional design services in West Virginia for sixty years. Over this time we have developed a thorough understanding of the various construction markets and associated bidding regions that exist throughout West Virginia, but with a focus on projects in the Parkersburg area. Our team for this project will include Win Strock, a former contractor that regularly provides independent estimates to ZMM. Mr. Strock and ZMM have successfully collaborated on the following projects:



- District V Headquarters
- Forks of Coal Claudia Workman Fish and Wildlife Education Center
- Beech Fork Lodge
- Coonskin Park Maintenance Building
- Williamstown Elementary School
- Williamstown MS/HS Addition
- Wood County Tech Center Addition
- Clendenin Elementary School
- Edgewood Elementary School
- Jackson County Armed Forces Reserve Center
- Logan-Mingo Readiness Center
- Morgantown Readiness Center
- State Police Information Services Center
- State Office Building 5 & 6 Renovations – Various Projects

The design team, with the assistance of Mr. Strock will evaluate the projected cost at the end of each phase, confirming the estimate with recent experience and historical bidding data. Recent experience demonstrating our ability to control the project budget includes:

- Smith Hall Renovation, Marshall University
\$400K under \$1.2M Budget
- Williamstown Elementary School, Wood County BOE
\$1.3M under \$14.1M Budget
- Oak Hill Pre-K-2, Fayette County BOE
\$1M under \$11.2M Budget
- Shawnee Park, Kanawha County Commission
\$2M under \$15M Budget



Construction Duration

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

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

Experience with Each Required Discipline

ZMM Architects and Engineers has assembled a team to meet all of the unique requirements of the project. Our team is comprised of some of the leading professionals in West Virginia, and is experienced in each required discipline needed to deliver the project. With over thirty-five local employees, and supplemented with the expertise of EL Robinson, ZMM provides an integrated design approach by delivering all building-related design services including architecture, engineering (structural, mechanical, and electrical), interior design, and construction administration in-house. ZMM's team includes seven registered architects, eight professional engineers (structural, mechanical, and electrical), interior and lighting designers, and construction administrators. Our architects and engineers are highly qualified, and have worked together to deliver projects with similar scope and complexity. **Additionally, the quality of ZMM's design effort has been recognized by the American Institute of Architects West Virginia Chapter with sixteen design awards in the last decade – an achievement that is unrivaled in West Virginia.**



Summary

Our team possesses the relevant design experience, recent WVDNR experience, Parkersburg area design experience, and project approach to ensure the successful delivery of the WVDNR District 6 Proposed Office Complex for the West Virginia Division of Natural Resources. Our team's previous experience collaborating with the WVDNR, our commitment to design quality, and our approach to control the project budget and schedule makes us the right partner for this engagement.

Claudia L. Workman Fish and Wildlife Education Center

Forks of Coal State Natural Area



E.L. ROBINSON
ENGINEERING

LOCATION:
Alum Creek, WV

CONTACT:
Bradley Leslie, PE
Assistant Chief
WVDNR
State Parks Section
324 4th Avenue
So. Charleston, 25303
304.558.2764 x 51823

SIZE:
7,000 SF

COST:
\$5M Est.



The ZMM/EL Robinson team has provided preliminary site and building design for the Claudia L. Workman Fish and Wildlife Education Center at the Forks of Coal Natural Area. Services include the development of a property survey, topographic mapping, site analysis, review of existing infrastructure and required utility upgrades, preliminary entry road and parking design, site master planning and key development renderings, site development cost estimates, and trail mapping. Our team also coordinated preliminary planning phase services with environmental, architectural, exhibit design and marketing team members.

The new facility, the Claudia L. Workman Fish and Wildlife Education Center, is a nearly 7,000 SF building nestled in the beautiful West Virginia landscape. The building layout concentrates on both the visitor and user experience while creating a dynamic space to celebrate some of West Virginia's greatest natural treasures. One of the key concepts of the building is to represent our wild and wonderful state by incorporating natural materials such as stone, a variety of woods, and other natural finishes.

A central axis is formed by the main entrance, the lobby, and a small exterior platform which frames an inspiring view. This central space sets the tone for the visitor's experience with heavy timber, vaulted ceilings, and natural light.



Claudia L. Workman Fish and Wildlife Education Center

Forks of Coal State Natural Area



The versatility of the space also allows for a variety of uses ranging from a large open assembly area, to an additional display area that flows seamlessly into the exhibit space.

Upon entering the building, non-exhibit spaces are organized for intuitive navigation and ease of use. The northwest quadrant of the building is dedicated to administration, and to a classroom function, as well as a chair/table storage room that is strategically placed to serve both the classroom and/or the large central space. The southwest quadrant is primarily composed of utilitarian spaces such as accessible restrooms, a data closet, a mechanical room, and a large corner conference room highlighted by natural light and views. Additional basement space below the first level may serve as storage, and could also provide room for electrical and additional mechanical space as necessary. The site topography allows for easy access to a lower level, and locating utilitarian spaces on this level works perfectly with the building placement.

The entire eastern half of the building is devoted to exhibit space. The layout will allow one large expansive space or be used as multiple smaller spaces to allow visitors to interact within one space, while creating the opportunity in another space for exhibits to be updated. The angled walls, placement of exterior glass, and door placement creates a naturally vibrant exhibit space as the outdoors become part of the exhibit experience as a large elevated deck spans across the landscape, creating the ultimate viewing platform for the breathtaking views of the Forks of Coal Natural Area.

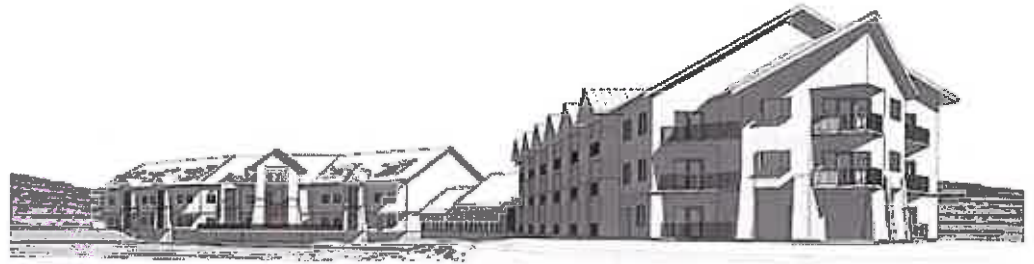


Beech Fork State Park Lodge

Lodge Design



E.L. ROBINSON
ENGINEERING



LOCATION:

Wayne, WV

COMPLETION:

TBD

COST:

Est. \$34M

CONTACT:

Bradley Leslie, PE

Assistant Chief

WVDNR

State Parks Section

324 4th Avenue

So. Charleston, 25303

304.558.2764 x 51823

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

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

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



Holly River State Park Wastewater Treatment



E.L. Robinson was retained by the West Virginia Division of Natural Resources, Parks and Recreation to provide planning, design and construction administration services for a new waste water treatment plant for Holly River State Park in Webster County, West Virginia.

The existing treatment plant was replaced by a 2,000 gallon per day package plant, with new controls and electrical equipment. The new plant serves part of the campground.

CLIENT:
West Virginia Department of
Natural Resources, Parks and
Recreation

Brad S. Leslie, P.E.
Assistant Chief West Virginia
Division of Natural Resources
State Parks Section
324 4th Avenue
South Charleston, WV 25303
Phone:304.558.2764 Ext. 51823
E-Mail: bradley.s.leslie@wv.gov

COMPLETION DATE:
1999

PROJECT COST:
\$66,000

OUR ROLE:
Design and Construction
Observation

Cacapon Resort State Park

WV Division of Natural Resources



LOCATION:
Berkeley Springs, WV

SIZE:
7,600 SF New
8,100 SF Renovated

COMPLETION:
1998

COST:
3,200,000

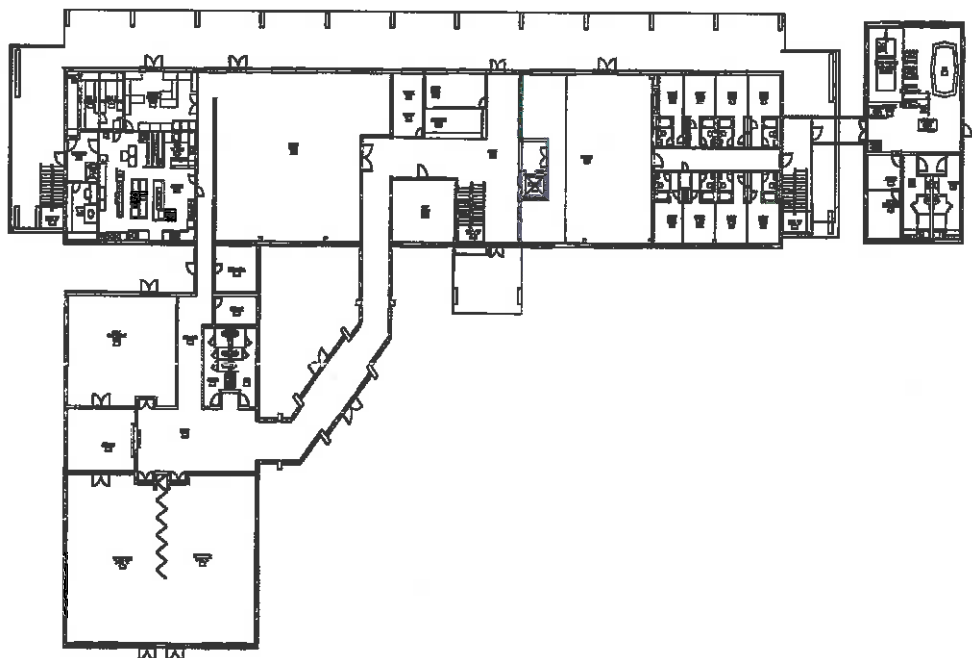
CONTACT:
Tom Ambrose
Superintendent
818 Cacapon Lodge Drive
Berkeley Springs, WV
304.258.1022



In 1998 ZMM completed an addition and renovation project to Cacapon State Park Lodge Building. This project included a new 7,600 SF conference center, providing a large 3,000 SF dividable conference room, a smaller 1,000SF conference room with connecting entrance lobby, toilets and storage facilities.

The existing kitchen facility was enlarged and renovated to provide banquet capabilities. An elevator was added to improve access to upstairs bedrooms and downstairs multi-use areas. The downstairs multi-use and meeting area were renovated along with the reception and office area.

Bid documents were prepared for a 2,500 SF health spa addition to the lodge building, but this portion of the project was not constructed. Other ZMM projects completed at Cacapon State Park include life safety compliance renovations to the WPA Old Inn building and a 4 bedroom cabin that is ADA accessible.



Blackwater Falls State Park Sewage Treatment Plant Replacement



CLIENT:
West Virginia Division of
Natural Resources, Parks and
Recreation

Brad S. Leslie, P.E.
Assistant Chief West Virginia
Division of Natural Resources
State Parks Section
324 4th Avenue
South Charleston, WV 25303
Phone:304.558.2764 Ext. 51823
E-Mail: bradley.s.leslie@wv.gov

COMPLETION DATE:
2008

PROJECT COST:
\$600,000

OUR ROLE:
Design and Construction
Observation

E.L. Robinson Engineering Co. was contracted by the West Virginia Division of Natural Resources, Parks & Recreation to design a new concrete sewage treatment plant which eliminates the potential for rust. The new plant also uses ultraviolet disinfection and provides a sand filter prior to discharge into the Blackwater Canyon.

The new plant was constructed adjacent to the existing plant. E.L. Robinson's design kept the existing plant in service during construction. A new building was also designed to match the building housing the existing plant.



Blackwater Falls State Park

WV Division of Natural Resources



LOCATION:
Davis, WV

COMPLETION:
1998

COST:
\$2,600,000

SIZE:
10,400 SF Addition

CONTACT:
Robert Gilligan
Park Superintendent
P.O. Drawer 490
Davis, WV 26260
304.259.5216



ZMM completed an addition and renovation to the historic Blackwater Falls State Park lodge building. This project included a 5,400 SF conference center addition providing a large 3,000 SF dividable conference room, entrance, lobby, toilets, and storage facilities.

To meet the owner's intent of reducing the visual impact of the construction, ZMM utilized existing building roof lines and materials for the building addition, which compliments to the original lodge design.

A 5,000 SF spa addition was added to the North Western end of the building provide a swimming pool, large Jacuzzi and a glass walled exercise area with locker rooms/showers. Interior office areas were also renovated with upgrades to mechanical, electrical, and fire alarm systems.

West Virginia State Parks Accessible Cabins



CLIENT:
West Virginia Division of
Natural Resources Parks and
Recreation

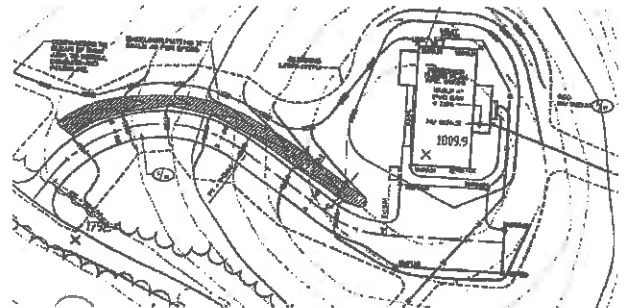
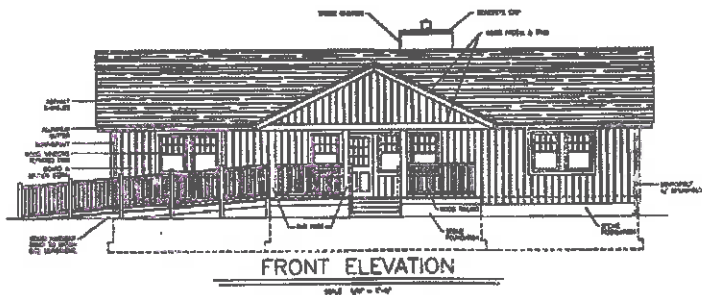
Brad S. Leslie, P.E.
Assistant Chief West Virginia
Division of Natural Resources
State Parks Section
324 4th Avenue
South Charleston, WV 25303
Phone:304.558.2764 Ext. 51823
E-Mail: bradley.s.leslie@wv.gov

LOCATIONS:
Greenbrier State Forest,
Pipestem State Park, Twin Falls
State Park, Bluestone State
Park, Babcock State Park, Holly
River State Park, Watoga State
Park, Seneca State Forest,
Kumbrabow State Forest,
Blackwater Falls State Park,
Tygart Lake State Park, Lost
River State Park, Cacapon State
Park.

As part of a \$100 million bond issued for the state wide public improvements, WVDNR retained E.L. Robinson's landscape architects to prepare construction documents for 16 new handicapped accessible cabins throughout the state park system. Many of the sites were located adjacent to the existing cabins where slope, vegetation and drainage site considerations significantly impacted the cabins' site design requirements for meeting the ADA guidelines.

The end result created an overall inviting and visually stimulating atmosphere where people of any physical ability will have equal opportunities to partake in all site experiences offered at the state parks and forests.

This project was completed by E.L. Robinson's landscape architects prior to their affiliation with the firm.



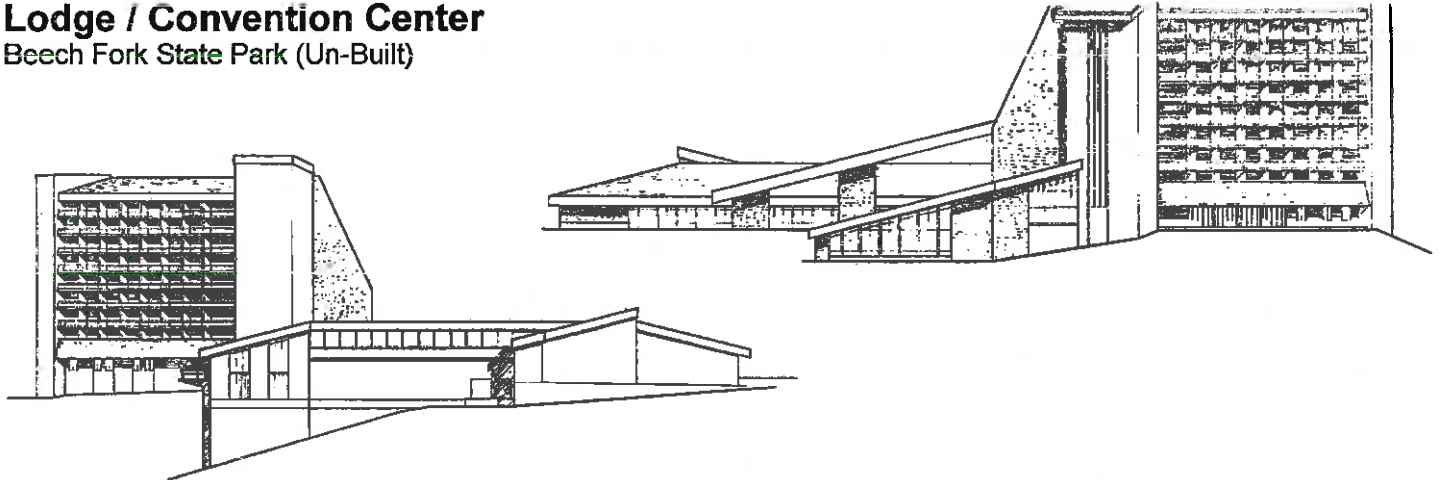
Additional WV State Park Experience

WV Division of Natural Resources



Lodge / Convention Center

Beech Fork State Park (Un-Built)



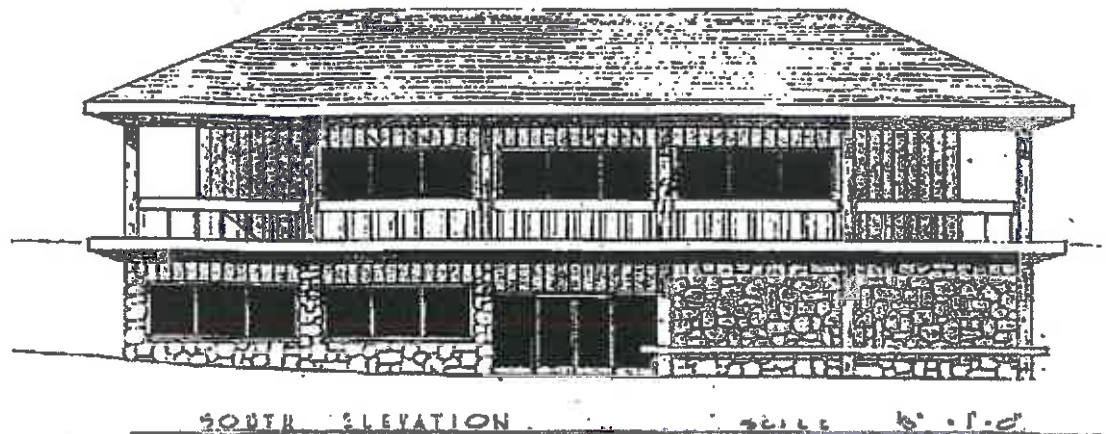
Miscellaneous Services:

Pipestem State Park
Hawks Nest State Park

Twin Falls State Park

Lodge and Convention Facility
Expansion Master Plan

- 25,000 SF Increasing Room Capacity from 20 to 50 Rooms
- The Expansion Increases the Dining, Kitchen, and Meeting Space for up to 200 People



Tygart Lake State Park Wastewater Treatment Plant



E.L. Robinson Engineering Co. was retained by the West Virginia Division of Natural Resources, Parks and Recreation, to provide planning, design and construction administration services for a new waste water treatment plant for Tygart Lake State Park near Grafton, West Virginia.

The existing treatment plant was replaced by an 8,000 gallon per day package plant, with new controls and electrical equipment. The new plant serves the lodge. A concrete retaining wall was also constructed due to poor soil conditions at the plant site.

CLIENT:
West Virginia Division of
Natural Resources, Parks and
Recreation

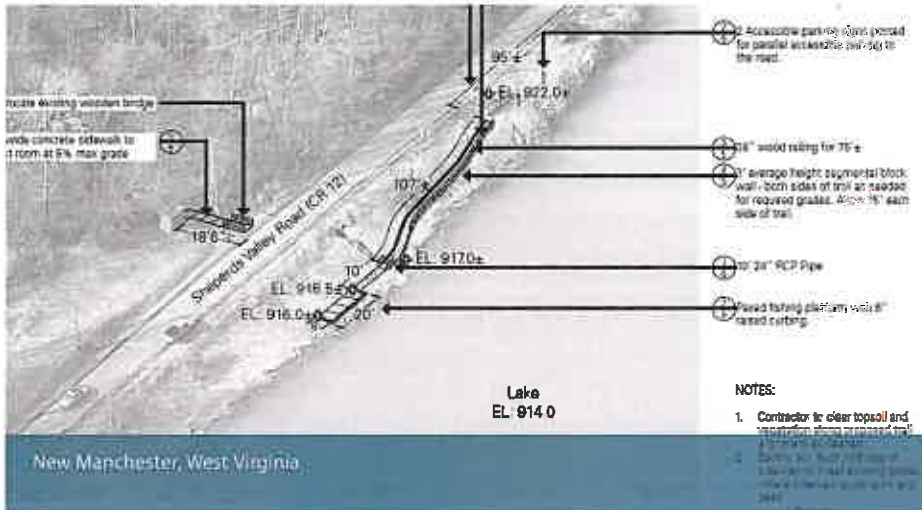
Brad S. Leslie, P.E.
Assistant Chief West Virginia
Division of Natural Resources
State Parks Section
324 4th Avenue
South Charleston, WV 25303
Phone:304.558.2764 Ext. 51823
E-Mail: bradley.s.leslie@wv.gov

COMPLETION DATE:
1998

PROJECT COST:
\$118,000

OUR ROLE:
Design and Construction
Observation

Tomlinson Run State Park Accessible Fishing Site



CLIENT:
WV Division of Natural
Resources

Mr. Brad Leslie, P.E.
Assistant Chief
West Virginia Division of
Natural Resources Parks and
Recreation Section
324 4th Avenue
South Charleston, WV 25303

COMPLETION DATE:
December 2015

PROJECT COST:
\$57,767 est

OUR ROLE:
Site design, material selection,
construction documents, and
construction observation

ELR prepared construction documents for an accessible walkway meeting ADA guidelines from an existing parking area to the water edge. A 5' wide sidewalk within segmental block retaining walls and railing will be constructed to an enlarged 8' by 20' concrete paved area. A curbed barrier along the water edge of the paved fishing area allows close proximity to the park's lake for fishing. Additional elements included an accessible paved route to an existing restroom and appropriate signage.

Beech Fork State Park Lodge Development



CLIENT:
West Virginia Division of
Natural Resources

PROJECT COST:
Total Architecture & Site
Related Cost \$35 Million

OUR ROLE:
Site feasibility, studies,
preliminary design, lead
consultant involving civil,
structural, transportation,
geotechnical engineering,
landscape architecture with
additional services from other
consultants.

West Virginia Division of Natural Resources has considered a lodge for Beech Fork State Park since before it was opened in 1979. Several studies were completed in the past examining six possible sites for lodges ranging in size from 75 to 150 rooms. The last studies completed in 1995 recommended a 150 room lodge at Stowers Branch.

WVDNR retained E.L. Robinson's landscape architects in 2008 to study a new site near the Beech Fork Lake dam and marina for the feasibility of building a 35, 50, or 75 room lodge. This study found from earth work calculation, cost estimates, and slope analysis maps that the Stowers Branch site was still the most desirable based on costs, proximity to the lake, and visual impact on the park.

In 2013, WVDNR retained the team of E.L. Robinson Engineering and ZMM Architects to prepare construction documents for a 75 room lodge at the Stowers Branch location. This site is located near the swimming beach owned and operated by US Army Corps of Engineers and two miles by road from the Beech Fork Lake Dam. In 2015, the project was put on hold after completion of the design development phase due to state budget issues.



Forks of Coal State Natural Area/Claudia L. Workman Wildlife Education Center



CLIENT:
West Virginia Division of
Natural Resources

COMPLETION DATE:
2019

**ESTIMATED CONSTRUCTION
COST:**
\$7 Million

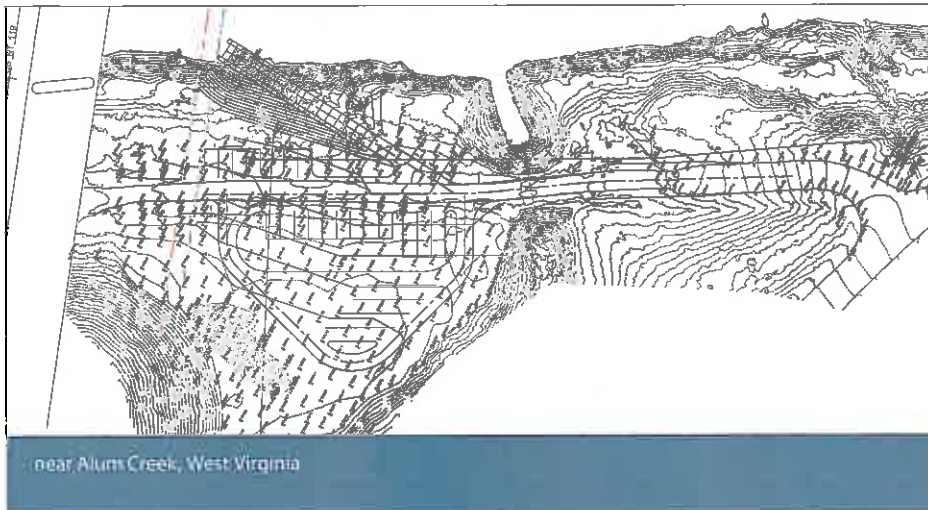
WVDNR retained E.L. Robinson in 2015 to prepare a master plan for this 100 plus acre site donated to the State of West Virginia for the development of the state's first natural area. The site is located at the forks of the Big Coal and Little Coal River, approximately twenty miles from downtown Charleston.

In 2015, WVDNR retained the team of E.L. Robinson Engineering and ZMM Architects to prepare construction documents for the Forks of Coal Natural Area and the Wildlife Education Center.

This site related elements ELR will design are:

- Access road off US 119 and car and bus parking area for the Claudia L. Workman Wildlife Education Center
- Site development for the Education Center including entry courtyard and outdoor classroom/amphitheater
- Entry sign
- Trailhead parking
- Waterline extension from the Lincoln County PSD and an onsite sewage treatment facility for the education center
- Landscape plans for the center
- Other pedestrian linkages

Little Coal River Boat Ramp at Lincoln / Kanawha County Line near Alum Creek, WV



CLIENT:
West Virginia Division of Natural
Resources

Brad S. Leslie, P.E.
Assistant Chief - West Virginia
Division of Natural Resources
State Parks Section
324 4th Avenue
South Charleston, WV 25303
Phone: 304.558.2764 Ext. 51823
E-Mail: bradley.s.leslie@wv.gov



WVDNR retained E.L. Robinson in 2017 to prepare survey, geotechnical evaluation, and construction documents for upgrades of this existing access site near the US 119 Bridge off of County Route 8.

The site related elements ELR will design are:

- Upgrade the existing road into the site.
- New concrete ramp built to the river's edge to allow for vehicles with boats easier water access to unload via trailer or roof racks.
- Entry sign.
- Parking for vehicles and trailered vehicles.
- Gates to prevent public access under US 119 Bridge.

Stonewall Jackson Lake Resort



CLIENT:
McCabe - Henley Properties for
West Virginia State Parks

Mr. Rudy Henley
West Virginia Commercial
LLC 305 Washington St. West
Charleston, WV 25302
Phone: 304.347.7500

COMPLETION DATE:
2003

PROJECT COST:
\$35 Million

OUR ROLE:
Master Planning, Site
Construction Design, Permit
Coordination.

Stonewall Jackson Lake State Park represents a new beginning for state supported recreation development in West Virginia. The 35 million dollar

Resort planned by E.L. Robinson's landscape architects as part of the developer's team, was the first public/private partnership formed in the state for the development of facilities at a state park. The developer was responsible for coordinating all design and construction activity, while the state assisted in the financing package.

ELR landscape architects were responsible for master planning and site construction design for the 2,000 acre resort, including a 180-room lodge, an 18-hole signature golf course by Palmer Course Design Co., a 100-unit campground, cabins, day use improvements, a swimming pool, trails, access and parking. The firm was also responsible for permit coordination with the various state and federal agencies for wetlands, riparian corridors, utilities, stormwater and erosion controls. An extensive tree preservation and relocation program was planned and was coordinated by the firm.

This project was completed by E.L. Robinson's landscape architects prior to their affiliation with the firm.



Stonewall Jackson Resort Park Pedestrian Bridge



CLIENT:
West Virginia Division of
Natural Resources

James G. Schotsch, P.E.
WVDNR-Parks and Recreation
1200 Harrison Ave, Ste. 222
Elkins, WV 26241
Phone:304.637.0301
E-Mail: james.g.schotsch@
wv.gov

COMPLETION DATE:
2011

PROJECT COST:
\$400,000

OUR ROLE:
Site design, structural
engineering, landscape
architecture, construction
documents, bidding and
construction observation.

West Virginia DNR received grant to build a pedestrian bridge approximately 900 feet across the lake from the lodge to the campground. An initial concept plan was developed for the bridge in 2008 which serves as the basis of the final design which EL Robinson was retained to develop.

The final bridge was a 10' wide timber pile bridge with appropriate wooden decking and handrail. The accessible approach on the lodge side was previously completed, and the contractor connected the main bridge span to that existing approach. At the campground end of the bridge an alignment was designed that allowed for the Resort to build that accessible approach separate from the main bridge construction. The bridge is now complete and provides an excellent example of form and function in a natural and scenic setting.



Wood County Justice Center



LOCATION:
Parkersburg, WV

SIZE:
32,000 SF

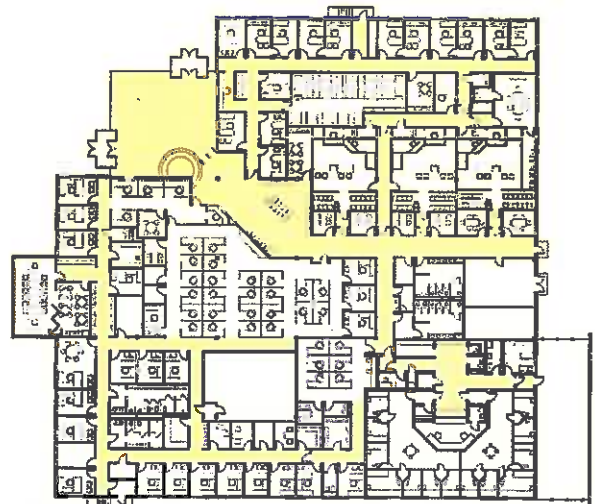
COMPLETION:
2011

PROJECT COST:
\$5M

CONTACT:
Mr. Blair Couch
Commissioner
No. 1 Court Square
Suite 205
Parkersburg WV 26101
304.424.1984
dbc@woodcountywv.com



This project was an extensive renovation of a 15 year old, 32,000 square foot, single story office building located in downtown Parkersburg, West Virginia. The building was purchased by the Wood County commission with the purpose of bringing together 3 government functions that had outgrown the 3 separate buildings that they occupied.



The renovated building consists of offices and 3 Courtrooms for the County's Magistrate Court system, public service windows for document pick-up and payment of fines, offices for the Sheriff's Department and Home Confinement and a 12-hour Inmate Holding Center.

Due to the building's new use, the interior was completely demolished leaving only the shell. The building's main entrance was relocated and redesigned to provide a new, more prominent identity to the building and to align with the new parking area created by the demolition of the adjacent existing magistrate court building. The old HVAC system was removed and replaced with a more energy efficient system and new, energy efficient lighting was installed. The project was designed around the U.S. Green Building Council's New Construction and Major Renovation Guidelines and is LEED Silver Certified.

Judge Donald F. Black Courthouse Annex

Wood County



LOCATION:
Parkersburg, WV

SIZE:
36,828 SF

COST:
\$3.5M

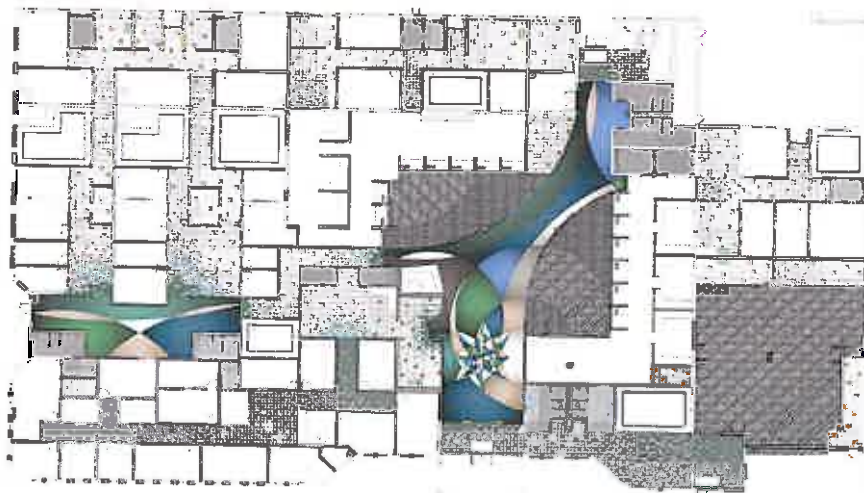
COMPLETION:
2005

CONTACT:
Mr. Blair Couch
Commissioner
No. 1 Court Square
Suite 205
Parkersburg WV 26101
304.424.1978



The Judge Black Annex project involved renovating an existing commercial building into county office and courtroom space for the Sheriff's Tax Office, Assessor's Office, Prosecuting Attorney's Office, and the Family Court. The design provided both secure and non-secure circulation, while taking advantage of the existing structural configuration to create large open volumes that lend the building prominence.

The interior design utilized rich colors and dramatic visual accents in public areas, with finishes selected for durability. Layered planes of varying colors accent the building's depth, and skylights provide daylight to county staff throughout the renovated office areas. Exterior improvements included the elimination of an existing storefront system as well as a change in the fenestration, to more closely match the existing courthouse and to change the character and typology of the existing facility.



Additional Wood County Experience



Wood County Bond Program (2016): ZMM assisted Wood County Schools in passing their bond to fund the new Williamstown Elementary, additions/renovations to Williamstown High School, and additions and renovations to the Wood County Vocational Center.

Williamstown Elementary School

Williamstown MS/HS Addition

Wood County Technical Center



State Office Building #5, 10th Floor

Office of Technology



LOCATION:
Charleston, WV

SIZE:
22,000SF

COST:
\$3.7M

COMPLETION:
2010

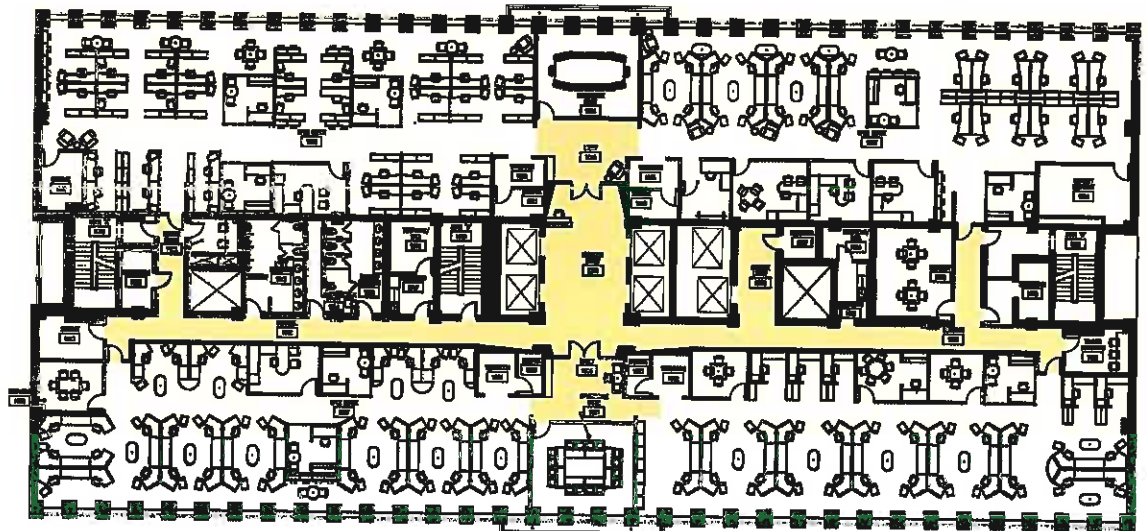
CONTACT:
Ross Taylor
Cabinet Secretary
Department of Admin.
Building 1, Room E119
Charleston, WV 25305
304.558.4331

AWARD:
2011 AIA Merit Award
West Virginia Chapter
*Achievement in
Architecture Interiors*



The renovation of the tenth floor of State Office Building #5 on the State of West Virginia Capitol Campus was recently completed for the Office of Technology. The renovation was designed to meet the United States Green Building Council's LEED for Commercial Interiors standard. To commence the project, ZMM conducted a detailed investigation of State Office Buildings 5, 6, & 7, which included recommendations for improvement of the facilities. The renovation of the 10th floor of Building #5 was the first major interior renovation project that responded to the recommendations. The renovation was technically intensive, and included demolition of the existing construction back to the building structure, as well as significant hazardous material abatement.

ZMM, working with the State of West Virginia General Services Division, the Real Estate Division, and the Office of Technology developed a strategy to renovate 22,000 SF of space to accommodate 137 employees. The design includes a mix of private and open office space, and responds to current workplace trends. The renovations include a low profile cable management system which maximizes the flexibility of the space. ZMM also developed the interior, furniture, fixture, and equipment design with significant coordination with the Office of Technology.



State Office Building #5, 10th Floor



To improve the opportunity for daylighting, office spaces have been “pulled-in” to the core of the building. This decision will allow for daylight to be introduced deep into the interior work areas, and will allow access to the daylight and views for all employees. The perimeter structural bays of the open office areas have a “coffered” ceiling. Ductwork for mechanical distribution is terminated at a bulkhead at the interior edge of the perimeter structural bay, allowing for more open volume and a more contemporary aesthetic.

The design of the 10th floor renovation also provided the opportunity to introduce a standard “transverse” core will be developed throughout State Office Buildings 5 & 6. The transverse core includes all of the major entry, meeting, and workroom functions. In addition to the office areas, the elevator lobby has been updated to create a consistent look and level of finish at the entry point to the Office of Technology.



West Virginia Housing Development Fund



LOCATION:
Charleston, WV

SIZE:
36,000 SF

COST:
\$8.5M

COMPLETION:
2011

CONTACT:
Nancy Parsons,
Senior Director
5710 MacCorkle Ave, SE
Charleston, WV 25304
304.345.6475

AWARD:
2012 AIA Honor Award
West Virginia Chapter
Excellence in Architecture



New offices for the West Virginia Housing Development Fund (WVHDF) were developed in the Kanawha City neighborhood of Charleston on a former Brownfield site. The new building sits on two acres and houses private offices and open offices for over 100 employees, an educational training room for staff and clients, staff exercise room, executive library, and boardroom.



The result is a unique contemporary design that differentiates itself from other office buildings in the neighborhood. Glass and insulated metal panels surround three sides of the building in a subtle checkerboard pattern. Red brick grounds the educational side in tradition, yet the alternating pattern adds another subtle, modern touch.

The signature entry is defined by the two-story white brick wall projecting from the primary building envelope. The lobby on the first floor and the executive director's office on the second floor are the focal points of a common corridor housing an elevator, restrooms and mechanical/electrical spaces. The interior color scheme is based on a light gray and white background. Punctures of color enhance the employees break room and accent the entrance to the executive office area.

A primary goal of the new building was to create light, bright and easily accessible spaces. Private offices are located in the center spine along the length of the building. Glass office fronts and glass doors offer in daylight from exterior glazing. The combination of glass panels and sliding doors marries employee's needs for daylight and visual privacy. A high ceiling in the open office area maximizes daylight, while sunshades on the exterior control it. The interior lighting has solar sensors and automatically dims according to the natural light levels.

The result of the attention to detail is a mitigated Brownfield site that allows for plenty employee parking spaces, plus easy access for clients; an energy efficient and day light-flooded building that has increased staff well being; a clean, sophisticated design both outside and inside; and a modern addition to the city streetscape.



Girl Scouts of Black Diamond Council

Volunteer Resource Center and Girl Zone/Urban Camp



LOCATION:
Charleston, WV

SIZE:
27,928 SF

COST:
\$5M

COMPLETION:
Fall 2013

CONTACT:
Beth Casey, CEO
GSBDC
321 Virginia Street, W.
Charleston, WV 25302
304.345.7722

AWARDS:
2014 AIA Merit Award
West Virginia Chapter
*Achievement in
Architecture
in Interiors/Graphics*



Interior Before Pictures



The New Girl Scouts of Black Diamond Council Volunteer Resource Center and Girl Zone/Urban Camp is located on the West Side of Charleston, WV. The 24,650 SF project completely renovates and upgrades the existing buildings at 321 Virginia Street. The buildings were built in the early and mid-1900's, and were used as a car dealership showroom and parts building until 2008. By the time the Girl Scouts took possession of the building, it had fallen into a state of disrepair. The facility required environmental remediation, and the entire roof structure was damaged and had to be removed.

The Girl Scouts of Black Diamond Council purchased the vacant buildings in 2011 with the intent of converting them into a girl-centered facility for members and a volunteer-enrichment center for program resources and training. The program for the facility includes administrative offices, community/meeting gathering spaces, as well as a small hotel (Urban Camp) for Girl Scouts visiting Charleston. The Girl Scouts undertook the effort to transform the facility, creating an architectural style that would appeal to girls and young women, while utilizing colors and materials that would not become dated.

The main building brings all of the operations of the Girl Scouts of Black Diamond Council together under one roof and on one level. This building includes a volunteer meeting room, employee office space, flexible conference spaces, and a retail shop. The Virginia Street façade of the existing facility was removed, and more contemporary elements are utilized to speak to each of the functions. The Girl Zone/Urban Camp reflects a more residential/outdoor tone with the use of a wood veneer, while the retail store has floor to ceiling storefront.



The storefront is etched with images of girl scouts and scouting slogans. The storefront is backlit in the evening, allowing the entire façade to reflect the function of the building. The entry is accentuated with a more vertical element and signage, giving hierarchy to the various elements, while the office areas are recessed from the corner with smaller openings, and a masonry veneer. Each zone has a unique identity.

The adjacent Girl Zone/Urban Camp conveys the feeling of a hotel or hostel and offers a place that Girl Scouts can stay during a visit to Charleston. While the main entry to the building faces Virginia Street, the entry for the Girl Scouts will be at the rear of the building. A small addition was developed to create a “check-in” area similar to a hotel. Adjacent to the “check-in” area is a great room where troops can gather to cook, congregate, and socialize. The “hotel rooms” utilize a dormitory arrangement, while the finishes and furnishings will be more like a youth hostel than a camp. The rear of the Girl’s Zone/Urban Camp will reflect a more traditional camp environment, and includes an outdoor dining area and a fire pit.

With the mixed-use functions of retail, office, and residential, this unique project will be a vibrant addition to the emergent West Side community. The modern aesthetic of the facility will appeal to Girl Scouts and reflect the one of the Girl Scout’s Journeys – “It’s Your World – Change It!”

Construction & Facilities Management Office

WVARNG



LOCATION:
Charleston, WV

SIZE:
19,935 SF

COST:
\$3.5M

COMPLETION:
2008

CONTACT:
MAJ Dan Clevenger
WVARNG
1707 Coonskin Drive
Charleston, WV 25311
304.561.6539

AWARD:
2009 AIA Merit Award,
West Virginia Chapter,
Achievement in Architecture



The Construction and Facilities Management Office (CFMO) Expansion project will bring all of the operations of the CFMO together under one roof. The branches that will occupy this facility include: Director of Engineering, Environmental, Planning and Programming, Facility Operations & Maintenance, Business Management, Resource Management, and Design and Construction. This new facility is located slightly to the front, and adjacent to the existing facility, lending prominence to the new construction, and providing a new aesthetic to the entire complex.



This transitional space was designed to connect the two structures, while maintaining a connection to the outside through use of natural light, direct visual connections to the exterior, large volumes, irregular geometries, and the use of natural materials.

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





West Virginia State Police *Information Services Center*

LOCATION:
So. Charleston, WV

SIZE:
14,000 SF Renovation
4,000 SF New Construction

CONTACT:
Captain M.G. Corsaro
Director of Executive Services
West Virginia State Police
725 Jefferson Road
So. Charleston, WV 25309
304.746.2115



The West Virginia State Police is currently renovating a structure that previously served as the State Medical Examiner's Office, and prior to that, an elementary school. The building is located adjacent to the State Police's main campus in South Charleston, WV. The building is currently undergoing extensive renovation, with the intent of transforming it into an Information Services Center. The divisions are currently housed in the main state police headquarters building.



The scope of the work includes a complete renovation to the 14,000 SF, two-story main building with a new 4,000 SF, one-story addition on the back. The old exterior masonry façade will be enveloped with a thin-brick veneer facing Jefferson Road and an exterior insulation and finish system in rear of the facility. New aluminum windows, high-performance glazing and new single-ply roof membrane complete the exterior. The interior will be converted into professional office space on both floors housing their Communications Division, Criminal Records Division and Traffic Records Division. The space was maximized by utilizing the wide corridors as office space, and creating new, appropriately scale corridors in a loop pattern through the existing classrooms



Adam R. Krason, AIA, LEED AP, ALEP



Role
Principal

Professional Registrations

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

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

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

Project Experience

Charleston Civic Center, Charleston, WV

Mr. Krason served as principal-in-charge of the expansion and renovation to the Charleston Civic Center. The \$75M, 283,000 SF design-build project is being completed as a collaboration

Education

Bachelor of Architecture, The Catholic University of America, 1998

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

Employment History

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

Civic Affiliations

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

with tvsdesign and BBL Carlton. Mr. Krason was responsible for the overall management of the design team, coordination with the client, and also has input critical project management decisions. The design commenced in the spring of 2015, and construction was complete in 2018.

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

Mr. Krason led an architectural and engineering team that completed a detailed assessment of State Office Buildings 5, 6, & 7. Once the assessment was complete, ZMM had the opportunity to implement the proposed improvements on the 10th Floor of State Office Building #5 for the Office of Technology. The renovations, aiming for LEED-CI Certification, re-oriented the layout by drawing all private offices into the building core, providing access to daylight and views for all employees. The design also utilized acoustical ceiling clouds and bulkheads to maximize the acoustical performance, while also increasing the volume of the space.

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

Morgantown Readiness Center (WVARNG), Morgantown, WV

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

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

Mr. Krason was responsible for the programming, architectural design, and project management of the office expansion. The project included the renovation and addition to an existing pre-engineered metal building. The design, which was honored with a 2009 AIA Merit Award, focused the client's resources on a new entry and corridor that separated the existing office space from the addition.

Bridgemont Community and Technical College - Davis Hall Renovation and Master Plan, Montgomery, WV

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

Edgewood Elementary School, Charleston, WV

Mr. Krason was the project manager on the new Kanawha County Elementary School on Charleston's West Side. The school is being designed as a 21st Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off of an open 'exploratorium' that is being designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school will also visibly integrate sustainable design principles to serve as a teaching tool for the students. Mr. Krason worked with students from Watts and Robbins Elementary Schools in Kanawha County, assisting them in an effort to actively participate in the design process

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

2017 WV AIA Merit Award Logan-Mingo Readiness Center, Holden, WV

2016 WV AIA Merit Award Christ Church United Methodist, Charleston, WV

2015 WV AIA Merit Award Edgewood Elementary School, Charleston, WV

2014 WV AIA Merit Award Girl Scouts of Black Diamond Council, Charleston, WV

2011 WV AIA Honor Award Joint Interagency Training and Education Center (JITEC), Kingwood, WV

2011 AIA Honor Award State Office Building #5, 10th Floor Renovation, Charleston, WV

2009 AIA Merit Award WVARNG Construction and Facilities Management Office, Charleston, WV

David E. Ferguson, AIA, REFP



Role
QA/QC

Professional Registrations

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

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

Mr. Ferguson began his career at ZMM in 1984 working on a variety of retail, educational and military projects throughout West Virginia, Pennsylvania, Ohio, Virginia, Maryland, New York, North Carolina, South Carolina, Florida, and Washington DC. In 1996 Mr. Ferguson expanded his expertise into the Healthcare and Industrial and Corporate Office facilities and since then has led the effort at ZMM in Educational Design. Mr. Ferguson is a Recognized Educational Facility Professional (REFP) and has been involved in planning, designing and the construction of over 200 educational facilities in West Virginia. As the architect for the first "green" school building in West Virginia Mr. Ferguson has been an advocate for sustainable design and was involved starting the first US Green Building Chapter in West Virginia.

Mr. Ferguson has also participated in developing West Virginia Department of Education's Policy 6200 *Handbook on Planning School Facilities* and the West Virginia School Building Authority's *Handbook of Quality and Performance Standards*. In addition to Mr. Ferguson's project management responsibilities, as a principal of the firm he has corporate administrative duties and serves on the Board of Directors.

Project Experience Highlights **Nicholas County Schools**

Mr. Ferguson is currently leading the recovery effort for the of \$160 million dollar school system. On June 23, 2016 a flood destroyed three schools. These facilities were left unsafe and un-inhabitable. ZMM has worked with the County Board of education, FEMA, and the State of WV to design and program

Education

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

Employment History

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

Civic Affiliations

- A4LE Southeast Region Board of Directors – WV State Governor
- West Virginia Chapter, American Institute of Architects, Past President
- West Virginia Chapter, American Institute of Architects, Board Director
- American Institute of Architects, Member
- Member, Association for Learning Environments(A4LE)
- Recognized Educational Facility Planner (REFP) by the A4LE
- Professional Member, US Green Building Council
- High School Mentoring/Job Shadowing Program for 6 County School Systems
- WV AIA IDP Program Mentor/Advisor

temporary schools and develop a long range plan to rebuild. ZMM is working on the programming and design for the two new facilities. A community school which will include spaces for the community to access, and a comprehensive High School/Middle School which will include a Career Technical Center. Mr. Ferguson has conducted community Meetings, established goals and priorities, created overall budgets and a project scope all stakeholders will support.

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

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

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

Southern West Virginia Community & Technical College, Williamson, WV Mr. Ferguson was the principal-in-charge for this new 22,000 SF Applied Technology Center. The building featured large, flexible teaching areas that can adapt as the curriculum changes for each program. The facility is the first step in the progression of a planned campus expansion that will ultimately include the adjacent Readiness Center. ZMM is also providing a new campus master plan, with a focus on creating green space and improving pedestrian and vehicular circulation. This project was designed to meet the USGBC LEED Silver standards.

Lincoln County High School, Hamlin, WV Mr. Ferguson was responsible for the programming and design effort for this one-of-a-kind facility. This 800 student, 217,000 SF school was a ground breaking facility for the county, West Virginia School Building Authority and the WV Department of Education. This facility was the first school in West Virginia to incorporate "green" design principals. The school was the first school east of the Mississippi River to encompass a fully comprehensive High School, Vocational School, Health Clinic (open 12 months a year), and Community College within one building. This facility is also the proud recipient of the 2007 WV AIA Honor Award.

Hacker Valley PK-8 School, Hacker Valley, WV Mr. Ferguson was responsible for the programming and design effort for this facility. This 65 student, 31,000 SF school was a ground breaking facility for the county, West Virginia School Building Authority and the WV Department of Education. The project didn't fit within any standard guidelines or protocol for a new school. Mr. Ferguson was instrumental in developing new guidelines for schools of this size and grade level configurations. The design of this facility is also the recipient of the 2010 WV AIA Honor Award.

Wood County Bond Program: Mr. Ferguson assisted Wood County in developing budgets, project scopes for a \$40 Million Dollar Bond Program. The bond created the New Williamstown Elementary School, Willamstown Middle School Addition and an addition to the Wood County Technical Center. The

Nathan Spencer, AIA



Role
Project Architect

Professional Registrations
Registered Architect (WV)

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

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

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

Project Experience

Charleston Civic Center, Charleston, WV

Mr. Spencer served as project architect on the expansion and renovation to the Charleston Civic Center. The \$75M, 283,000 SF design-build project is being completed as a collaboration with tvsdesign and BBL Carlton. The design commenced in the spring of 2015, and construction was completed in 2018.

Edgewood Elementary School, Charleston, WV Mr. Spencer participated on the design team that developed the new Kanawha County Elementary School on Charleston's West Side. The school was designed as a 21st Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off of an open 'exploratorium' that is being designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school integrates sustainable design principles to serve as a teaching tool for the students. A dental and health clinic is also on site for all enrolled students in the Kanawha County School District.

Logan-Mingo Readiness Center, Holden, WV

Mr. Spencer was the architect on the new Logan-Mingo Readiness Center. The exterior aesthetic of the facility was

Education

Bachelor of Architecture, University of Tennessee, 2007

Employment History

2009 - Present, Architect, ZMM
2007 - 2009, Intern Architect, ZMM
2003 - 2007, Summer Intern, ZMM

Civic Affiliations

- American Institute of Architects, Member

driven by the location within an industrial park on a reclaimed surface mined site. The building layout was developed by working closely with the end-users to determine the appropriate configuration of building spaces to maximize the efficiency of the operations, and to respond to the unique missions of the 150th Armored Reconnaissance Squadron and the 156th Military Police (LNO) Detachment. Clear separation of "public" and "private" areas within the facility, unique office configurations related to training requirements, and the addition of State Funded additional spaces.

Cabell County Bus Transportation Complex, Huntington, WV Mr. Spencer was the project Architect on the Cabell County Transportation Complex is located on the site of the old Cox Landing Junior High School. Challenges on the project involved retrofitting the old school and site to accommodate the new use. The rear portion of the school was demolished to make room for the new maintenance portion of the building. The remaining front section of the school was renovated to include office space, storage areas, and a new staff development room. The new maintenance area includes a high-bay metal building with 14 back to back workbays, three of which have hydraulic bus lifts. A hand wash bay and a state of the art automatic wash bay were also included in the project. Extensive sitework was also involved in the retrofit project including a fueling station, bus parking, a sediment pond, and an extensive rework of the existing site utilities.

Highland Hospital, Charleston, WV

Mr. Spencer was the project architect on Highland Psychiatric Hospital. Mr. Spencer was responsible for coordinating the production effort for the 60,000+ SF mental health facility. Mr. Spencer also produced several 3-D models throughout the design process. This project consisted of 87,300 SF, \$26M addition to Highland Hospital in Charleston. The addition will include: administrative offices, training spaces, 165 patient beds, nurses stations, an out-patient treatment department, pharmacy, laundry, and building service spaces. A pedestrian bridge will connect the new facility to the existing hospital.

Jackson County AFRC, Millwood, WV

Mr. Spencer participated in the schematic design of the 76,000 SF Reserve Center in Jackson County, West Virginia. Mr. Spencer was also responsible for coordinating the production effort for the project. Mr. Spencer also produced several 3D models throughout the design process. The project is aiming for LEED Silver Certification.

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

Morgantown Readiness Center, Morgantown, WV

Mr. Spencer was a member of the production team for the 58,000 SF project, which housed the Army Band and associated performance spaces. Mr. Spencer also produced several 3d models throughout the design process. He also participated on all production work through all phases. The project is aiming for LEED Silver Certification.

Tucker County Courthouse Annex, Parsons, WV

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

Judge Black Courthouse Annex, Parkersburg, WV

Mr. Spencer assisted with the design and programming of the adaptive reuse of a former commercial space and movie theaters into a modern courthouse annex. The Judge Black Annex included two independent circulation paths – a secure entry and lobby for access to the Family Court and Prosecuting Attorney, and public access to the Assessor and Sheriff's Tax Department. The facility also houses several large public meeting rooms.

Education

M.S.E. Engineering Management, Marshall University, 2016

B.S. Civil Engineering, West Virginia Institute of Technology, 2009

Registrations

Registered Professional Engineer in West Virginia, Kentucky and Ohio



Professional Experience

Mr. Conley has more than 8 years of experience in project conception, planning, design, computer modeling, preparation of plans and specifications, permitting, coordinating with other utilities, land acquisition, easements, bidding, preparing invoices, construction management, site inspections and updating client's board members for a variety of projects ranging from small extensions to complete system upgrades. Training includes preliminary engineering reports, line layout, hydraulic design, lift and booster station design, water storage tank design, preparation of construction documents and specifications, preparation of permit applications and coordination with regulatory and funding agencies.

Representative Projects

Eastern Wyoming PSD Barkers Ridge/Basin Phase I & II Waterline Extension Project: Construction and design with a \$10,644,000 cost.

Eastern Wyoming PSD Beartown-Herndon Heights AML Waterline Extension Project: Construction with a \$9,388,000 cost.

Eastern Wyoming PSD Bud/Alpoca Water System Upgrade Project: Construction with a \$2,270,000 cost.

Eastern Wyoming PSD Covel Waterline Extension Project: Construction with a \$5,860,000 cost.

Eastern Wyoming PSD Otsego Waterline Extension Project: Construction with a \$9,828,000 cost.

Lincoln PSD Lower Mud River Waterline Extension Project: Construction with a \$6,452,000 cost.

Logan County PSD Big Harts Phase I through IV Waterline Extension Project: Planning, design and construction with a \$22,810,000 cost.

Logan County PSD Big Ugly Creek Road Phase I through III Waterline Extension Project: Planning with a \$10,035,000 cost.

Logan County PSD Frances Creek Waterline Extension Project: Construction with a \$2,830,000 cost.

Logan County PSD Hidden Valley/Airport Road Water System Upgrade Project: Construction with a \$1,307,000 cost.



BRANDON CONLEY, P.E.
(CONTINUED)



Mingo County Redevelopment Authority Mingo County Air Transportation Park Water and Sewer Extension Project: Design with a \$7,000,000 cost.

Town of Chapmanville Water System Upgrade Project Phase I & II: Construction and design with a \$5,050,000 cost.

Town of Williamson Water System Upgrade Project: Design with a \$11,764,000 cost.

West Virginia Division of Natural Resources Claudia L. Workman Wildlife Education Center Phase I: Construction with a \$2,110,000 cost.

Town of Pax Willis Branch Sewer Extension Project: Planning and Design with a \$2,300,000 cost.

Town of Gilbert River Bend Road Waterline Extension Project: Planning and Design with a \$2,229,000 cost.



Carly Chapman



Role
Interior Designer

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

Project Experience

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.

Bluefield Primary School, Bluefield, WV

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

Ravenswood Middle School, Ravenswood, WV

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

Williamstown Elementary School, Williamstown, WV

When designing a new school built on tradition, the initial thought of school colors and clean lines comes to mind. This was not the case with the new Williamstown Elementary School. Using the school colors as our basis of design, the county was open to adding complimentary colors to entice the

Education

Bachelor of Interior Design, University of Charleston, 2012

Employment History

2016 - Present, Interior Designer, ZMM

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

2003 - Present, Architect, Project Manager, ZMM

2010 - 2012, Interior Design Intern, ZMM

students for a bright and exciting learning environment. Colorful floor pattern adorns the corridors, using the tile for wayfinding and structure for students. In the media center you will find a custom designed tree, dripping in lights mimicking fireflies and a perfect campfire setting for storytelling. The tradition is kept alive with the pops of Maroon and Gold throughout the cafeteria and gym.

Mountain Valley Elementary School, Green Valley, WV

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

PK-2 & New Collins Middle, Oak Hill, WV

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

Charleston Civic Center, Charleston, WV

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

ARH Chemotherapy, Beckley, WV

This project was a renovation of a hospital wing to be redesigned for optimal health and wellness for patients undergoing chemotherapy treatment. Both aesthetics and general sanitary design requirements were crucial to making this project successful.

Valley Park Community Center, Hurricane, WV

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

Charleston EDGE, Charleston, WV

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

CAMC Post Op, Teays Valley, WV

This project was a renovation of a hospital wing to be redesigned for recovery of Post Operation patients. This project included patient rooms, nurse’s stations, and designing the space for optimal health and wellbeing.

Clarksburg, Richmond, Huntington, Salem VA Hospitals

During previous employment, Mrs. Chapman was heavily involved with renovations to various VA hospitals. Renovations included redesign implementing DIRTT wall systems, renovations to nurse, admirative and patient areas, as well as common’s areas.

Todd Schoolcraft, PLA
Landscape Architect



Education

B.S. Landscape Architecture, West Virginia University, 1991
Safe Spaces: ASLA Security Design Symposium, Chicago, IL, 2004
AQUA Conference Educational Sessions, Las Vegas, NV, 2005
CERFP Team Training, WV Army National Guard, 2006



Registrations

PLA, West Virginia, 1995
RLA, North Carolina, 2005
RLA, Ohio, 2002
CLARB Certified, 2001
LEED® Green Associate, 2012

Professional Experience

Mr. Schoolcraft has over 25 years of experience in the fields of landscape architecture and land planning, with over 33 years of experience in the building and construction industry. Mr. Schoolcraft has extensive experience managing complex projects and leading multi-disciplined teams of professionals resulting in the successful delivery of numerous quality projects on-time and on-budget. Major areas of specialty include commercial development, military installation design, land planning, public development, site planning and design, park and recreation design, trails and greenways, streetscape design and urban planning, and residential subdivision layout. Mr. Schoolcraft is a retired U.S. Army Officer, holding the rank of Major, with over 23 years of time in service in the U.S. armed forces. In the last years of service, he held the position of Operations Officer with the newly formed Chemical, Biological, Radiological, Nuclear or High Yield Explosive Enhanced Response Force Package Team (CERFP Team) with the West Virginia Army National Guard. Prior to this, he was a combat engineer with the Design Section of the 111th Engineer Group, West Virginia Army National Guard. The 111th Engineer Group served in the Middle East in support of Operation Iraqi Freedom and Operation Enduring Freedom. During that time, Mr. Schoolcraft was awarded the Bronze Star Medal for meritorious service associated with a multitude of engineering and architectural projects in Kuwait and Iraq. Mr. Schoolcraft was appointed by the governor to the West Virginia State Board of Landscape Architects and served over 9 years as Secretary and Treasurer.

Representative Projects

Lost Creek Train Depot Rehabilitation for the Town of Lost Creek in Lost Creek, West Virginia. Landscape Architect. Responsible for concept planning design and document quality oversight. The Town of Lost Creek solicited services for the planning and design of the rehabilitation of a historic train depot adjacent to the Harrison County Rail Trail. Prepared a plan to raise the structure, make repairs to the deteriorated timber substructure, excavate and place the concrete foundation system, then lower the structure to rest on the new foundation. Also provided construction administration and inspection services as well as periodic site review during construction.



Greenbrier River Rail-Trail Improvements for the West Virginia Department of Natural Resources, Parks and Recreation Division in Greenbrier County, West Virginia.

Project Landscape Architect. Responsible for field inventory and analysis, base map preparation, concept development, detailed design, and construction documents preparation. The banks of the Greenbrier River were literally washed away twice during severe flooding in 1996. Also washed away were parts of the Greenbrier River Trail, the 88-mile former railroad line from Cass to Caldwell, which is maintained by the West Virginia Division of Natural Resources. Our charge was to assess the damage on a 24-mile section of trail from Cass to Marlinton, which ranged from simple debris removal to replacement of the entire trail cross section and sub-base material. This inventory of damage was graphically represented utilizing digital scans of the original 1916 Chesapeake and Ohio Railway Co. Valuation Maps, indicating exact locations, the extent of damage, and treatment required.

Brooke-Hancock County Veterans Memorial Park for the Brooke County Commission and Brooke-Hancock County Veterans Memorial, Inc. in Weirton, West Virginia.

Project Manager. Responsible for conceptual design, detailed design, construction documents, bidding, and construction administration. Developed a concept plan for the expansion of the Veterans Memorial Park in Weirton. Improvements to the Park included brick sidewalks, parking, lawn area, Vietnam-era fighter jet display, WWII naval anchor, and a 911 Twin Towers display. The 911 Monument consisted of a contemplation garden with a bench and sculpture constructed from steel salvaged from the aftermath of the Twin Towers site in New York City. Landscaping, lighting, and grading improvements were also included in the final design.

Virginia's Chapel Interpretive Roadside Park, Midland Trail Scenic Highway for the Town of Cedar Grove in Cedar Grove, West Virginia.

Project Manager. Responsible for conceptual design, detailed design and construction document quality oversight. Performed field inventory and analysis functions for the final design, as well as periodic inspection services. Provided landscape architecture services for the construction of a roadside park interpretive center with pervious concrete sidewalks, porous asphalt parking, rain garden and other landscaping, benches, trash receptacles, accessible picnic tables, gazebo and interpretive signage for the historic Virginia's Chapel Roadside Interpretive Center along the beautiful Midland Trail Scenic Byway. Services include base mapping, background data collection, concept and final design, bidding, construction management, and construction inspection.

Pennsboro Trailhead, Old Stone House/Boarding House, and Historic B&O Train Depot Improvements for the City of Pennsboro and the Ritchie County Historical Society in Pennsboro, West Virginia.

Project Landscape Architect. Responsible for concept planning, detailed design, construction documents, bidding, construction administration and construction inspection. The Ritchie County Historical Society, in conjunction with the City of Pennsboro, solicited services for the planning and detailed design of a new trailhead along the North Bend State Park Rail Trail. Site improvements include the first known use of pervious or porous asphalt in West Virginia as the pavement surface for the parking area. A rain garden/bio-retention swale was also included as some of the green, sustainable design solutions proposed. Construction administration and inspection services were provided for the trailhead work, plus restoration of the Old Stone House and Boarding House, built in 1810. Now a museum, the Old Stone House/Boarding House once served as an inn for Americans heading for the frontier to rest their weary bones before continuing westward. Construction services also included the continued restoration of the historic B&O Railroad Depot in Pennsboro, also currently serving as a museum. This project was awarded an ASLA Merit Award.



Robert Doeffinger, PE



Role
Engineering Principal

Professional Registrations

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

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

After graduate school in Architectural Engineering, Mr. Doeffinger joined ZMM. He has over 35 years design experience in mechanical and electrical systems for buildings. He has a broad range of engineering experience in education, industrial and manufacturing facilities, large retail, correctional and jails, office buildings, and military facilities.

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

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

Project Experience

Charleston Civic Center, Charleston, WV

Mr. Doeffinger was the mechanical project engineer on the expansion and renovation to the Charleston Civic Center project. The \$75M, 283,000 SF design-build project was a collaboration with tvsdesign and BBL Carlton. The design commenced in the spring of 2015, and construction was completed in October 2018. The mechanical design is expected to reduce the energy requirements defined by ASHRAE 90.1-2013 by an estimated 25% and extensive water savings will be shown. The project includes a new chilled and hot water central plant with extensive replacement and upgrades to the facilities existing mechanical systems. Multiple phases of construction will allow the Civic Center to remain operational throughout the construction progress.

Education

Master of Science Architectural Engineering, Pennsylvania State University, 1976

Bachelor of Science Mechanical Engineering, West Virginia University, 1973

Employment History

2005 - Present, President, ZMM
1976 - 2005, Vice President and Engineering Principal, ZMM

Civic Affiliations

- ASHRAE – Member of the Technical Committee Load Calculations Data and Procedures for 15 years, serving as chairman. Presently Chairman of the Research Subcommittee
- Advisory Board for the Department of Electrical Engineering Technology, Bridgmont Community and Technical College
- City of Pt. Pleasant, WV – 2nd Ward Councilman for 20 years

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

West Virginia Capitol Complex - Buildings #5, 6, & 7, Charleston, WV Mr. Doeffinger was the Project Engineer for the in-depth analysis of Buildings #5, 6, & 7 at the State Capitol Campus. The study included the preparation of as-built plans, as well as an analysis of all building systems, including: Life Safety; Vertical Transportation; Mechanical; Electrical; Data; Façade; Structure; and Roofing. The analysis also included a study related to potential hazardous materials in the facility.

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

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

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

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

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

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

The Plaza at King of Prussia, Pittsburgh, PA One of the largest retail centers in the east. Mr. Doeffinger has performed engineering services for the past 20 years. The project consists of a 5,000 -ton chilled water plant and 1,500,000 cfm variable volume system for tenants and constant volume air system for common areas and an engineered smoke control system. The most recent project is a 2011, 100,000 square foot expansion of tenant spaces, a renovation of the food court, and a 1,250-ton chiller addition to the central chilled water plant.

Tim Cart, P.E.
SITE CIVIL ENGINEER



Education

B.S. Civil Engineering, West Virginia University, 1981, Magna Cum Laude

Registrations

Registered Professional Engineer West Virginia (1986)

Registered Professional Surveyor in West Virginia (1995)

Professional Memberships

American Society of Civil Engineers (ASCE)

Professional Experience

Mr. Cart has over 35 years of experience in providing consulting engineering services. Clients served have included Industrial, Public and Private Institutions and State and Federal Agencies. He has served as Project Engineer on numerous geotechnical investigations over the years. These projects have included highways, bridges, industrial sites, buildings and various developments.

Mr. Cart has been the lead engineer for the design of structures including garage maintenance facilities, 911 centers, student resident housing additions, building renovations including additions of elevations and stairways. The projects vary in complexity to single story slab on grade structures to multi-story 911 centers.

Additionally, Mr. Cart has also provided clients with evaluation of existing structures to determine the modifications required for proposed changes in the structural loading. He has worked with architects and the fire marshall's office to provide structures designed to the latest code requirements.

Representative Projects

Mr. Cart has served as senior project engineer for numerous structural projects including the following:

- Buckwheat Express Bus Garage- Kingwood, WV
- Mason County 911 Center and Garage- Point Pleasant, WV
- Putnam County 911 Center and Maintenance Garage- Winfield, WV
- Mingo County 911 Center- Williamson, WV
- Wetzel County 911 Center- New Martinsville, WV
- CAMC General Student Resident Housing- Charleston, WV
- State Credit Union Building Addition- Charleston, WV



Tim Cart, P.E.
(continued)



- Chief Logan Recreational Center- Logan, WV
- Aldersgate United Methodist church Gym and Fellowship Building- Sissionville, WV
- Lincoln County Courthouse File Room Modifications- Hamlin, WV
- Logan County Commission Building Elevator and Stairway Project- Logan, WV
- Logan County Courthouse Annex, Elevator and Stairway Project- Logan, WV
- Logan Welcome Center- Logan, WV
- Historic Coal House Restoration- Williamson, WV
- Flatwoods Canoe Rune PSD Maintenance & Treatment Building- Sutton, WV
- Putnam County Pre-Sed Basin and Building- Teays Valley, WV
- Delbarton Sewage Treatment Plant & Facility Buildings- Delbarton, WV
- Putnam County PSD Maintenance Garage- Teays Valley, WV





Role

Mechanical Project Engineer

Professional Registrations

Professional Engineer (WV, WI, IL)

LEED Accredited Professional

Mr. Butzer is a registered Professional Engineer with design experience in HVAC, Piping (Mechanical, Industrial, Laboratory, Medical Gas), Fire Protection and Plumbing systems. He has been responsible for an extensive range of projects that include Hospitals, Civic Complexes, Laboratories, Medical and Dental Office Buildings, Retail, Military Installations, Churches, Restaurants, K-12 Schools, Higher Education Facilities, Pharmaceutical Manufacturing, Natatoriums and Historical Renovations.

Mr. Butzer began his career in engineering with a mechanical contractor located in Wisconsin. His collective engineering experience includes projects that were design-build, design-assist and plan & spec. His background in engineering and 3D BIM design and coordination has provided him with extensive experience in the "real world" of HVAC and piping constructability. That experience has forged him into a leader at the integration of all construction disciplines into a multitude of building types and space constraints.

Mr. Butzer's dedication to the community and his civic affiliations demonstrates a strong connection to the engineering principles of energy efficiency, sustainability, occupant comfort and health.

Project Experience

Charleston Civic Center, Charleston, WV

Mr. Butzer was the Mechanical Project Engineer on the expansion and renovation to the Charleston Civic Center project. The \$75M, 283,000 SF design-build project was completed as a collaboration with tvsdesign and BBL Carlton. The design commenced in the spring of 2015, and construction is complete in October 2018. The mechanical design is expected to reduce the energy requirements defined by ASHRAE 90.1-2013 by an estimated 25% and extensive water savings will be shown. The project included a new chilled and hot water central plant with extensive replacement and upgrades to the facilities existing mechanical systems. Multiple phases of construction allowed the Civic Center to remain operational throughout the construction progress.

Education

Bachelor of Science, Mechanical Engineering, University of Wisconsin at Madison, 2007

Associate of Science, Madison Area Technical College, Madison, WI, 2004

Employment History

2018 - Present, Board of Directors, ZMM

2013 - Present, Project Engineer, ZMM

2007 - 2013, Mechanical Engineer, WI

2005 - 2007, Mechanical Engineer

Intern, UW-Madison FP&M

Civic Affiliations

- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), President of West Virginia State Chapter
- United States Green Building Council (USGBC), Board Member of West Virginia State Chapter
- Marshall University Engineering Advisory Board Member
- Kanawha City Community Association Board Member

Harrisville Elementary School, Harrisville, WV

Mr. Butzer was responsible for designing the HVAC systems for the renovation and additions to the elementary school. Initial design development consisted of variable refrigerant flow (VRF) systems coupled with dedicated outdoor air (DOAS) systems for the Classrooms and Administration areas. Roof mounted air conditioning and exhaust equipment were provided for the new Cafeteria, Kitchen and existing Gymnasium. Budget and space constraints forced the design to evolve into individual, self-contained, interior air handling units for each Classroom. The units were able to meet ASHRAE 62.1 requirements for ventilation, the Acoustical Society of America's (ASA) requirement for sound, and every other standard such as individual classroom temperature and dehumidification control as set forth by the School Building Authority (SBA).

Appalachian Regional Hospital, Beckley, WV

Mr. Butzer is the Mechanical Project Engineer currently working with the hospital on multiple renovations. The ICU and OR departments will undergo Mechanical and Architectural upgrades in a multiphase project while the hospital remains operational. The existing kitchen will receive a new make-up air unit, and fan coil units to improve pressure and air balance relationships within the hospital. A dedicated HVAC unit was provided for the endoscopy suite to improve thermal comfort and provide code-required ventilation, air-changes and humidity.

Glenwood Elementary School, Princeton, WV

Mr. Butzer was the Mechanical Project Engineer for this successful project that came in under budget, on-time and with zero change orders. The first phase was duct cleaning and sealing that improved indoor air quality and reduced system demand by 8 tons. The second phase was the HVAC improvements which replaced all existing constant volume, single compressor, multizone, air handling units (AHUs) with new variable speed, multi-compressor AHUs. VAV terminal units were installed to create separate zones for each classroom. A new building automation system was provided for system controls and to incorporate the facility into the existing county-wide controls network. All electric heating was abandoned to maximize use of the hot water heating system. Mechanical upgrades saved the school an estimated 18.5% in the electric usage and provided them with over \$13,000 in rebates from the electric utility.

Nicholas County Courthouse, Summersville, WV

The Nicholas County Courthouse is a Historic building constructed in 1898 with an addition executed by the Works Progress Administration in 1940. The courthouse was added to the U.S. National Register of Historic Places in 1991. Mr. Butzer led a project team responsible for upgrading an existing 2-pipe fan coil system into a 4-pipe system to provide simultaneous heating and cooling and meet the climate and comfort needs of specific occupants. A new 4-pipe system, variable speed pumps and 3-way valves were provided in the basement to achieve integration of the new system into the existing. Construction had to be phased to allow installation of the new heating loop while the existing system remained in cooling operation; the new cooling loop would be installed once the building switched over to the new heating loop. Welding and soldering were not allowed so materials such as PEX, pressure-seal copper and mechanical joint steel piping were specified. A new Building Automation System with most of the communication occurring wirelessly was chosen to minimize disturbances to the historical architecture of the building.

Gestamp West Virginia, South Charleston, WV

Mr. Butzer led a design team that was tasked to provide a mechanical system to separate out, or divert hydraulic fluid collected along with chilled water released from immense, automobile component stamping machines. The design included an aboveground oil-water separator, density meters, 3-way valves, storage tanks and a controls system to monitor fluid flow and guarantee separation or storage of non-compliant sanitary discharges.

J.D. Kinder, P.E.
Geotechnical Engineer



Education

B.S. Civil Engineering, West Virginia Institute of Technology, 2008

Registrations

Registered Professional Engineer West Virginia

Professional Experience



Mr. Kinder has over 8 years of experience in many areas of civil engineering including roadway design projects, site development projects, geotechnical investigations, natural gas projects and retain structure design. Additionally, Mr. Kinder has experience in performing slope stability analysis for various roadway fills and bridges.

Prior to joining E.L. Robinson Engineering, Mr. Kinder gained experience in the manufacturing industry supervising various products. His duties included QA/QC testing, product development, estimating, on site installation assistance, inventory, production scheduling, oversight and site layout and design for more than 140 retaining wall projects throughout West Virginia, Ohio and Kentucky.

Representative Projects

Mr. Kinder has served as a project engineer for numerous structural projects including the following:

WVDOT Landslide Repairs- Lincoln County (20 sites)

WVDOT Landslide Repairs- Logan County (6 sites)

WVDOT Landslide Repairs- Mingo County (8 sites)

WVDOT WV 4 Clendenin Slip and Slide Repair (11 sites)

WVDOT Corridor H Kerens to U.S. 219 Connector (Geotechnical) - Randolph & Tucker Counties

WVDOT Laurel Creek Girder Bridge (Geotechnical) - Mingo County, WV

WVDOT Arnettsville Arch Bridge (Geotechnical) - Monongalia County, WV

FEMA - Town of Logan - Storm Damage Investigation

Crestwood Pipeline Projects- Doddridge County, WV

City of Williamson Water Treatment Plant Inlet Modification

Tracy Vickers Community Complex

West Edge Warehouse - Huntington, WV



John Pruett, PE, LEED AP



Role
Mechanical Engineer

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

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

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

Project Experience

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

Tucker County Courthouse Annex, Parsons, WV

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

Education

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

Employment History

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

Civic Affiliations

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

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

Edgewood Elementary School, Charleston, WV Mr. Pruett was the mechanical engineer on the new Kanawha County Elementary School on Charleston's West Side and responsible for the HVAC systems design. The school is being designed as a 21st Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off of an open 'exploratorium' that is being designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school will also visibly integrate sustainable design principles to serve as a teaching tool for the students.

Additional Education Experience

Explorer Academy
John Adam Middle School
Salt Rock Elementary School

Project Experience with other firms

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

Michael J. White, PE



Role
Structural Engineer

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

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

Project Experience
WVDNR Forks of Coal
Milton PK School
Midland Trail High School
Valley Park Community Center
Marshall County Readiness Center

Other Jobs from Past Employers:
Monongalia County Justice Center - Morgantown, WV
Lewis Co. Judicial Annex - Weston, WV
Charleston Correctional Work Release Center - Charleston, WV
Stevens Correctional Facility - Welch, WV
Marsh Fork Elementary School - Naoma, WV
WVANG Camp Dawson, Multi-Purpose Building - Kingwood, WV
BridgeValley Advanced Technology Center - South Charleston, WV
New River Community and Technical College Headquarters Building - Beaver, WV
Lewisburg Elementary School - Lewisburg, WV
Rainelle Elementary School - Rainelle, WV
Boone County Honors Academy Addition - Madison, WV
WVU Parkersburg Center for Early Learning - Parkersburg, WV
WVU Parkersburg Applied Technologies Center - Parkersburg, WV

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

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

Mark T. Epling, AIA, LEED AP, NCARB



Role

Specifications Writer

Professional Registrations

Registered Architect (WV, OH,)

LEED Accredited Professional

NCARB Certification

Construction Documents Technologist (CDT)

Mr. Epling is responsible for the creation and coordination of Project Manuals including specifications for all ZMM projects. The coordination duties include the incorporation of specifications from several design disciplines including structural, plumbing, HVAC, and electrical specifications.

Mr. Epling's duties also include determining the type and number of bid packages and resulting construction contracts for a particular project, and following through with the incorporation of the appropriate contract forms and contract conditions into the Project Manuals.

Mr. Epling began his career as a licensed Architect in October 1982 and has acquired experience in all aspects of the architectural practice working on a variety of building types including single-family homes, medical clinics, industrial facilities, theatre restoration, commercial-retail buildings, and college dormitory and elementary school remodeling.

Mr. Epling began working at ZMM in February 1998 and has worked in preparation and coordination of working drawings, construction contract administration, and beginning in June of 2006, took on the role of specifications writer and has remained in that capacity.

Project Experience

Mr. Epling's recent project experience includes the preparation of Project Manuals for the following ZMM projects:

Charleston Civic Center - Expansion and Renovation
WV State Capitol Roof Replacement
WV State Office Building #5, 6, & 7
WV Housing Development Fund
CFMO Expansion
Houston Company Store
Erma Byrd Center
Joint Interagency Training & Educational Center (JITEC)
Huntington East Middle School
WV Army National Guard - Glen Jean AFRC

Education

Bachelor of Architecture,
Virginia Polytechnic Institute and State
University, 1977

Employment History

1998 - Present, Project Architect &
Specifications Writer, ZMM

1997 - 1998, Project Architect, OH Firm

1982 - 1997, Architect, Self Employed,
Located in OH

1978 -1982, Intern Architect, OH Firm

Civic Affiliations

- American Institute of Architects,
Member
- West Virginia Symphony Chorus,
Member

WV Army National Guard - Jackson County AFRC
WV Army National Guard - Morgantown Readiness Center
WV Army National Guard - Logan-Mingo Readiness Center
WV Army National Guard - Marshall Readiness Center
Wood County Justice Center
Tucker County Courthouse Annex
Southern WV Community & Technical College
Bridgemont Community & Technical College
Milton Middle School
Barboursville Middle School
Kenna Elementary School
Craigsville Elementary School
Southside Elementary/Huntington Middle School
laeger - Big Creek High School
Lincoln County High School
St. Albans High School
Bradshaw Elementary School
Edgewood Elementary School
Hacker Valley Pre K-8 School
Beech Fork State Park Lodge
CAMC Teays Valley
Highland Hospital

Scot Casdorff, PE



Role

Electrical Engineer

Professional Registrations

Professional Engineer (WV)

Mr. Casdorff serves as an Electrical Engineer with ZMM providing electrical design services for a vast number of projects consisting of commercial, educational, correctional, institutional, and military facilities.

Mr. Casdorff is responsible for many facets of the project pertaining to electrical design such as interior and exterior lighting, power distribution, data system design, security, fire alarm, low voltage control systems, equipment specifications and performs electrical assessments during construction prior to the project's substantial completion date. Mr. Casdorff has participated on several LEED registered projects using energy conserving methods and utilizing lighting control systems and other means to meet or exceed ASHRAE 90.1, LEED, and energy code requirements.

Project Experience

Charleston Civic Center, Charleston, WV

Mr. Casdorff was the electrical engineer on the expansion and renovation to the Charleston Civic Center project. The \$75M, 283,000 SF design-build project is being completed as a collaboration with tvsdesign and BBL Carlton. The design commenced in the spring of 2015, and construction was complete in October 2018.

Joint Interagency Education and Training Center

(WVARNG), Kingwood, WV Mr. Casdorff was responsible for the electrical design of the 180,000 SF 3-story billeting/hotel expansion for the Army National Guard campus style facility for training and operational mission support. The expansion more than triples the facility size and increases the total capacity from 189 guest rooms to 600 guest rooms and suites. This project reached LEED Gold Certification.

Jackson County Armed Forces Reserve Center,

(WVARNG), Millwood, WV Mr. Casdorff was responsible for the electrical design of the 76,000 SF single story military reserve center which serves both the West Virginia Army National Guard and the United States Army Reserves (USAR) units. The multi-use facility provides educational spaces for classrooms, distance learning, physical training and a weapons

Education

Bachelor of Science, West Virginia
Institute of Technology, 1995

Employment History

2000 - Present, Electrical Engineer, ZMM
1995 - 2000 Electrical Controls Systems
Manager, WV Engineering Firm

simulation center. The project is targeted for LEED Silver Certification.

Glen Jean Armed Forces Reserve Center, (WVARNG), Glen Jean, WV Mr. Casdorff was responsible for the electrical design of the 102,000 SF military training facility which houses the Armed Forces Reserve Center (AFRC), Military Entrance Processing Station (MEPS), and an Organizational Maintenance Shop (OMS). The AFRC contains the administrative and training space for the 77th Brigade Troop Command, the 1863rd Transportation Company, and the 150th Armored Regiment Company. The MEPS houses their administrative, medical, headquarters, testing and storage functions at the facility. A comprehensive 8,500 SF OMS vehicle maintenance shop provides space for six large service workbays for maintaining the military fleet.

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

Gauley River Elementary School, Craigs ville, WV

Mr. Casdorff was responsible for the electrical design of the new elementary school. The project is consolidating Beaver Elementary School and Craigs ville Elementary School into a new 375-student school. The school houses 3 Pre-Kindergartens, 3 Kindergartens, 2 first grade, 12 1st-5th grade classrooms, activity room, cafeteria, kitchen, media center, and administration spaces.

Lincoln County High School, Hamlin, WV Mr. Casdorff was responsible for the electrical power distribution throughout the 216,000 SF facility containing high school classes, vocational education, technical community college classes and a community health clinic. The project was a 2007 AIA Honor Award Winner.

Milton Middle School, Milton, WV Mr. Casdorff was responsible for the electrical design of the new 96,000 SF facility housing 700 middle school students grades 6 through 8.

Fort Gay PK-8 School, Fort Gay, WV

Mr. Casdorff was the electrical engineer and was responsible for the electrical power distribution and design. The New Fort Gay PK-8 School replaces the existing facility that has been in disrepair and lacking the spaces and technology delivery system required for 21st century learning skills. The total enrollment for the school is 603 Students. The new grade configuration separates the Elementary students from the Middle School students, but still allows use of the common spaces within the building. They share the Dining Room, Gymnasium, Media Center and a Stage.

Southern WV Community & Technical College, Williamson WV Mr. Casdorff was responsible for the electrical power and lighting distribution design of this 22,000 SF higher education facility. This project is being designed to meet the USGBC LEED Silver.

West Virginia Research, Education, and Technology – Building 704, South Charleston, WV

Mr. Casdorff is the electrical engineer for building 704 and responsible for electrical power and lighting distribution. Building 704 had previously been utilized as a campus maintenance facility by Union Carbide and DOW Chemical. Bridgemont began utilizing the facilities for instruction in the Spring of 2011.

West Virginia Housing Development Fund Office, Charleston, WV Mr. Casdorff was responsible for the electrical design of the 37,000 SF office building which provides natural daylighting into its interior spaces coupled with an automatic dimming system and motorized shade controls. This 2-story administrative facility houses approximately 95 to 100 employees with a flexible open office floor plan utilizing modular under-floor wiring to accommodate any future modifications of the workspace with minimal disruption to the employees. The project is targeted for LEED Silver Certification.

FaLena Perry, CDT



Role

Construction Administrator

Professional Registrations

EIT

Mrs. Perry describes her role with ZMM as Construction Administrator as an exciting and invigorating opportunity with new experiences every day. From varying jobsite conditions to the differing professionals she encounters on a daily basis, Mrs. Perry approaches construction administration with a fresh set of eyes and desire to help provide the best outcomes possible for each project.

Mrs. Perry has nearly six years experience working as a Structural Engineer with two of those being a Project Manager. Structural engineering experience includes projects ranging from everything including \$135M university buildings down to residential homes and even historic restoration projects. Project variety includes Educational (K-12 and university), Commercial, Military, Office, Justice (Courthouses, Justice Centers, Police Department and Correctional), Multi-Use Residential, Civic (WWTP), Healthcare (Health Departments), Fitness (Gyms), Religious, Historic Restoration and an Arena. These projects are spread over Kentucky, West Virginia and Ohio.

Project Experience

Valley Park Community Center, Hurricane, WV

Mrs. Perry served as Construction Administrator on the new Community Center building and renovation at Valley Park. The \$15M construction project included a new community building, ball fields and a playground. Mrs. Perry was responsible for the administrative duties, performing on-site observations and tracking construction progress. Mrs. Perry collaborated with the client, design team and contractors to confirm that project guidelines are satisfactorily met. The facility reached completion in May 2018.

Ravenswood Middle School, Ravenswood, WV

Mrs. Perry is serving as Construction Administrator of the high school addition that will house the two-story Ravenswood Middle School making this the 20th facility in WV that will combine both high school and middle school students. This project is limited with available space as it is to fit into the existing high school footprint.

Midland Trail High School, Fayetteville, WV Mrs. Perry is serving as Construction Administrator of the six room high school addition that will include a STEM lab as well as other

Education

Bachelor of Science, Civil Engineering,
University of Kentucky, 2003

Masters of Science, Civil Engineering,
University of Kentucky, 2005

Employment History

2017 - Present, Construction
Administrator, ZMM

2009 - 2010, Design Engineer, Moment
Engineers, Charleston, WV

2004 - 2008, Engineer, Project Manager,
BFMJ Inc., Lexington, KY

2003 - 2004, Graduate Assistant,
University of Kentucky College of
Engineering

Civic Affiliations

- Project Coordinator, Forrest Burdette UMC, Family Life Center
- Sunday School Teacher for Young Professionals
- Cub Scout Den Leader Pack 236

classrooms. The large space planned for the STEM lab will encourage hands-on exploration, learning, and technology integration. This addition will address the under utilization of Midland Trail as well as Anstead Middle.

Project Experience Other Firms

University of Kentucky Biopharmacy Building, Lexington, KY

Mrs. Perry worked as team member in the design the new \$134M College of Pharmacy Biopharmacy research building. The research facility builds on the state's initiative to address health challenges and disparities in KY. The building featured expansive auditorium style classrooms and a self-supporting stair, of which Mrs. Perry modeled and designed.

Kentucky Transportation Cabinet, DOH, District Five Office Building, Louisville, KY

Mrs. Perry acted as the Project Manager for this new office space for the Department of Highways. This project consisted of concrete and steel structural members. Mrs. Perry coordinated design efforts with a team of engineers, architects and the owner.

Moses Residence, Huntington, WV

Mrs. Perry was responsible for the structural design of the Moses Residence which includes ICF walls, timber, steel and concrete. This home is a zero net energy home and has platinum LEED certification.

Winfield H. Strock

Role

Construction Management/Estimator

Professional Registrations

Licensed Contractor [REDACTED]

Mr. Strock is a licensed contractor in West Virginia. When the West Virginia Contractor Licensing Act was passed in 1990, Mr. Strock was selected as Chairman of the Contractor Licensing Board and served in that capacity until his resignation in 1995. Mr. Strock has served as Chief Estimator, Field Engineer, and Project Manager on multiple jobs. Mr. Strock has also been the Principal/ Owner of his construction company for 17 years.

ZMM and Mr. Strock have successfully collaborated on a number of projects, including:

- District V Headquarters
- Forks of Coal
- Beech Fork Lodge
- Camp Dawson Building 202 Improvements
- Marshall County Readiness Center
- Logan-Mingo Readiness Center
- Parkersburg Readiness Center
- New Kanawha County (Clendenin) Elementary School
- New Mercer County Elementary School
- Mountain Valley Elementary School
- Williamstown Elementary School
- Building 5, 6, & 7 Improvements
- West Virginia State Police Information Services Center
- Edgewood Elementary School
- West Virginia State Lottery Headquarters Renovation
- Brooks Manor Addition and Renovation
- WVRTP Building 740 Improvements
- Charleston EDGE (Mixed-Use Housing)

Major Projects Estimated 2005-2012

Charleston Area Medical Center

Robert C. Byrd Clinical Teaching Center - \$70M

CAMC Cancer Center - \$40M

CAMC Memorial 48 Bed Addition - \$30M

West Virginia K-12 Schools

McDowell County Schools Relocation Program - \$50M

Putnam County Schools Bond Program - \$65M

Greenbrier West High School - \$21M

Mingo County High School - \$27M

Pikeview Middle School - \$16M

Spring Mills Primary School - \$13M

Edgewood Elementary School - \$16M

Employment History

1995 - Present, Principal, Construction Manager, Winfield Strock

1978 - 1995, Owner, President, Kenhill Construction Company

1965 - 1978, Field Engineer, Estimator, Project Manager, Messer Construction, Cincinnati, OH

Civic Affiliations

- Associated General Contractors of America - *Past Director*
- Contractors Association of West Virginia - *Past President/Director*
- Kanawha Valley Builders Association - *Past President*

West Virginia Applied Technology Centers

Williamson, WV - \$6M

Marion County, WV - \$14M

West Virginia Army National Guard Readiness Centers

Elkins, WV - \$22M

Ripley, WV - \$11M

Logan/Mingo Counties, WV - \$13M

New River Community College

Lewisburg, WV - \$6M

Beckley, WV - \$17M

References

Bradley Leslie, PE, Assistant Chief
WVDNR
State Parks Section
324 4th Avenue
So. Charleston, 25303
304.558.2764 x 51823

Greg Melton, Director of General Services
Capitol Complex Building
Building 1, Room MB-60
1900 Kanawha Blvd., E.
Charleston, WV 25305
304.558.2317

Captain M.G. Corsaro, Director of Executive Services
West Virginia State Police
725 Jefferson Road
So. Charleston, WV 25309
304.746.2115

Blair Couch, Commissioner
Wood County Commission
No. 1 Court Square
Suite 205
Parkersburg, WV 26101
304.424.1978