



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: 408420

Doc Description: A&E EOI for Demolition, Reconstruction, and ADA Restrooms

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2017-12-28	2018-01-25 13:30:00	CEOI 0403 DBS1800000001	1

**BID RECEIVING LOCATION**

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

**VENDOR**

Vendor Name, Address and Telephone Number:

01/25/18 12:13:18  
 WV Purchasing Division

**FOR INFORMATION CONTACT THE BUYER**

Michelle L Childers  
 (304) 558-2063  
 michelle.l.childers@wv.gov

Signature X

FEIN# 55-0676608

DATE 1/24/2018

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)

Contracting Business Entity: ZMM, Inc. Address: 222 Lee St., W., Chas., WV  
25302

Authorized Agent: David E. Ferguson Address: 222 Lee St., W., Chas., WV  
CEOI 0403 DBS1800000001 WV School for the Deaf and

Contract Number: \_\_\_\_\_ Contract Description: the Blind Demolition,  
Reconstruction, ADA Restrooms

Governmental agency awarding contract: State of WV Purchasing Division

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.

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: [Signature] Date Signed: 1/24/18

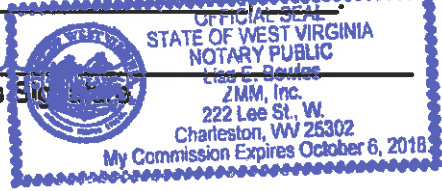
**Notary Verification**

State of West Virginia County of Kanawha:

I, David E. Ferguson, Principal [Signature], 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 24th day of January 2018

[Signature]  
Notary Public's Sig



**To be completed by State Agency:**

Date Received by State Agency: \_\_\_\_\_

Date submitted to Ethics Commission: \_\_\_\_\_

Governmental agency submitting Disclosure: \_\_\_\_\_

**ADDENDUM ACKNOWLEDGEMENT FORM  
SOLICITATION NO.:**

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

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

**Addendum Numbers Received:**

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

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

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

ZMM, Inc., Architects and Engineers

Company

Authorized Signature

January 24, 2018

Date

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

**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.

David E. Ferguson, AIA, REFP, Principal  
\_\_\_\_\_  
(Name, Title)  
David E. Ferguson AIA Principal  
\_\_\_\_\_  
(Printed Name and Title)  
222 Lee Street, West, Charleston, WV 25302  
\_\_\_\_\_  
(Address)  
304-342-0159 304-345-8144  
\_\_\_\_\_  
(Phone Number) / (Fax Number)  
ferguson@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., Architects and Engineers  
\_\_\_\_\_  
(Company)  
David E. Ferguson AIA Principal  
\_\_\_\_\_  
(Authorized Signature) (Representative Name, Title)  
David E. Ferguson, AIA, REFP, Principal  
\_\_\_\_\_  
(Printed Name and Title of Authorized Representative)  
January 24, 2018  
\_\_\_\_\_  
(Date)  
304-342-0159 304-345-8144  
\_\_\_\_\_  
(Phone Number) (Fax Number)

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.

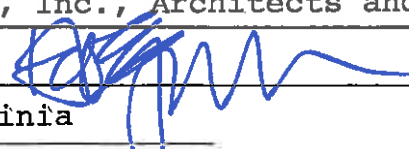
**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' 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., Architects and Engineers

Authorized Signature:  Date: January 24, 2018

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 24<sup>th</sup> day of January, 2018.

My Commission expires 10-6, 2018.



**NOTARY PUBLIC** 



January 24, 2018

Michelle L. Childers  
State of West Virginia  
Department of Administration, Purchasing Division  
2019 Washington Street, East  
Charleston, WV 25305

**Subject: WV Schools for the Deaf and the Blind Demolition, Reconstruction, ADA Restrooms**

Dear Ms. Childers:

ZMM is pleased to submit the attached qualifications that demonstrate our experience and capability to provide architectural and engineering services. ZMM has joined efforts with Dickinson & Partners, a leader in special needs design. This team combines a trusted local resource, ZMM, with the nation's leading designer for educating facilities for the deaf and the blind.

ZMM is one of few full service A/E Firms in West Virginia, and is noted for design excellence and client focus. ZMM and Dickinson & Partners have completed the current CEFP at the WV Schools for the Deaf and the Blind and have intimate knowledge of the campus and all of their facilities. ZMM has completed over 200 educational facilities throughout the state. Our experience in West Virginia spans five decades, and has been recognized with both statewide and national planning and design awards.

Dickinson & Partners (D&P) offers extensive experience in Programming and design of educational and student housing facilities for the deaf and blind, with the goal of enhancing performance and meeting the needs of owners and users. D&P has been recognized as being among the top firms in the country in areas of special needs, designing various educational centers throughout the states of Virginia, Pennsylvania, New York, and most recently Qatar.

As a full service design firm, ZMM employs all of the disciplines in-house to undertake the maintenance projects outlined in the request for expression of interest. If selected to provide services for the project, ZMM would set up teams under the direction of David E. Ferguson, AIA – Project Principal and John Dickinson, AIA – Project Principal, two professionals with considerable experience and a history of working closely with the West Virginia Schools for the Deaf and the Blind (WVSDDB). This approach will provide the WVSDDB with a single, central point of contact for all of the design work, while simultaneously allowing all of the work to progress.

Thank you for taking the time to review the attached information that details our project team, firm profiles, experience, qualifications, personnel, and references. Additionally, please visit our website [www.zmm.com](http://www.zmm.com) to learn more about working with ZMM from a client's perspective. We look forward to presenting our ideas for this project, and appreciate your consideration for this important endeavor.

Respectfully submitted,

**ZMM, Inc.**

A handwritten signature in blue ink, appearing to read 'David E. Ferguson', is written over a horizontal line.

David E. Ferguson, AIA, REFP

Principal

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**LOCATION:**  
222 Lee Street, West  
Charleston, WV

**CONTACT:**  
Phone 304.342.0159  
Fax 304.345.8144  
www.zmm.com

## History of ZMM



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
- Structural Engineering
- Mechanical Engineering
- Electrical Engineering
- Civil Engineering
- Lighting Design
- Energy Consumption Analysis

**Post Design**

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



# Award Winning Design



## **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

## **2014**

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

# Award Winning Design



**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

## **2010**

**AIA West Virginia Chapter: Honor Award**  
*Excellence in Architecture*  
Hacker Valley PK-8 School  
Hacker Valley, West Virginia



# History of Dickenson & Partners



**Dickenson & Partners**

**CONTACT:**  
John Dickenson  
Dickenson & Partners  
dickenpartners.com

## History



Dickenson & Partners offers extensive experience in programming and design of educational and housing facilities for the deaf and the blind, with the goal of enhancing performance and meeting the needs of owners and users. Although substantial guidelines exist for addressing design needs for persons with mobility impairments, little formal literature exists that describes the special programming requirements for deaf and blind populations. In response to this need, Winter & Company established a special consulting studio in 2001 to provide facilities programming for special needs projects and deaf/blind facilities, as well as programming for mobility-impaired users. WCSNS has consulted on projects across the nation and been recognized as one of the top firms in the country in the area of special needs programming and design. Our clients appreciate our ability to meet schedules, honor budgets and solve problems.

The design of innovative living and learning environments has long been cornerstone of Dickenson & Partners Special Needs Studio practice. The profile of designing for today's special needs and blind education facilities is changing. State governments and school agencies are upgrading and expanding programs, facilities and systems to meet new standards, set forth by the Americans With Disabilities Act (ADA) and the Department of Education's "Special Education Facilities 2001" guidelines. In addition, continual advancements in technology and the constant need for adaptive reuse require agencies, architects and planners to be forward-thinking and solution oriented. Plans must provide for new and effective visual and functional communication access for blind students and their staff.

One of the truly measurable, tangible attributes we bring to the West Virginia School for the Deaf and the Blind is our adept ability to listen, comprehend, and communicate closely with you every step of the way. We communicate in a language and a manner that is meaningful and of value to you. We do not bring our own agenda or prescription for the design of your building. Instead, we develop ideas and solutions that are custom-tailored for you, and are derived from the unique participants and circumstances that frame any given design venture. You will have at your fingertips a top team with experience and passion for this project type, all whom are committed to elevating the genre of each component each phase of the way.

Education and Residence life on campus must meet students needs and secure their ability to both succeed and develop. Plain and simple. Deaf students need an environment that is conducive to healthy living and learning. They need a sense of safety and security within the student community. They need to learn life skills tailored to their deafness to complement their academic progress and assist them in well-balanced individuals. And, they need opportunities and encouragement to grow.

# David E. Ferguson, AIA, REFP



**Role**  
Principal

**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 90 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**

**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

## **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**

- West Virginia Chapter, American Institute of Architects, Past President
- West Virginia Chapter, American Institute of Architects, Board Director
- American Institute of Architects, Member
- Member, Council of Educational Facility Planners International (CEFPI)
- Recognized Educational Facility Planner (REFP) by the CEFPI
- Professional Member, US Green Building Council
- High School Mentoring/Job Shadowing Program for 6 County School Systems
- WV AIA IDP Program Mentor/Advisor

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 rather than sitting in a classroom with one subject being taught at 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.

**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.

**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.

**Cabell County Bond Program:** Mr. Ferguson assisted Cabell County in developing budgets, project scopes and passing the largest bond program in West Virginia. This encompassed four projects and with additional funding from the West Virginia School Building Authority exceeded \$72 million dollars. As Principal, Mr. Ferguson led the programming and design effort on all four facilities.

**Wayne County Bond Program:** Mr. Ferguson assisted Wayne County Schools in passing an \$18,000,000. The passage of the bond will create a New Crum PK-8 School, a New Ceredo-Kenova Elementary School and Additions and Renovations to Wayne High School. The overall process involved community meetings, establishing goals and priorities, creating overall budgets and a project scope that the citizens would support. ZMM assisted Wayne County Schools with distributing information, working with the bond committee and Bond Council to establish the actual Bond Call and assisting with public awareness throughout the county. ZMM worked facilitated meetings with the WV School building Authority and Wayne County Schools to create an overall project Budget of \$42,200,000.

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

2017 WV AIA Merit Award Explorer Academy, Huntington, WV

2016 WV AIA Merit Award Gauley River Elementary School, Craigsville, WV

2015 WV AIA Merit Award Kenna Elementary School, Kenna, WV

2014 WV AIA Merit Award Southern WV Community & Technical College, Williamson, WV

2014 WV AIA Merit Award Huntington East Middle School, Cabell County Schools, Huntington, WV

2010 WV AIA Honor Award Hacker Valley PK-8 School, Webster County Schools, Hacker Valley, WV

# The West Virginia Board of Architects

certifies that

DAVID E. FERGUSON

is registered and authorized to practice  
Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued  
by the authority of this board.

Certificate Number [REDACTED]

*The registration is in good standing until June 30, 2018.*



A handwritten signature in cursive script, reading "Emily Papadimitriou", written on a light-colored rectangular background.

Board Administrator

# John C. Dickinson, AIA, CEFPI



**Role**  
Studio Director

**Professional Registrations**  
Registered Architect (KY, CO, NM, CA)

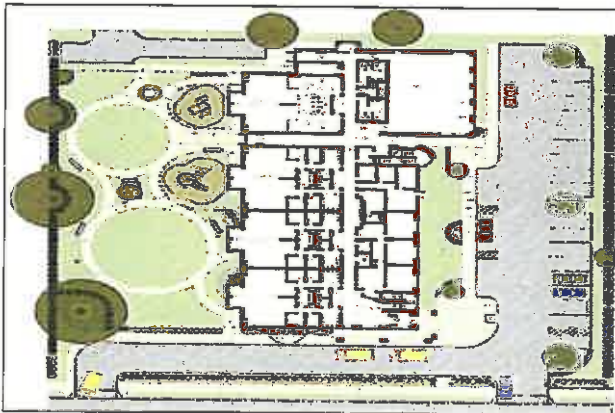
John Dickinson is a notable deaf Architect and project manager with over twenty five years of experience providing a wide range of architectural services for educational, healthcare, banking, telecommunications and commercial facilities. Mr. Dickinson received the AIA Award of Educational Design Excellence for his design of Columbine Senior High School in Littleton, Colorado.

Mr. Dickinson, who has been profoundly deaf since the age of two, has provided architectural services for deaf and blind schools and senior housing all over the U.S. and understands that developing facilities for the deaf and blind populations requires careful consideration of multiple issues. He has the ability to capture the intricacies and nuances of the deaf and blind environment and translate them into an effective setting that encourages performance and growth.

**Project Experience**  
**Gallaudet University, Washington DC**  
Sorenson Language & Communication Center Programming

**Rhode Island School for the Deaf, Providence, RI**  
Programming and New Facilities Feasibility Study

**Pennsylvania School for the Deaf, Philadelphia, PA**  
Campus Wide Master Plan and New Early Childhood Center (below)



## Education

Masters in Business Administration,  
University of Phoenix, 1998

Bachelor of Architecture, University of  
Kentucky, 1988

Diploma, E'cole des Architecture,  
Paris, France

## Employment History

1999 - Present, Principal, Studio  
Manager, Dickenson & Partners

## Civic Associations

- American Institute of Architects
- Council Educational Facility Planners International
- Colorado Association of the Deaf
- National Association of the Deaf
- National Task Force Deaf Seniors Coalition
- Board of Trustee-Colorado School for the Deaf and the Blind



**Middletown Deaf Housing and Apartments, Middletown, CT**  
New Mixed-Use Housing for the Deaf Design and Planning

**Colorado School for the Deaf and Blind, Colorado Springs, CO**  
Master Plan and Ritter Hall Programming & Design

**Ohio School for the Deaf, Columbus, Ohio**  
New Educational Center and Residence Halls  
(below)



**Governor Baxter School for the Deaf, Portland, ME**  
Master Plan and New K-8 Educational Center

**Rocky Mountain Deaf School, Denver, Colorado**  
New K-12 Campus

# Nathan Spencer, AIA



**Role**  
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**

**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 21<sup>st</sup> 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.

**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

## **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

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.

#### **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 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 150<sup>th</sup> Armored Reconnaissance Squadron and the 156<sup>th</sup> 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.

#### **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.

#### **Additional Projects:**

Charleston Civic Center, Charleston, WV  
Wayne High School, Wayne, WV  
Crum PK-8 School, Crum, WV

# The West Virginia Board of Architects

certifies that

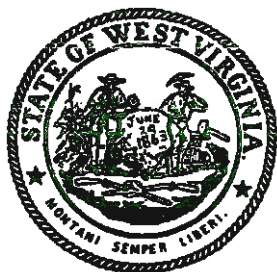
**NATHANIEL HAROLD SPENCER**

is registered and authorized to practice  
Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued  
by the authority of this board.

Certificate Number [REDACTED]

*The registration is in good standing until June 30, 2018.*



A handwritten signature in cursive script, reading "Emily Papadopoulos".

Board Administrator



## 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.

### **Fayette County Schools, 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.

### **Charleston Civic Center, Charleston, WV**

Mrs. Chapman is currently assisting 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 is scheduled for completion in 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 will be replacing an existing structure that was recently demolished earlier this year. 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

new building will house 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 DIRT wall systems, renovations to nurse, admirative and patient areas, as well as common's areas.

# 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 is 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 is scheduled for completion in 2018.

### **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, Craigsville, WV**

Mr. Casdorff was responsible for the electrical design of the new elementary school. The project is consolidating Beaver

## **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

Elementary School and Craigsville Elementary School into a new 375-student school. The school houses 3 Pre-Kindergartens, 3 Kindergartens, 2 first grade, 12 1<sup>st</sup>-5<sup>th</sup> 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 21<sup>st</sup> 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.

**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.

**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.

**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 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 77<sup>th</sup> Brigade Troop Command, the 1863<sup>rd</sup> Transportation Company, and the 150<sup>th</sup> 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.





**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)

# 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

**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 21<sup>st</sup> 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'

## 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

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.

**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.

**Current 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.



## 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 is serving as Construction Administrator of the new Community Center building and renovation at Valley Park. The \$15M construction project includes a new community building, ball fields and a playground. Mrs. Perry is responsible for the administrative duties, performing on-site observations and tracking construction progress. Mrs. Perry collaborates with the client, design team and contractors to confirm that project guidelines are satisfactorily met. Substantial completion for the project is set for May of 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 20<sup>th</sup> 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.

# West Virginia Schools for the Deaf and Blind

West Virginia Board of Education



**LOCATION:**  
Romney, WV

**SIZE:**  
300,000 SF

**CONTACT:**  
Dr. Lynn Boyer  
Superintendent  
301 East Main Street  
Romney, WV 26757  
304.822.4800

**CONSULTANT:**  
John Dickinson  
Dickinson & Partners  
dickinsonpartners.com



Per the direction of the WV Board of Education and the WV School Building Authority, the West Virginia Schools for the Deaf and Blind has undertaken the task of creating a *Comprehensive Educational Facility Plan (CEFP)*. ZMM Architects & Engineers combined forces with Dickinson & Partners, an architectural firm specializing in Special Needs Architecture, to have a complete understanding and working knowledge of the requirements and challenges faced when designing for Deaf and Blind student population. ZMM understands the WV school Building Authority's policies and the guidelines of the WV Department of Education, along with the having a working knowledge of other state agencies, makes creating this document easier to navigate through the process.

The purpose of the CEFP is to provide the owner a long range plan that addresses the requirements for new construction and major renovations. Comprehensive planning is a way of identifying the best route to the future through a workable plan for handling priority related and anticipated changes. The CEFP defines ultimate goals for the institution and accounts for the facilities required to achieve these goals. The goals are defined then realized, if necessary, through several phases of construction.

A planning team was established consisting of citizens, teachers, staff, and business owners. Goals and Objectives were developed and data was compiled concerning enrollment and population growth. Along with the educational plan that was developed, the existing facilities were reviewed for compliance with all state and local codes. The buildings and adjacent sites were also reviewed for any physical deficiencies along with educational deficiencies. The owner's insurance reports were also reviewed and any information outstanding will be incorporated into the document. Public meetings were conducted, and the final meeting was a public hearing for concerned citizens. At that meeting the public will be able to voice concerns of the process or the final outcome of the CEFP document.

The ultimate goal is to develop a comprehensive facility plan for the campus, based on local input, that can be implemented by the school.

## Relevant Experience

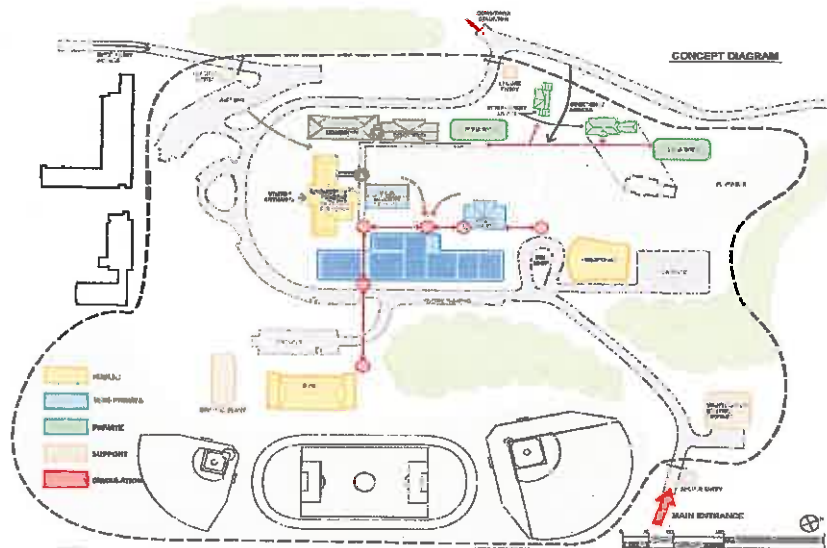


### Dickinson & Partners

LOCATION:  
Scranton, VA

COMPLETION:  
Construction starts 2010

## Virginia School for the Deaf and the Blind



The rural campus on which the schools are located is heavily regulated due to its civil war era history. This posed a huge challenge for the State of Virginia to maintain various programs and different special needs identities, while modernizing and expanding new educational programs. Winter & Company Special Needs Studio, along with BCWH of Richmond, Virginia, were selected to work with these constraints and create a new program, and design and build new facilities. Construction is scheduled to begin in 2010.

## Pennsylvania School for the Deaf

*New Campus Master Planning*

LOCATION:  
Philadelphia, PA

COMPLETION:  
TBD

Winter & Company Special Needs Studio and Winter & Company Urban Planning recently completed an update of the existing master plan to reflect the changing needs of the student population while creating a more integrated learning environment.



The master plan update evaluated the current and projected educational needs of the school, identified academic program needs, key campus historic resources, institutional goals and recommended a framework for capital improvement decisions.

## Relevant Experience



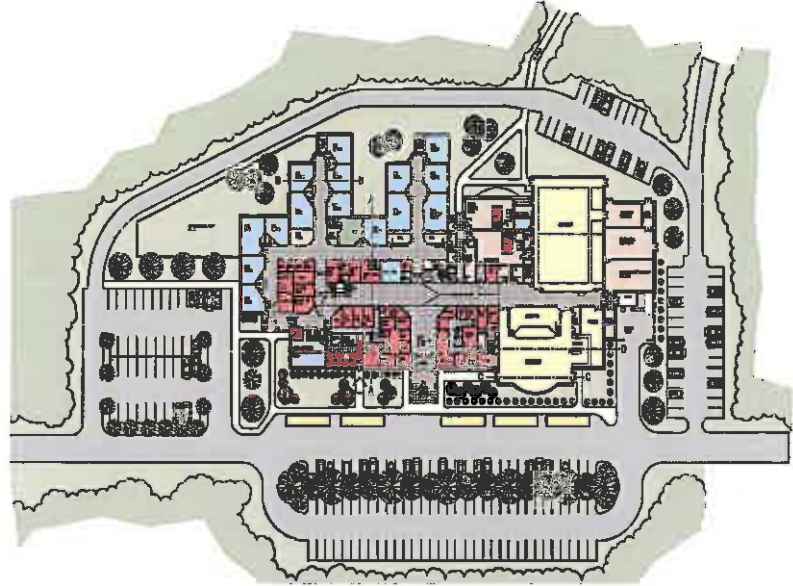
### Dickinson & Partners

LOCATION:  
Providence, RI

## Rhode Island School for the Deaf

### *A building fit for a kid...*

The Rhode Island School for the Deaf has extremely high expectations for their first new campus facility, commissioned by the State of Rhode Island. Drawn to the natural beauty of the site, Winter & Company Special Needs Studio, along with Design Partnership of Cambridge, worked to accomplish the project's main goal of creating a building that is sensitive to the size of students with special needs. Everything within the building from the stage in the "cafetorium" to the desks in the classrooms will be scaled for young children.



LOCATION:  
South Hartford, CT

SIZE:  
25,000 SF

COMPLETION:  
October 2009  
Philadelphia, PA

## Southbridge School

Winter & Company Special Needs Studio completed the design of a new 25,000 SF addition including a one-story classroom building and distance-learning center for the Southbridge School. The school will provide method distance learning classrooms to be utilized by the community and special education at the school. The new building includes a direct, level-to-level connection with its existing floors to provide maximum utility and to improve the accessibility of the original building.





## Relevant Experience



### Dickinson & Partners

**LOCATION:**  
Philadelphia, PA

**SIZE:**  
21,530 SF

**COMPLETION:**  
2005

## Pennsylvania School for the Deaf



Winter & Company Special Needs Studio was hired by the school to work with the local architect on the programming and design to ensure that it accommodated the needs of the deaf and hard-of-hearing. The objectives were to create a functional deaf-friendly and economical facility that encourages activity and interaction and promotes excitement about learning. The new 21,530 SF building is organized along straightforward corridor arrangements. The project was completed in 2005.

## American School for the Deaf

**LOCATION:**  
West Hartford, CT

**SIZE:**  
110,000 SF

**COST:**  
\$27M

The American School for the Deaf was the first deaf school in the United States. Winter & Company Special Needs Studio, along with EYP-Boston, was honored to be selected to provide architectural and engineering services for comprehensive renovations to an 110,000 SF historic 1820s education building. The scope of work includes a complete renovation to the interior and exterior of the building. Project budget was \$27 million.



## Relevant Experience



### Dickinson & Partners

LOCATION:  
Washington, DC

SIZE:  
21,530 SF

COMPLETION:  
2005

## Gallaudet University Clerc Residence Hall

An aging college residence hall hindered, rather than enhanced, the student life experience, and most of the halls had not been updated to accommodate advances in deaf resident's life and safety needs. Winter & Company Special Needs Studio along with ASG Architects and Deaf Space Group worked together to develop a concept design to provide new student apartments and a multimedia visual theater. The architectural language for the renovated hall was carefully developed to relate to the historic campus context and visual technology that are found around the campus. The drawings are completed but construction is on hold due to funding.



## Kentucky School for the Deaf

### *Kerr Hall Renovation*

LOCATION:  
Danville, KY



The Kentucky School for the Deaf, located in Danville, Kentucky, serves over 200 deaf and special needs students from all over the state. Winter & Company Special Needs Studio was retained by the State of Kentucky in 2004 with the goal to open the school for fall semester of 2006. The building has been completely renovated to include 25 classrooms, library/media center, offices, visual arts technology lab and full science labs. Construction took less than 12 months to complete.

# Explorer Academy

Cabell County Schools



LOCATION:  
Huntington, WV

SIZE:  
60,000 SF

COMPLETION:  
2015

COST:  
\$15M

CONTACT:  
James Colegrove  
Assistant Superintendent  
2850 5th Avenue  
Huntington, WV 25702  
304.824.3033

AWARD:  
2017 AIA Merit Award  
West Virginia Chapter  
*Achievement in  
Architecture*



## A New Learning Model – Cabell County's New Expeditionary School

Students set foot this past fall into a new Expeditionary Learning Incubator School, which is the first of its kind in West Virginia.

Cabell County School officials are excited about a new school they hope will set an example for schools around the state. Cabell County School Board officials hope it is the next step in education. It is a consolidation of Peyton Elementary and Geneva Kent Elementary in the east end of Huntington. The schools were combined to form the incubator school, which is housed in the former Beverly Hills Middle School facility that will be remodeled to fit the mold of the Expeditionary Learning model.

Cabell County School officials describe the school as an incubator school because of the experimental learning environment. They hope what they learn from their experiment leads to other school districts around the state doing their own experiments and developing expeditionary learning environments of their own. Known as EL for short, students will learn about completing projects that will stretch across different subject areas and can sometimes take the entire school year.

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 will be going out and doing field work, which is much different than a field trip. In Expeditionary Learning, students learn by conducting learning expeditions rather than by sitting in a classroom being taught one subject at a time.



# Explorer Academy

*Cabell County Schools*



The school system has partnered with Marshall University to offer teachers in Cabell County and throughout the state training on the new curriculum.

In addition to creating separate bus and parent loading and unloading areas with additional parking, renovations include an enlarged Dining and Kitchen space to accommodate the student population. The facility will have a new HVAC system and new lighting to replace the original outdated systems and bring the building up to current codes and standards. The Media Center has been renovated to accommodate current technology needs and it overlooks a outdoor rooftop classroom space for all students. Studio spaces are scattered throughout the building for teachers to take students for collaboration on special projects. Student display areas are distributed throughout the building on every space available. This is evident from the front door as you begin your walk through the building. Student art walls are also located throughout the building as well as outside the building so students can create their own atmosphere from day to day. Totally renovated Art and Science Classrooms anchor the second floor space. Old locker rooms were removed and building circulation was improved for students to move freely throughout the building. A new music room was created close to the refinished Gymnasium and performance platform.

Site amenities include a nature trail, new steps to lower portions of the site not accessible before, a walking deck that overlooks the vegetation and puts students into the canopies of certain trees to view and study plant life at a higher level. An amphitheatre, green house, gazebo, pizza oven, artificial turf and the required play areas complete the learning centers outside of the building.

# Southside Elementary & Huntington Middle School

Cabell County Schools



LOCATION:  
Huntington, WV

SIZE:  
158,194 SF

COMPLETION:  
2010

COST:  
\$27M

CONTACT:  
James Colegrove  
Asst. Superintendent  
2850 5th Avenue  
Huntington, WV 25702  
304.824.3033

AWARDS:  
2011 AIA Honor Award  
West Virginia Chapter  
*Excellence in Architecture  
Preservation*



The two schools that previously occupied the site of the New Southside Elementary School and Huntington Middle School were known as Cammack Elementary School and Cammack Middle School. The new facility houses a combined 1,014 Elementary and Middle School students. When the Cabell County Board of Education proposed a \$61M bond issue in 2006, the Huntington community expressed the importance of saving this neighborhood landmark.

The new facilities were designed to blend with the architectural character of the existing facility. More than 70% of the existing building was demolished and the portion remaining was completely renovated. Two new stair towers provide a vertical architectural element that separates the existing structure from the new construction. The result is a cohesive design that blends the unique elements of the former Cammack School into a modern educational complex that exceeds the requirements of 21<sup>st</sup> century learning.



## Southside Elementary & Huntington Middle School



Although the expanded facility houses both an elementary and a middle school, each have their own distinct entrance and administrative complex and the students remain physically separated on opposite sides of the facility. The new schools only share a kitchen, which has been located to serve separate dining facilities.

With the community's support of the bond, ZMM has designed a facility that maintains the historic character of the façade and auditorium, while replacing the remainder of the facility. The community has maintained a landmark, while developing new state of the art elementary and middle schools.



# Crum PK-8 School

Wayne County Schools

**LOCATION:**  
Crum, WV

**SIZE:**  
66,000 SF

**COST:**  
\$16M

**COMPLETION:**  
2017

**CONTACT:**  
Todd Alexander  
Superintendent  
PO Box 70  
Wayne, WV 25570  
304.272.5116



The new Crum PK-8 School replaces two existing facilities that have been in disrepair and lacking spaces and technology delivery systems required for 21st century learning skills. The total enrollment for the school is 356 students. The new grade configuration separated 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 stage.

The new school is more energy efficient than the previous facility. It also is easily maintained with its polished concrete floors throughout the school. The gymnasium is located for ease of public access but can be divided for simultaneous use by elementary and middle school classes.

The academic areas have easy access to the state-of-the-art media center. Each classroom has several student computer locations and a teacher location. In addition to the typical classrooms there are science classrooms and labs, teacher planning areas and separate administrative areas for elementary and middle school. The new facility is home to a new vocational agriculture classroom/lab with an attached greenhouse.

# Ceredo-Kenova Elementary School

Wayne County Schools



LOCATION:  
Kenova, WV

SIZE:  
50,000 SF

COST:  
\$13M

COMPLETION:  
2017

CONTACT:  
Todd Alexander  
Superintendent  
PO Box 70  
Wayne, WV 25570  
304.272.5116



CK Elementary School is a new 50,000 SF facility located in Kenova, West Virginia. The Wayne County Board of Education consolidated two schools, Kenova Elementary and Ceredo Elementary, into one state-of-the-art facility. This new school was part of the Wayne County School Bond.

The school houses approximately 450 students in grades pre-kindergarten through five. The new school also includes a music/art room, physical education/cafeteria space, clinic, special needs rooms, a secure entry for students and visitors. The media center provides an open window to learning and to the world of the twenty-first century.

The site layout is efficient with a separate bus drop-off area and parent drop-off area. There is a wide open play space for students, as well as a fenced in play yard. Multi-color brick and metal panels adorn the exterior of the school, while enhancing the surrounding residential area.





# Kenna Elementary School

Jackson County Schools



LOCATION:  
Kenna, WV

SIZE:  
48,000 SF

COST:  
\$10.8M

COMPLETION:  
2014

CONTACT:  
Mr. Blaine Hess  
Superintendent  
PO Box 770  
Ripley, WV 25271  
304.372.7300

AWARD:  
2015 AIA Merit Award  
West Virginia Chapter  
*Excellence in Architecture  
Design*



The New Kenna Elementary School will serve approximately 375 students in grades Pre-Kindergarten through 5<sup>th</sup> Grade. The new facility will replace the existing school that was falling into disrepair and lacked the essential spaces for a thriving 21<sup>st</sup> Century learning environment. The new school includes a physical education/cafeteria space, state-of-the-art media center, art/science room, music room, full kitchen, and two computer classrooms. The classrooms have large windows that allow for natural light, as well as great views to the surrounding wooded hills.

The entry area includes concrete inlaid into the brick wall that contains images of various state landmarks and features. The entrance also features an inverted gable that adds drama and scale, while the interior finishes were selected to reflect a natural river.

The site includes a separate bus drop-off area and parent drop-off area. There is also a designated Pre-K drop-off. A fenced Pre-K/K play area is provided, as well as a play area for the Grades 1-5. Several playing fields will be located on site as well.

We worked closely with the school's design committee to ensure their vision for this project. The school's materials include brick, stone, wood, and metal. The school colors and theme were incorporated into the interior design through paint, carpet, tile patterns.

# Culloden Elementary School

*Cabell County Schools*



**LOCATION:**  
Culloden, WV

**SIZE:**  
20,000 SF (Addition)

**COMPLETION:**  
2015

**CONTACT:**  
James Colegrove  
Assistant Superintendent  
2850 5th Avenue  
Huntington, WV 25702  
304.824.3033



Culloden Elementary School has received a new 20,000 SF addition. This project encompasses all phases of construction; demolition, major renovation and new construction. The original single story school building was demolished and students were housed in temporary modular classrooms as the new addition was being constructed.

This facility houses 250 PK thru 5 Elementary Students. The new facility will consist of a new "safe schools" entrance adjacent to the new Administrative Complex and School Clinic. A new Media Center and Computer lab will be constructed to replace the older modular classrooms currently being used on site. A new Multipurpose Space will be built to better serve the student population during the lunchtime activities in the Cafeteria. A new Parking area will also be located in close proximity to the school entrance and measures will be taken to ensure the safety of the students in the daytime hours to reduce the amount of vehicular traffic through the campus.

The academic areas have easy access to the state of the art Media Center and two Computer labs, one for each grade configuration. One Computer Lab is located by the Media Center for adult instruction in the off school hours. Each Classroom has several student computer locations and a teacher location. In addition to the typical classrooms there are Science Classrooms and Labs, Teacher Planning Areas and separate Administrative Areas for Elementary and Middle School.

# St. Albans High School

Kanawha County Schools



**LOCATION:**  
St. Albans, WV

**SIZE:**  
216,500 SF

**COMPLETION:**  
2003

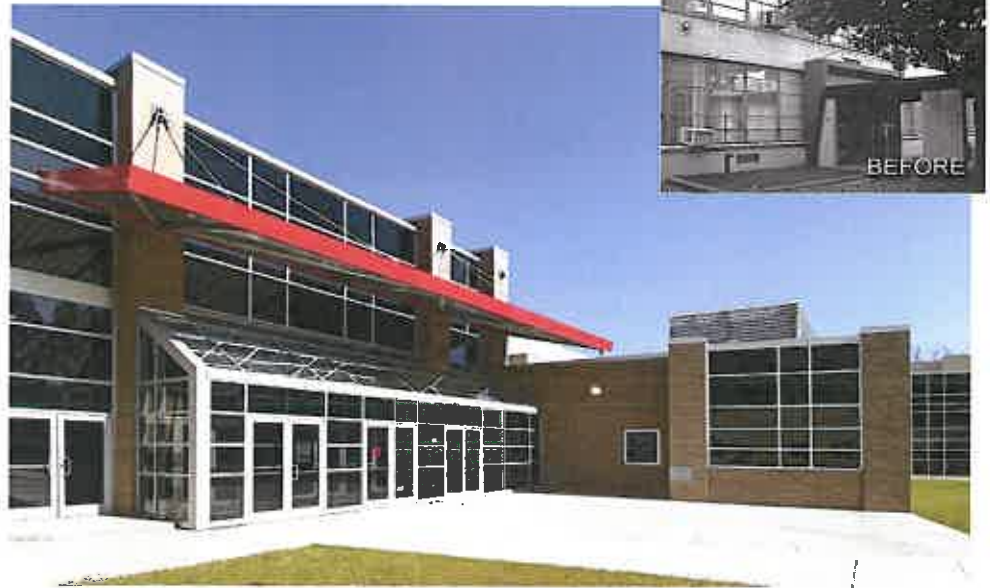
**COST:**  
\$24M

**CONTACT:**  
Dr. Ron Duerring  
Superintendent  
200 Elizabeth Street  
Charleston, WV 25523  
304.348.7732

**AWARDS:**  
Impact on Learning Award  
*Effective Transformation*

Education Design Showcase  
*Outstanding Building Design*

American School & University  
*Outstanding Building Design*



One outstanding feature of the completed renovation of St. Albans High School is its unique, inviting physical entryway and the aesthetically pleasing and functional commons/cafeteria area. The commons is a visual focal point of the school creating a natural flow from the front entrance, through the commons to the outside assembly/instructional area, it also serves as a connecting hub between the academic spaces and the physical education and auditorium areas.

Significant green space was retained and enhanced which providing an inviting and safe approach to the high school building. An outside amphitheater, located adjacent to the music and theater departments, provides ample space for music and drama productions as well as a gathering space for students. In response to the students need for more "outside living space" the rear dining plaza was created. It has a visual impact on the interior and provides a flexible learning environment for the students and educators.

The addition of an auxiliary gym, renovations to the auditorium complex, a new media center and other additions and improvements allow spaces for more extensive use by the community. Renovations to the auditorium resulted in a space that is educationally functional and is a source of pride for the students and the entire community.



# St. Albans High School



Instructional spaces have been designed to be flexible, adaptable and accommodating for the more active, student oriented instructional programs and methods of the district. Classroom and other spaces are bright and welcoming for students and staff and appropriate space and equipment are provided to allow for the efficient and effective delivery of program objectives.

Responding to concerns from students, staff and the community, and due to the condition of existing science facilities, science wing was completely replaced with modern, functional and flexible space and equipment.

Provisions for new and emerging technologies were greatly enhanced throughout the building. The new media center is the central hub for technology and with the inclusion of an appropriate infrastructure, providing flexibility needed for the technology of the future. St. Albans High School was completed during the summer of 2003 and was occupied by the student body at the beginning of the 2003-2004 school year.



# 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!"

# Goodwill Prosperity Center

*Historic Renovation*



**LOCATION:**  
Charleston, WV

**SIZE:**  
10,200 SF

**COMPLETION:**  
2015

**COST:**  
\$960,000

**CONTACT:**  
Cheri Bever, President  
Goodwill Industries  
215 Virginia Street, W.  
Charleston, WV 25302  
304.346.0811



Goodwill's newly renovated Prosperity Center is located on Virginia Street (West) in Charleston. This facility will help prepare members of the community for the workforce, and will expand Goodwill's outreach opportunities. Inside the facility is several classrooms, a computer room, and a Career Center that is equipped with all the tools needed to prepare and apply for a job. A spacious and colorful lobby provides a relaxed atmosphere for visitors. Inside the center is a "Suited for Success" room where work-appropriate clothing will be available to those who need it.

The building, which was once the Charleston Transit Authority's bus garage, underwent a major exterior transformation. Layers of stucco were removed to open up the old garage bays, and glass was infilled into these openings to give the center a tremendous amount of natural light. The original brick was exposed, repointed, and painted. The improvements made to the exterior showcase the historic nature of the building while upholding the modern amenities needed for today.

# Charleston Civic Center Expansion and Renovation



**LOCATION:**  
Charleston, WV

**SIZE:**  
283,000 SF

**COMPLETION:**  
Est. 2017

**COST:**  
\$75M

**CONTACT:**  
Mr. David Molgaard  
City Manager  
City of Charleston  
501 Virginia Street, E.  
Room 101  
Charleston, WV 25301  
304.348.8014



The Charleston Civic Center Expansion and Renovation is a transformational project for both the city of Charleston and West Virginia. Our team is building on the strong authentic character of Charleston to remake the Charleston Civic Center into a more efficient, more sustainable, more dynamic and a more iconic best-in-class destination.

The design of the expansion and renovation of the Charleston Civic Center is inspired by the story of West Virginia. Defined by a rugged landscape, the early history of the state was dominated by extractive industries --salt, coal, timber, trapping. This set the local character. With a foundation rich in resources, manufacturing added value to the raw materials with crafts like glass making and industries like chemicals and energy. This attracted a rich diversity of immigrants and a culture of craftsmanship that set the urban character. The economy is shifting from industry and service to information and technology. Again, the landscape and industry that shaped the region gives Charleston real advantages to exploit. The Creative Class, critical for the information and technology age, can live and work anywhere - what they want is access to the outdoors; real places with real character; and continuous education and entertainment.

Our design starts with an organizational concept inspired by this history. The Kanawha River is the social organizing link throughout the region, with settlement zones developing on whatever flatland the river provided --creating nodes of activities among the hills and valleys.





# Charleston Civic Center Expansion and Renovation



The renovated Civic Center is a building that emerges from this iconic landscape, with the architecture and topography working together. The Civic Center will also have distinct active nodes to celebrate each activity; arena, convention, and banquet, and these nodes are connected like the hills and cut rock faces that are seen throughout the state as people work to connect to each other through the landscape.

The first critical design objective is to create separate entries and identities for the arena and convention center. This will allow for simultaneous events and clarity of use. For the convention center to thrive, it needs a real ballroom assembly space. Located overlooking the Elk River, the new ballroom pre-function space will be the most dramatic feature of the center. Together, the three glass enclosed nodes –arena lobby, convention lobby, ballroom –define a unique Charleston event campus. As described above, the spaces that connect these nodes are inspired by the hills and cut rock faces that connect the towns along the Kanawha River. With the building emerging from the landscape and expressed as cut rock walls, the connecting areas are designed to be expressive and economical backdrops to the glass boxed nodes.

While the expansion will transform the southeast to the middle of the northern zone of the site, the existing building mass will still dominate a portion of the northern and eastern campus. The dominant expression along these existing facades is the landscaped berms. As we imagined the new building expression emerging from the landscape, a strategy developed to transform these berms to reflect, at the pedestrian level, the overall design theme. Above the level of the berms, the new concourse level windows will open up the facade and provide a much needed break in the massing. The upper part of the arena will be painted in two tones to match the new building, playing off the different faces. The north, south, east and west faces painted a lighter shade; and the northeast, southeast, southwest and northwest faces a darker shade. Dramatic exterior color-changing lighting on the northeast, southeast, southwest and northwest faces will then transform the look and feel of the center into a fun and festive landmark.

# Charleston EDGE Complex



**LOCATION:**  
Charleston, WV

**SIZE:**  
41,250 SF

**COMPLETION:**  
TBD

**COST:**  
\$10M

**CONTACT:**  
Mr. David Molgaard  
City Manager  
City of Charleston  
501 Virginia Street, E.  
Room 101  
Charleston, WV 25301  
304.348.8014



The proposed Charleston EDGE mixed use facility is unlike a traditional mixed-use development. While the facility may contain 30-40 residential units, with program space, and retail on the first level, the real purpose of EDGE is to provide a facility that will serve to provide housing and activity space for an innovative program that aims to attract and retain young talent to the Charleston community. EDGE will help to cultivate the young talent that participates in the program, and will serve as a sustainable economic development tool in our urban village district.

ZMM Architects and Engineers in association with Cooper Carry is currently assisting in the design and development of the Charleston EDGE Complex. The ZMM-Cooper Carry team conducted a visioning and design session where the design team obtained input from various community leaders and young professionals to investigate scenarios to optimize the potential development.

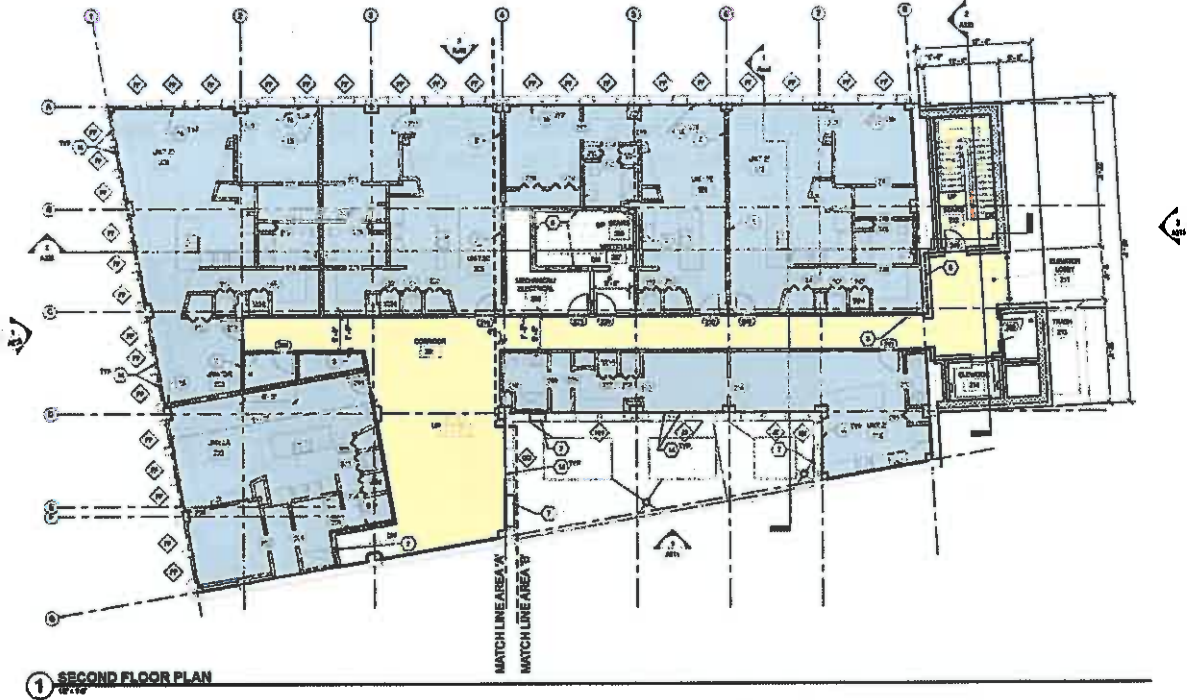
Following these meetings, ZMM has been developing several of the strategies to facilitate decision making by the project stakeholders. The current design solutions include a retail, lobby, and surface parking pedestal, with a variety of unit types occupying the upper levels.



# Charleston EDGE Complex



The pedestal creates the opportunity for a raised amenity deck, with an adjacent club room and activity spaces. The advancements that Charleston has made to develop a vibrant downtown, create an active arts community, and engage young talent through organizations like Leadership Kanawha Valley and Generation Charleston have paid dividends for the business community – and Charleston EDGE is the next step in facilitating a bright future for the Charleston area.



# Bridgemont Community & Technical College

*Davis Hall Renovation*



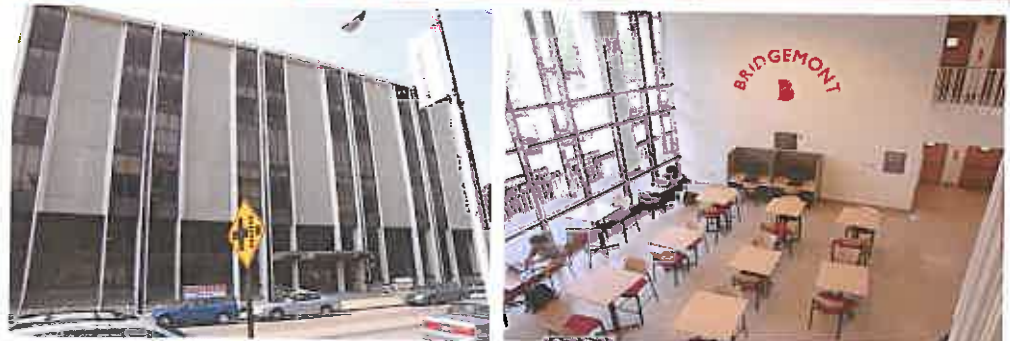
**LOCATION:**  
Montgomery, WV

**SIZE:**  
77,215 SF

**COMPLETION:**  
Summer 2012

**COST:**  
\$4M

**CONTACT:**  
Dr. Jo Harris, President  
(Retired)  
619 2nd Avenue  
Montgomery, WV 25136  
304.741.4116 (cell)



ZMM was selected by Bridgemont Community and Technical College and the West Virginia Community and Technical College System to provide professional architectural and engineering design services for the Renovation of Davis Hall in Montgomery. Davis Hall is a 77,215 SF classroom and laboratory facility that was constructed in 1970 for WVU-Tech. The exterior of the facility consists of architectural pre-cast concrete panels and a curtain wall system. The interior includes an open two story atrium, a large auditorium, and five levels of office and classroom space that is constructed of demountable partitions.

Prior to commencing the design effort, ZMM completed a thorough assessment of the facility. The assessment revealed significant life safety concerns that had not been previously identified, including the use of non-plenum rated plastic insulated wiring throughout the return air plenums, mechanical units located above ceilings in exit stairs, and a lack of adequate fresh air for building occupants. As part of this initial assessment, ZMM assisted in developing a scope of work for the current project, as well as a long range plan for future improvements to Davis Hall.

The scope of the current project includes life safety upgrades (replace non-plenum rated wiring, new fire alarm system), improvements to the building envelope (curtain wall replacement and re-roofing), hazardous material abatement, mechanical improvements (boiler and chiller replacement, outdoor air ventilation system replacement), and interior improvements (replace ceilings and lighting, upgrade furnishings).

# Southern WV Community & Technical College

## Applied Technology Building and Campus Planning



**LOCATION:**  
Williamson, WV

**SIZE:**  
22,000 SF

**COMPLETION:**  
2013

**COST:**  
\$5M

**CONTACT:**  
Rita Roberson, Director of  
Campus Operations  
1601 Armory Drive  
Williamson, WV 25661  
304.236.7648  
[ritar@southern.wvnet.edu](mailto:ritar@southern.wvnet.edu)

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

American School &  
University: *Outstanding  
Building Design*



The new Applied Technology Center is located on Southern WV CTC's Williamson Campus. The 22,000 SF college houses a virtual welding shop, machine shop, mechatronics shop, a mining support program, administrative space and student support spaces, as well as several allied health programs. The space is designed to maximize both flexibility and adaptability, and will reflect a modern, "high-tech" aesthetic while also blending into the overall campus.

The large area for lab spaces is enhanced by black brick and surrounded by classrooms and support spaces highlighted by a curved glass wall with metal panel accents. The entrance is crafted with smooth metal panels and adjacent to textured patterned black brick construction to resemble coal.

A wood trellis area sits on round concrete columns shading the glass walls of the Administration and acts as an area for student gatherings. The strong contrast between the metal/glass and the wood trellis works to strengthen the outside space.

The facility is the first step in the progression of a planned campus expansion that will ultimately include expanding the campus into the adjacent property. The school is currently working on a new campus master plan, with a focus on creating green space and improving pedestrian and vehicular circulation.





## Erma Byrd Center Public Higher Education Center

**LOCATION:**  
Beaver, WV

**SIZE:**  
33,000 SF

**COMPLETION:**  
August 2007

**COST:**  
\$7.5M

**CONTACT:**  
Rich Donovan  
Executive Director  
The Higher Education  
Foundation  
200 Main Street  
Beaver, WV 25801  
304.929.2010

**AWARDS:**  
2008 AIA Honor Award  
West Virginia Chapter  
*Excellence in Architecture*

American School &  
University: *Outstanding  
Building Design*



The Erma Byrd Center for Public Higher Education is the first building of its kind in the state. The 33,000 square foot center provides students the convenience of taking a variety of college classes offered by six different college and universities in a single location.

The new facility consists of standard classrooms, distance learning classrooms, a science lab, computer classrooms, a lecture hall, a multi-media library along with administrative office space for each college and university. Through technology, the building itself becomes an educational tool. Students are able to monitor the HVAC system and it's controls through web-based software thereby learning how the system works and how the climate and building design affect performance.

A wind turbine and solar panels on site assist in reducing the overall utility costs and allow students to see first-hand the benefits of alternative energy sources. This Higher Education facility sets a new standard for the learning environment and energy efficiency. The building is designed to maximize use of natural light and has sensors throughout that control the artificial light level by measuring the amount of light present in the space.

The high-tech facility is the first building on what will become a campus for public higher education. It's placement at the front of the site allows the building to serve as a beacon of what is to come.



# Approach and Methodology for Meeting Goals and Objectives

ZMM has extensive knowledge of the existing facilities of The WV Schools for the Deaf and the Blind, having recently completed the Comprehensive Educational Facilities Plan (CEFP) for the entire campus. ZMM conducted a multitude of meetings and extensive field investigations and reviews of all buildings and building systems on the campus, as a part of the CEFP process. ZMM has also worked with the campus administration and staff to complete a recent HVAC/roof replacement project and have a full understanding of the campus and their needs during the construction process.

As a full service design firm, ZMM employs all of the disciplines in-house to undertake the maintenance projects outlined in the request for expression of interest. If selected to provide services for the project, ZMM would set up teams under the direction of David E. Ferguson, AIA – Project Principal and John Dickinson, AIA – Project Principal, two professionals with considerable experience and a history of working closely with the West Virginia Schools for the Deaf and the Blind (WVSDb). The teams would include an architectural team led by Nate Spencer, AIA to undertake the architectural aspect to the restroom renovations and all ADA component updates. The engineering will be led by John Pruett, PE to undertake the mechanical and plumbing pieces to this project. Scott Casdorff, PE, our electrical engineer, will head up the electrical part of the equation. This approach will provide the WVSDb with a single, central point of contact for all of the design work, while simultaneously allowing all of the work to progress on time and within budget.

Renovation projects require a unique approach. The most significant challenge with a complex renovation project is clearly identifying all of the required needs, including code related items, and then verifying that the scope can be completed within the available budget. ZMM will ensure that this scope identification occurs by conducting a detailed investigation of the existing facility with a team of architects and engineers. ZMM would commence the project by meeting with your representatives of the WV Schools of the Deaf and the Blind and their team to discuss the building condition, scope, and vision for the project. The team would also review any historic documentation and existing drawings that exist of each facility.

Following the kick-off meeting, ZMM would conduct the detailed investigation of each facility with our team that would include (at a minimum) the project principal, an architect, structural engineer, electrical engineer and mechanical engineer. The investigation would include (but not be limited to) an investigation of:

- Life Safety and Egress (Coordinated with the State Fire Marshal)
- Existing ADA Conditions
- Existing Floor Plans
- Building Structural Systems
- Plumbing/Drainage Systems
- Electrical Service and Distribution
- Mechanical Systems

Based upon our extensive renovation experience, ZMM Architects and Engineers has developed a comprehensive assessment tool for building renovation projects, and we would employ our knowledge developed on other recent renovation projects to your benefit. ZMM also understands that the following issues specific to the campus need to be investigated to help fully develop/reconcile the scope and budget for the project:

- ADA Restrooms
- ADA Shower Rooms
- Renovation of existing facilities at Keller Hall, Seaton Dormitory and the Blue and Gold Cafeteria to accommodate newer and updated ADA facilities that meet all codes and standards.

Based upon the field investigation, ZMM will develop recommended solutions with a focus on durability and maintainability. Itemized cost estimates will also be developed for various options. The recommendations and estimates will then be reviewed with the WV Schools for the Deaf and the Blind to develop a strategy to implement the required scope of work. The result is an assessment that has been reviewed by all project stakeholders and all review agencies, ensuring that the scope of work and budget have been resolved prior to proceeding into the construction document and bidding phase.

Once the strategy is developed and agreed upon, ZMM will coordinate the plan with the authority having jurisdiction (WV State Fire Marshall's Office) regarding egress while the improvements are being made. Documentation of this coordination would be recorded to avoid any issues during the construction phase. ZMM would then commence with developing contract documents (bidding and construction documents) for the improvements.

ZMM commits to delivering both the initial assessment and final bid documents within the time frame set forth by the project criteria. Our ability to provide all services in-house allows us optimum control of the design schedule, and has led to a history of successful performance on projects with challenging schedules.

ZMM will continue to provide services with the same team during the bidding phase. Our team will attend the pre-bid meeting, and assist in answering all bid questions.

The efforts of ZMM's architects and engineers will continue through the construction phase until the final completion of the project. ZMM continues to focus on quality throughout the construction phase by utilizing a dedicated Construction Administrator to coordinate the design team's effort throughout the construction process. The Architects and Engineers on the design team will also provide construction phase services including observation, responding to contractor questions, review of project submittals, attend progress meetings, make interim site visits, and provide substantial and final completion inspections. This approach will improve the communication and coordination between ZMM, the WV Schools for the Deaf and the Blind and the contractor, and will ultimately lead to an improved construction phase. ZMM also recommends an 11 month inspection to ensure the integrity of the completed improvements.



ZMM has extensive knowledge of the existing facilities of The WV Schools for the Deaf and the Blind, having recently completed the Comprehensive Educational Facilities Plan (CEFP) for the entire facility. ZMM conducted meetings and extensive field investigations and reviews of all buildings and building systems on the campus, as a part of the CEFP process. ZMM field measured all buildings and has all current floor plans in CAD and CEFP records on file.

ZMM will keep accurate records during construction and also require the contractor to note any changes during the daily construction process. After the construction is complete ZMM will meet with the Contractor to review any final modifications and then complete any changes into a final set of documents for the Owner to keep as well as requiring the Contractor to furnish the Owner a set of Operational manuals with contacts and warranty information.