



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 1

List View

General Information | Contact | Default Values | Discount | Document Information | Clarification Request

Procurement Folder: 1050094

Procurement Type: Central Contract - Fixed Amt

Vendor ID:

Legal Name: ZDS LIMITED LIABILITY COMPANY

Alias/DBA:

Total Bid: \$0.00

Response Date:

Response Time:

Responded By User ID:

First Name:

Last Name:

Email:

Phone:

SO Doc Code: CEOI

SO Dept: 0403

SO Doc ID: DBS2200000001

Published Date: 6/24/22

Close Date: 7/12/22

Close Time: 13:30

Status: Closed

Solicitation Description:

Total of Header Attachments: 1

Total of All Attachments: 1



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

State of West Virginia
Solicitation Response

Proc Folder: 1050094
Solicitation Description: EOI: Safety, Security, and Electrical Upgrades at WVSD B
Proc Type: Central Contract - Fixed Amt

Solicitation Closes	Solicitation Response	Version
2022-07-12 13:30	SR 0403 ESR07122200000000167	1

VENDOR
000000208495
ZDS LIMITED LIABILITY COMPANY

Solicitation Number: CEOI 0403 DBS2200000001
Total Bid: 0
Response Date: 2022-07-12
Response Time: 09:02:47
Comments:

FOR INFORMATION CONTACT THE BUYER

Joseph E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor Signature X	FEIN#	DATE
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All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Safety, Security, and Electrical Upgrades at WVSDb				0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

Commodity Line Comments: TBD once project awarded.

Extended Description:

Safety, Security, and Electrical Upgrades at WVSDb

STATE OF WEST VIRGINIA

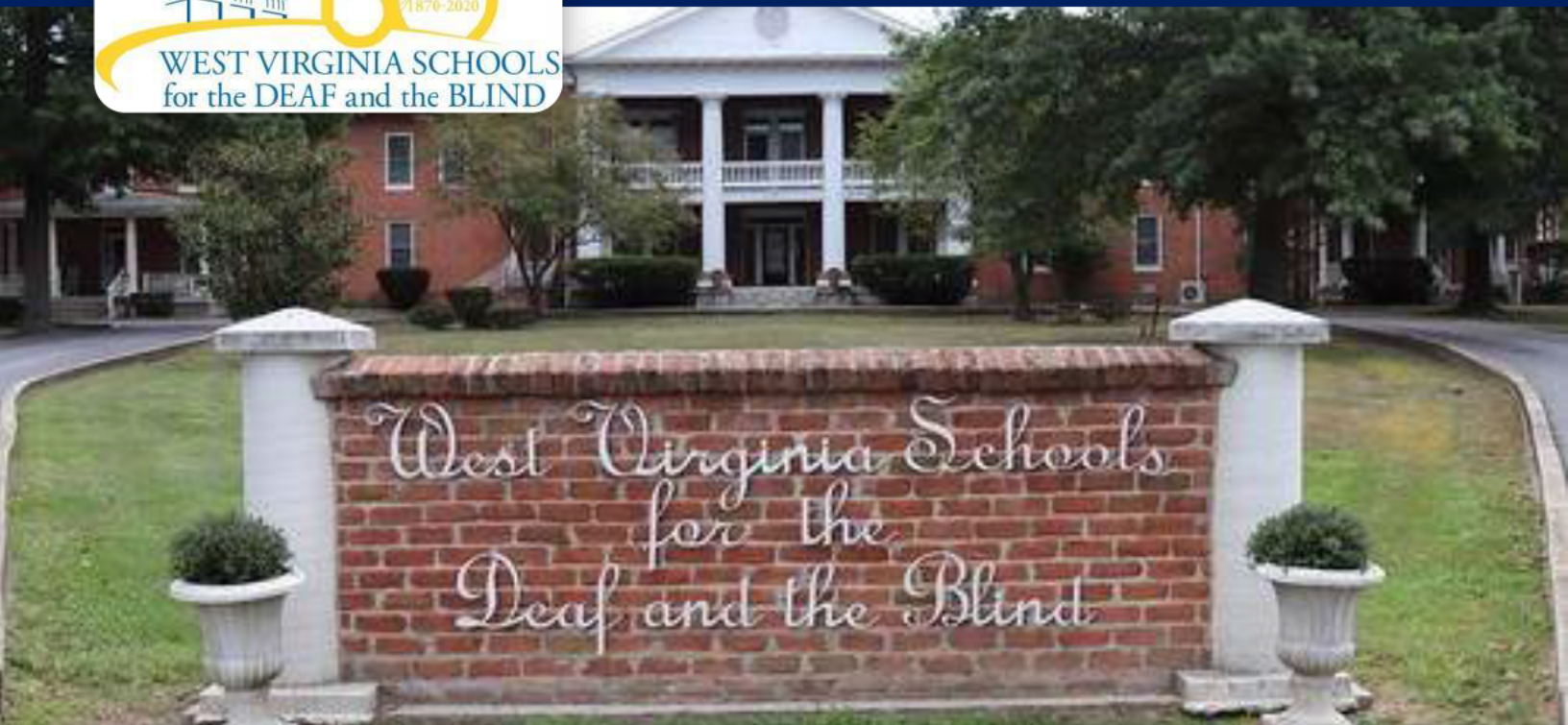
West Virginia Schools for the Deaf & Blind

Safety, Security, and Electrical Upgrades

CEOI 0403 DBS2200000001

Expression of Interest to Provide A/E Design Services

July 12, 2022



28⁺
Years
of Service

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State of WV Centralized Expression of Interest

State of WV Purchasing Affidavit

Designated Contact & Certification Form



Executive Summary Letter Project Goals & Objectives



135 Corporate Center Drive / Suite 532 / Scott Depot, WV 25560
(304) 755-0075 / www.ZDSDesign.com

28⁺
Years
of Service

MECHANICAL • ELECTRICAL • INDOOR AIR QUALITY • ENERGY • COMMISSIONING • FORENSIC

July 12, 2022

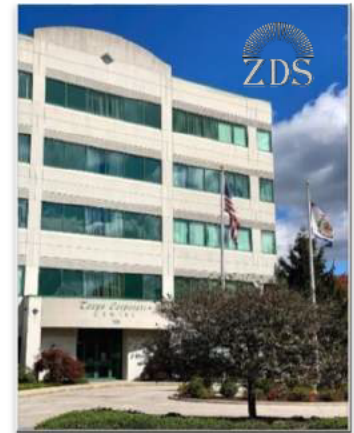


WV Department of Administration
Purchasing Division
2019 Washington Street, East
Charleston, WV 25305

Please accept our Expression of Interest to provide Professional Architectural/Engineering Design Services for the **WV Schools for the Deaf and the Blind for various Safety, Security, and Electrical Upgrades.**

ZDS Design/Consulting Services was founded in 1994 and recently celebrated its 28th anniversary; located at 135 Corporate Center Drive, Suite 532, Scott Depot, WV 25560. We also have Professional Engineers working out of **Bridgeport, WV**, and **Morgantown WV** to support this project. The project will be assigned to **ZDS'** principal-in-charge of planning/design who will follow the project from inception through design and has full authority to execute a binding contract on behalf of **ZDS**:

Todd A. Zachwieja, PE, CEM, LEED AP – Principal and CEO of ZDS Design/Consulting Services; Telephone: 304-755-0075; Fax: 304-755-0076; Mobile: 304-545-4550; Email: Todd.Zachwieja@ZDSDesign.com; Website: www.ZDSDesign.com.



ZDS founding members have over six decades of MEP engineering experience in West Virginia with a local understanding of your needs. ***Our reputation for solving challenging projects is nationally known and we have worked on projects in 24 different states from the federal building in Hawaii to LEED Gold Arboretum facility for Harvard University, but WV is our home.*** We have extensive renovation experience, including phasing construction, to reduce potential disruptions. Our approach is different than the traditional role; **we have actual operational and design experience.** We design and can commission the Mechanical/Electrical systems and, by doing so, we fine-tune them to actual conditions and assist the Owner's personnel after occupancy to improve comfort, provide training and reduce operating costs.

We believe our company is the right size to provide the level of service necessary and small enough to listen and care about your needs. **ZDS** is very active in keeping current with all applicable Codes and specifically with ASHRAE and energy efficiency standards. **ZDS** team members have held or currently hold officer positions in the West Virginia ASHRAE Chapter including Todd Zachwieja, Ted Zachwieja, and David Cotton serving as President. We pride ourselves on being viewed as an extension of the client's staff and successfully incorporating pertinent information about their facility into any proposed solution.

ZDS engineering designs received the EPA's Energy Star® Certification including *renovations for Elkins Middle School*, the only Energy Star Certified school in Randolph County. These buildings perform in the top 25 percent of similar facilities nationwide for energy efficiency while meeting stringent ASHRAE standards. We met the facility requirements while providing very energy-efficient HVAC, lighting, and power systems.



ZDS will provide comprehensive MEP engineering support for the proposed *WV Schools for the Deaf and the Blind for various Safety, Security, and Electrical Upgrades*. We are known as the best for renovations including successful renovation projects like yours with the Kanawha County Courthouse & Judicial Building, Tyler County Courthouse Renovations, the historical Robinson Grande Performing Arts Center, State of West Virginia Capitol Complex (**fire protection/sprinkler system for the Culture Center**), Wayne County Courthouse, and many others. We have the personnel and experience to provide the necessary services and, realizing the similarity of our mission and the desire to serve West Virginia clients, we will be honored to work with you.

ZDS has teamed with the oldest WV Architectural firm for their services as necessary for the project. **WYK Associates, Inc.**, 205 Washington Avenue, Clarksburg, WV 26301 with James B. Swiger, AIA, NCARB, LEED BD+C, President, Principal-in-Charge, and his staff as our Architectural consultant. **WYK Associates, Inc.**, founded in 1900 is an award-winning historical renovation architectural firm with strong ties working with the State Historic Preservation Office.



ZDS pioneered **3D Scan-to-BIM** over a decade ago to address the challenges of renovation projects. 3D Laser Scanning helps reduce the level of unknowns on your project by collecting highly accurate “built conditions” that can then be used to make better decisions earlier in the process. Combining 3D Laser Scanning on your renovation project reduces change orders, helps to mitigate overall project risks, and enhances collaborative efforts. Please visit our website <https://zdsdesign.com/3d-laser-scan/> for examples. This service would allow you to visit all accessible locations of your building from your computer and visually see what's there for coordinating with others. We used this on a hospital where the original construction drawings were off by over 8 feet dramatically impacting our design and the Client had this to say about our 3D Scanning services:

“With the 3D laser scanning service, ZDS saved us countless hours communicating to all project team members, even to those who work or live far away. Also, we now have an accurate record of the existing conditions that DHHR can easily access now and into the future.”

ZDS founder Todd Zachwieja has specialized in energy conservation design in hundreds of millions of dollars in renovations, new construction, and Performance Contracting heavily involving MEP systems including obtaining grants for many projects and saving facility owners millions annually with our designs often saving over 50% in operating costs. Some projects include the new “Net Zero” Tyler County 911 Center where the amount of energy produced is anticipated to exceed the amount of energy used by the facility and \$45 million in phased renovation construction costs at William R. Sharpe Jr. Hospital that allowed the hospital to remain in operation throughout the construction process. We have also worked on many historical buildings meeting the needs of WV SHPO.

Project Goals, Objectives & Approach

GOAL/OBJECTIVE 1: The agency intends to design and install a new Fire Suppression System according to the current code in the Physical Education building (25,000 Square Feet and Built in 1951). There is currently no fire suppression system. The vendor will be required to coordinate all design and construction with the WV State Fire Marshal.

GOAL/OBJECTIVE 2: The agency intends to design and replace the sprinkler heads in the Sevigny Building (53,000 Square Feet and Built in 1971), Keller Hall (34,000 Square Feet and Built in 1972), Brannon Building (27,000 Square Feet and Built in 1962) and add heads as required to meet current code in these indicated buildings. The vendor will be required to coordinate all design and construction with the WV State Fire Marshal.

RESPONSE – 1 and 2: ZDS has extensive experience with fire protection systems and an excellent relationship with the office of the West Virginia State Fire Marshal (WVSFM). We have designed, specified, and performed Construction Administration services for new and existing system retrofits in many educational, commercial, and governmental facilities. The Physical Education building will require detailed drawings including dimensional data, and identification of the existing construction materials to determine the extent of the new fire protection/sprinkler system. We understand that the buildings listed for modifications will require field investigation of the existing sprinkler systems, checking for Code compliance, and coordination with the successful contractor throughout the construction process.

GOAL/OBJECTIVE 3: The agency intends to design and upgrade the elevators with Emergency Recalls and other required changes to meet current codes in the Sevigny Building, Keller Hall, Brannon Building, and Physical Education Building. The vendor will be required to coordinate all design and construction with the WV State Fire Marshal.

RESPONSE - 3: Through coordination with the WVSFM and the combined elevator experience of WYK and ZDS, we will strive to work closely with the Owner to achieve the successful planning, design, and installation of elevator upgrades at the listed buildings.

GOAL/OBJECTIVE 4: The agency intends to design and replace the Fire Alarm System in the Physical Education Building according to current codes. The vendor will be required to coordinate all design and construction with the WV State Fire Marshal.

RESPONSE - 4: We have designed and coordinated Code compliant installations of Fire Alarm systems for both new, and upgrades to existing systems, in hundreds of educational facilities throughout the state and regionally.

GOAL/OBJECTIVE 5: The agency intends to design and install a campus security camera system to augment or replace the current camera system.

RESPONSE - 5: Our Team has worked with a multitude of Clients on installations of security systems at facilities with varying types of occupancies including a recently completed project for the Tyler County 911 Center. We have worked with several reputable suppliers/installers of cameras, and other, security systems in the past and would utilize their professional experiences to assist with the campus security system.

GOAL/OBJECTIVE 6: The agency intends to design and upgrade the ceiling lights and grid system in the Sevigny Building Auditorium with modern LED fixtures and grid system. The existing electrical system in the auditorium shall be diagnosed and upgraded as needed to accommodate the new design.

RESPONSE - 6: ZDS has over three (3) decades of energy efficiency experience and our personnel have been at the forefront of leading-edge technology in lighting design. We are confident that we can provide state-of-the-art LED lighting for the Sevigny Building Auditorium to meet your wants and needs. We will review the existing electrical system to determine the load capacity as well as compliance with current Codes. Proper diagnosis of the existing electrical system may require the services of an electrical contractor to determine the direction for necessary upgrades.

The Team has years of experience and the best expertise to provide the services to fulfill your specific project's needs. Our Team's professional services efforts have been extremely effective in the past by acting on our clients' behalf to help bridge the new technologies and management methods into actual operating practices that have saved our clients substantial funds in construction and operating costs. We pride ourselves on being viewed as an extension to the client's staff and successfully incorporating pertinent information about their facility into any proposed solution. Please feel free to contact any of our references about our work. We are ready and willing to start on your project and feel confident that our specialties will provide you with the best expertise for economical solutions in your facility. We look forward to discussing our qualifications. If there are any questions, please do not hesitate to call and we look forward to the opportunity to share more about our services.

Sincerely,



Todd A. Zachwieja, P.E., CEM, LEED AP
Principal, Chief Executive Officer



Firm Overviews

COMPANY OVERVIEW



ABOUT **ZDS** DESIGN/CONSULTING SERVICES

In 1983, Todd A. Zachwieja founded ZECO Consultants. In 1994 **ZDS** Limited Liability Company was incorporated in West Virginia using dba **ZDS** Design/Consulting Services, and was founded to provide design and consulting services.

Each new project is assigned to a principal in charge who will follow the project from inception through commissioning. **ZDS** assigns the production staff according to the nature of the project and the work force necessary to meet the schedule. The principal in charge of that project determines if consultants are needed and coordinates all areas. After bidding, a principal of **ZDS** coordinates visits to the job site regularly, all the way through the post-warranty inspection. **ZDS** believes in the team approach when providing engineering design and consulting services. We start with our client as the number one member on our team. We listen to the needs and concerns of our client and that becomes the basis for our design.

COMPANY LEGAL NAME

ZDS Limited Liability; Company dba **ZDS** Design/Consulting Services

LOCATION OF INCORPORATION West Virginia

FOUNDERS

Todd A. Zachwieja, P.E., C.E.O.

Lori L. Zachwieja, C.P.A., C.F.O.

Daniel H. Kim, Ph.D.

FIRM LOCATION

135 Corporate Center Drive, Suite 532
Scott Depot, WV 25560

EMPLOYEES

ZDS currently employs design professionals covering all aspects of our services.



CLIENTS & EXPERIENCE

- ◆ Kanawha County Schools: (County-Wide)
- ◆ Calhoun County Schools
- ◆ Clay County Schools
- ◆ Grant County Schools
- ◆ Greenbrier County Schools: 8 Projects
- ◆ Hardy County Schools
- ◆ Harrison County Schools
- ◆ Jackson County Schools
- ◆ Lewis County Schools
- ◆ Logan County Schools
- ◆ Marion County Schools
- ◆ McDowell Co Schools: 16 Projects
- ◆ Mercer County Schools: 12 Projects
- ◆ Mingo County Schools
- ◆ Monroe County Schools
- ◆ Ohio County Schools
- ◆ Pendleton County Schools
- ◆ Pleasants County Schools
- ◆ Pocahontas County Schools
- ◆ Putnam County Schools
- ◆ Raleigh County Schools: 37 Projects
- ◆ Randolph County Schools: 11 Projects
- ◆ Ritchie County Schools: 6 Projects
- ◆ Summers County Schools
- ◆ Upshur County Schools
- ◆ Taylor County Schools
- ◆ Tucker County Schools: 17 Projects
- ◆ Tyler County Schools
- ◆ Webster County Schools: 20 Projects
- ◆ Wirt County Schools
- ◆ Wyoming County Schools: 2 Schools
- ◆ State of Maryland,
Allegany County: 4 Schools
- ◆ State of Pennsylvania: 8 Schools

ZDS provides comprehensive design services. We have experience and specialties in indoor air quality, energy management and commissioning, along with traditional mechanical and electrical design experience dating back as far as 1958. We offer a complete package. **ZDS** works with all levels of the client's staff: the building owner, budget supervisor, operating and maintenance staff and others impacted by the project. We recognize that the maintenance and operating staff live with the design long after the project's completion. We listen to and work with those who will continue to operate and maintain the equipment. We find that proper communication benefits the client throughout the design process and beyond.

The **ZDS** design team provides a total system evaluation for cost-effective selection, installation, and ease of maintenance for both new systems and retrofit of in-place systems. Design begins with our client. Our staff meets with our client to review their concerns, budgets and schedules. The **ZDS** design team reviews the entire picture, and ends with "A Total Design."

The **ZDS** staff has the expertise with codes and standards. We have extensive experience in conducting engineering code surveys of existing facilities. Our staff has excellent working relationships with the West Virginia Fire Marshal's Office, West Virginia Department of Education and the West Virginia School Building Authority. In addition to comprehensive Engineering services from an experienced design team, another major consideration in the selection of your engineer and design staff should be their track record.

ZDS' organization has an unbeatable, long running, and well-known track record for meeting our clients' needs, on time and within budget, with outstanding quality. **ZDS** views these characteristics as the foundation of Quality. We look forward to the opportunity to discuss our ideas with you and assist you by providing solutions for your needs with a full range of services from Planning to Commissioning.

INDOOR AIR QUALITY SERVICES

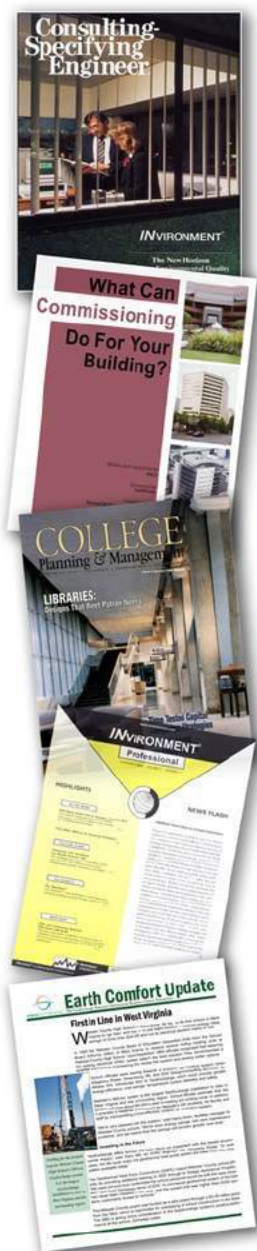
ZDS provides consulting engineering services for the indoor air quality (IAQ) environment. These services include: strategic planning for renovation and new construction projects; technical research and writing; specialized applications software development; corporate and professional training programs; publications support and fulfillment; and site-specific engineering and scientific consultation. Todd Zachwieja, **ZDS** Principal, is contributing editor for the following IAQ publications:

- Technical Review Panel for the publication of the *INvironment™ Handbook of Building Management and Indoor Air Quality*, by Chelsea Group and published for Powers Educational Services
- Technical Review Panel for the quarterly publication of the *INvironment™ Newsletter*, by Chelsea Group for Powers Educational Services
- *Ventilation for a Quality Dining Experience: A Technical Bulletin for Restaurant Owners and Managers*, released in January 1993
- *The New Horizon: Indoor Environmental Quality*, published as a supplement to an issue of *Consulting-Specifying Engineer* magazine, a trade magazine distributed to roughly 50,000 engineers
- Editorial Advisory Board member reviewing the articles of the monthly publication *INvironment™ Professional*
- Editorial Advisory Board member of *POWER PRESCRIPTIONS™ Indoor Air Quality Publication* by Electric Power Research Institute

ZDS provides Indoor Air Quality (IAQ) services for major corporations, government organizations and property owners to resolve their specific facility problems:

- Resolve “sick building syndrome”
- Identify solutions to building-related illnesses due to extensive biological contamination
- Develop solutions for HVAC systems, temperature controls, equipment, operating and maintenance practices for indoor air quality
- Commission new and renovated facilities to minimize or eliminate IAQ issues before problems arise
- Develop and establish master plans as well as conduct training seminars for IAQ of schools and commercial buildings

As one of the nation’s leaders in Indoor Air Quality (IAQ), **ZDS** provides sophisticated technical expertise that enables our client to be proactive in solving and preventing indoor environmental problems.

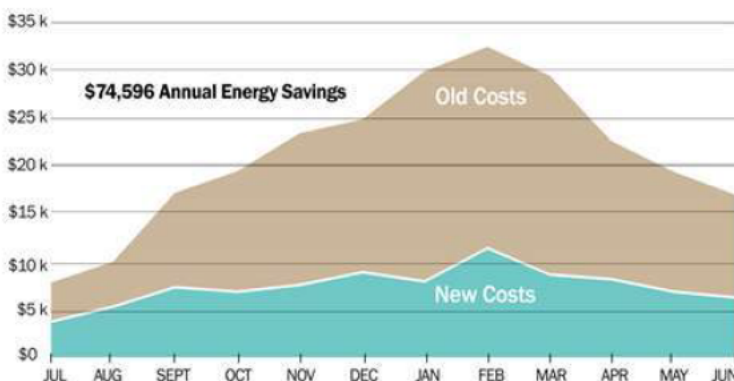


At **ZDS**, our engineering staff integrates energy efficiency into each project design to provide you, our client, with the added value that you expect and deserve. The

ZDS team approach represents a tremendous amount of experience in designing energy efficient facilities. **ZDS** offers a comprehensive range of energy management services including:

- Providing detailed analysis of facilities
- Recommending sound and proven energy saving solutions
- Implementing energy management improvements
- Determining, quantifying and assisting in securing available Utility and Government grants

The **ZDS** team members take pride in the quality of their projects and have been responsible for designing and implementing numerous energy management programs. These programs are providing significant energy improvements and include optimizing, central utility plant equipment, control systems, air handling systems, lighting systems, and other energy consuming equipment.



Recent projects include:

- Interconnecting boilers and chiller plant systems
- Designing Geothermal HVAC systems
- Optimizing HVAC equipment and operating sequences, including upgrades to variable speed operation
- Installing Direct Digital Control (DDC) Energy Management Systems
- Replacing inefficient lighting equipment with energy efficient systems
- Modifying air handling equipment from 100% outside air to return air operation
- Implementing heat recovery units into HVAC equipment
- Improving laundry, kitchen and other process application efficiencies



In addition to the energy management projects outlined above, the **ZDS** team members have extensive experience in identifying and implementing energy efficient operating and maintenance measures. These are typically low cost or no cost measures that include:

- Inspecting, calibrating temperature controls and adjusting outdoor air dampers
- Commissioning economizer cycle operation
- Testing steam traps and pressure relief equipment operation
- Enabling heating and cooling equipment only when required

ABOVE: ZDS designed and implemented the region's first and largest commercial geothermal system saving Webster County High School over \$74,596 in energy savings.

The **ZDS** team is trained and experienced in advising you of program options to incorporate energy efficiency and operational savings features into the design of your new construction and renovation projects. At **ZDS**, we view our role as helping you to define your own energy efficiency needs and goals through identifying energy savings options and providing supporting financial information. We then help you fit your energy efficiency needs and goals into a workable budget and schedule, and then design a program to fill those needs.

Sustainable "Green Building" design, including LEED certification, recognizes the importance of commissioning. The design and construction industry have had start-up problems when a facility is occupied and construction deficiencies were not discovered until the contractor's traditional one-year warranty period expired. The mechanical and electrical systems have continued to become more complex with sophisticated control systems and equipment, and a mountainous amount of changing technology. If not properly addressed, building owners could face numerous operational problems from "Sick Building Syndrome," excessive energy costs, and uncomfortable indoor environments.

Commissioning is the missing link between design and implementation. Prior to joining **ZDS**, Todd Zachwieja established commissioning services for one of the nation's largest energy service companies. He is also a LEED Accredited Professional. Many utility companies and building owners now require commissioning for new or renovated facilities in order to maximize the use of their investments in their facilities and to obtain LEED certification.

ZDS offers commissioning services for their clients, including meeting LEED enhanced commissioning requirements. These services include strategic planning and operations assistance for renovation and new construction projects. Commissioning services consist of construction document review, equipment performance testing, documentation of design criteria, value engineering, operational fine tuning, coordination of professional operations training programs and site-specific engineer-ing consultation. Our project team has the unique experience of in-depth design knowledge and hands-on operations knowledge that fills in the gap between traditional design services and the building owner's

The commissioning process offers the following benefits:

- Improved comfort, serviceability and owner understanding of systems and design intent
- Added technical support for the owner and being proactive in preventing new problems
- Reduced maintenance and decreased expenses related to operating deficiencies
- Early identification and resolution of system discrepancies while designers and contractors are still under contract and on the job
- Verification of system performance while meeting financial restraints

The National Conference on Building Commissioning invited Todd Zachwieja to speak and he jointly presented a paper with the Director of Maintenance of Charleston Area Medical Center's Memorial Division. The Tampa, Florida Conference involved experts nationwide.

Since 1958, the **ZDS** design staff has provided millions of dollars of engineering design services on a variety of project types. The **ZDS** design team will provide comprehensive services utilizing experienced staff through planning, cost estimating, engineering, coordination of bidding, regular site visitation during construction and specifications for equipment.



You, our client, will greatly benefit from a single point of responsibility for every need your project may have.

Company Overview



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity · Project Philosophy · Project Management

www.wykarchitects.com



Our Identity

Who we are

WYK Associates, Inc. is a full service architectural and planning firm serving a wide variety of commercial, religious, educational, civic and industrial clientele.

WYK Associates, Inc.'s legacy began in 1900 by Edward J. Wood. Our archives are filled with a century's worth of historic work. From this, many predecessors who have carried the torch of the firm through the last century.

Wood's grandfather's firm had roots in North Central West Virginia dating back to the early twentieth century. William Yoke, Jr. and Howard Kelley partnered with Mr. Wood in 1974 to form WYK Associates, Inc.

Mr. James Swiger joined the firm in 2005 and became a principal and vice president in 2008. In 2012, Mr. James Swiger assumed sole ownership of WYK Associates, Inc.

Project Philosophy

Our process at work

COMMUNICATION & TEAMWORK are our guide words for each project. Our client's requirements for quality, service and value are the driving force behind each decision.

Through collaboration with engineering consultants we address the needs and schedule requirements of each client.

We provide thorough planning in all areas of each project to fit the individual requirements for a positive impact on both the natural and built environments. Energy conservation and product safety are very important concerns.

Project Management

How we create excellence

We carefully evaluate the client's program, design concerns, budget, funding sources, and other available data to assure a clear understanding of each project.

We incorporate input from our client and consultants to establish the budget and schedule. These facets are updated during each stage of project development to ensure our client's parameters are met.

WYK's principals engage and manage the entire project team, from concept through occupancy. WYK Associates, Inc. has an outstanding reputation for providing construction administration services along with maintaining an excellent rapport with contractors.

“ Our building stands as a tribute to you and your firm for a job well done. ”

-Charles A. Feathers, Chief Bridgeport Fire Department, Retired

Company Overview



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity · Project Philosophy · Project Management

Architecture

Contact Information

WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

304-624-6326

304-677-3373 Cell

304-623-9858 Fax

www.wykarchitects.com

Key Project Staff

James B. Swiger
AIA, NCARB, LEED AP BD+C, CHC
President / Principal-in-Charge
james@wykarchitects.com

Stephen M. Kelley
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Senior Project Manager
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Canon T. Fancher
Associate AIA, LEED Green Associate
Designer / BIM Coordinator
cannon@wykarchitects.com

Irene Malfregeot
MBA, Allied AIA
Director of Finance & Client Relations
irene@wykarchitects.com

Lisa A. Kuhn
Construction Administration Coordinator
lisa.k@wykarchitects.com

Memberships



Summary

Our firm's legacy began in 1900, then named Edward J. Wood Architect, WYK Associates, Inc. has been located in Clarksburg for 122 years. Through innovative and thoughtful responses to the unique issues of each project, our goal is to create places that fit the needs and desires of those who use them.

Our team approach integrates the collaborative strengths of each member to produce a solution of balance between design quality, schedule and budget. We have always considered sustainability, the built environment, and quality of life long before the public began to focus on its benefits. We take seriously the responsibility of designs and solutions to be cost effective and operate efficiently throughout the building's lifecycle.

Sample Project Experience:

UHC - Eye Center
Bridgeport, WV

Robinson Grand PAC
Clarksburg, WV

Bridgeport Public Safety Building
Bridgeport, WV

Tyler County Courthouse
Middlebourne, WV

UHC - Weston
Weston, WV

Bridgeport Public Library
Children's Area
Bridgeport, WV

Immaculate Conception Parish
Center, Clarksburg, WV

Jackson Square
Clarksburg, WV

Pocahontas County Courthouse
Marlinton, WV



West Virginia Folklife Center



United Hospital Center Breezeway



Immaculate Conception Parish Center

Company Overview

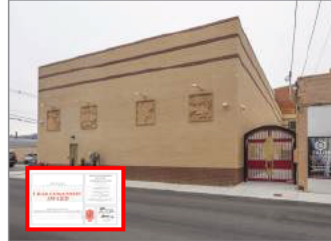
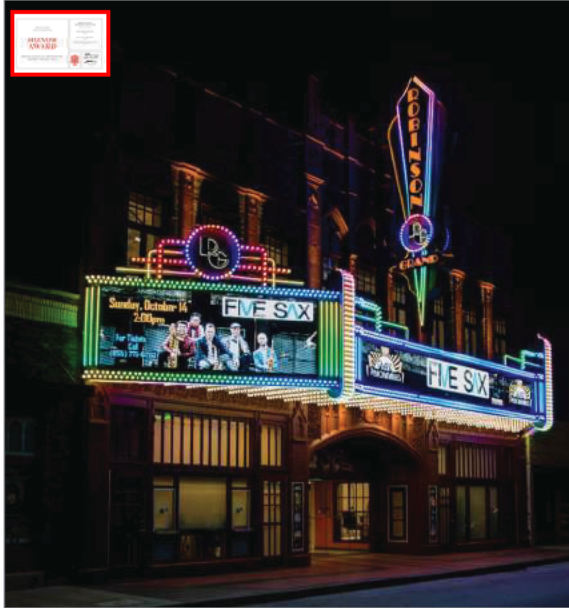


WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Company Information

Identity · Project Philosophy · Project Management

Awards



2019 WV-AIA Honor Award for Design Excellence in Architecture - Historic Preservation

2019 WV-AIA Craftsmanship Award for Excellence in Architectural Detail and Craftsmanship

WV AIA AWARDS

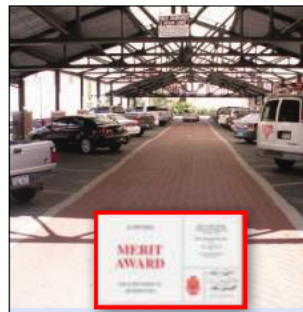
ACHIEVEMENT IN ARCHITECTURAL DESIGN

Robinson Grand Performing Arts Center

Clarksburg, West Virginia

Size: 45,000 S.F.

This project was awarded full EPACT Tax credits for surpassing the ASHRAE 2007 Standards for HVAC, Interior Lighting and Building Envelope Exterior Improvements. It was also awarded 2018 Excellence in Construction Award from the Associated Builder and Contractors, Inc.



2013 WV-AIA Merit Award for Design Excellence

West Pike Street Parking Facility

Clarksburg, West Virginia

Size: 57,000 S.F.

The facility's design compliments all the adjacent properties, both historic and modern. A variety of outdoor activities are easily held here, enhancing the city's economy and livability. Designed by Associated Architectural Consultants, PLLC, which is a combination of Ralph Pedersen Architect & WYK Associates, Inc.



Shinnston Community Center

Shinnston, West Virginia

Size: 17,000 S.F.

The facility will serve as a performing arts center, a look out for downtown events such as parades, etc. A much needed large banquet hall, accommodating 350 people, will provide the city with a gathering space for meetings and community organization. There is also a room solely dedicated to the Shinnston Senior Citizens, and another additional meeting room. The upper level of the building serves as the city administration offices and Council Chambers.

Company Overview



WYK ASSOCIATES, INC.
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Awards



2013 WV-AIA Merit Award for Design Excellence and Sustainable Design

Information Manufacturing Corporation (I.M.C.)

Cowen, West Virginia

Size: 18,000 S.F.

With Sponsorship from Senator Robert C. Byrd, the Webster County Development Authority commissioned this "state of the art" facility to house Information Manufacturing Corporation's regional operations. The important notion of sustainability is addressed through use of recycled steel, regional materials, and an innovative geothermal heat pump heating and cooling system.



2013 WV-AIA Merit Award for Design Excellence



West Union Bank- Newpointe

Clarksburg, West Virginia

Size: 9,000 S.F.

The design uses a combination of glass curtain wall with brick and monumental masonry units to present a very contemporary image. Because of the building orientation, the glass elevations require the use of solar glazing and a brise soleil system to reduce heat gain and glare in the offices.



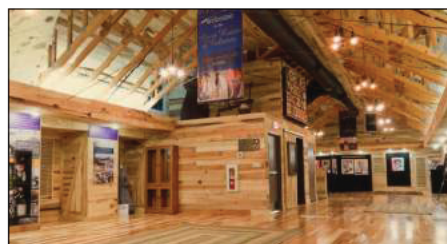
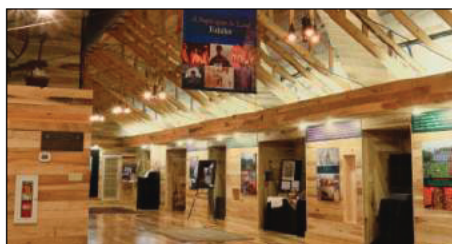
Fairmont State University -

Frank & Jane Gabor Folklife Center

Fairmont, West Virginia

Size: 6,900 S.F.

The Folklife Center was constructed in 1903 by Michael Kennedy and is the last remaining vestige of the Kennedy's dairy farm. The building had been seriously compromised by years of neglect and fire damage. Due to the building's history and notable residents, it was placed on the National Register of Historic Places in 2006.



FSU-Interior Design

Fairmont, West Virginia

After developing an architectural program for the Folklife Program, WYK Associates, Inc. decided to remove a floor from the existing structure and create a first floor classroom area, and a second floor "Great Room" which would restore the open structure of the barn and provide both exhibit and multi-use space.



Description of Project Experience

Additional Project Experience Brochures

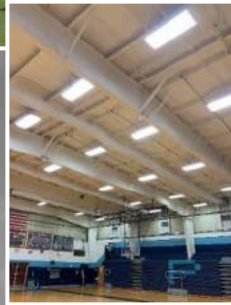
Pendleton County Schools

North Fork Elementary School

Pendleton County Middle/High School

HVAC & Roof Renovations

Pendleton  County Schools



ZDS and **WYK** team provided professional architectural and engineering design, bidding, construction administration, and commissioning services for HVAC and roof upgrades at the Pendleton County Middle/High School and North Fork Elementary School to meet Indoor Air Quality and today's energy codes. The initial step in the project was to provide engineering investigations of existing conditions where **ZDS** and **WYK** team performed 3D Scan-to-BIM for reliable and accurate 3D capture of "built" conditions to use in design, bidding and construction. The 3D scans were also valuable to communicate remotely between the Owner and Contractor. The work included, but not limited to, twenty (20) new Roof Top Units, VAV Terminal Units, VRF cassette systems, Condensing Units, DOAS systems, indoor/outdoor Vertical Air Handling Units, Energy Recovery Ventilators, general exhaust fans, Kitchen Make Up Air Unit and hood exhaust. Bi-polar ionization was incorporated into the HVAC systems. The roofs were upgraded to meet today's Energy Codes. The Project also required new and modified HVAC ductwork modifications and gas piping for the HVAC systems, comprehensive DDC Buildings' controls upgrades, new electrical service at the Elementary school and other electrical upgrades associated with the new equipment. The energy efficient design will provide excellent long-term operating savings to the Pendleton County Schools. A new Fire Alarm system was provided for the Elementary school and the adjacent Harold Michaels Building.

The Elementary school and the MS/HS also will have new roofs when the Project is completed.

The schools remained occupied, and phasing of the Work was critical throughout the Project which is on track to be completed on schedule.

Project Costs: \$8,362,722 SBA funds, \$200,000 Local funds

School Size: 138,560 square feet

Contacts: (304) 358-2207

Charles Hedrick, Superintendent: cfhedric@k12.wv.us

J.P. Mowery, Business Manager: jmowery@k12.wv.us

Tim Johnson, Director of Facilities: tajohnson@k12.wv.us



Design/Consulting Services

Kanawha County Schools

Riverside High School HVAC/Lighting Renovations



Riverside High School, built in 1997, academic wing's HVAC system consisted of four large Dual Duct custom Rooftop units and gas fired packaged DX rooftop units to serve the other areas of the school. The Dual Duct HVAC equipment was unique to the County and the only school to have this HVAC system type challenging the maintenance department. The school went through a Performance Contracting Program around 2011 when original pneumatic controls were retrofitted along with other upgrades; however, the utility usage for this school was still nearly twice the national average.

ZDS goal for the design of HVAC, roof replacement and Lighting renovations was to reduce the overall energy usage by 50% while improving comfort and Indoor Air Quality. Many HVAC systems were analyzed, and energy modeled resulting in selecting a closed loop geothermal HVAC system using indoor high-efficient heat pumps and eliminating the Dual Duct units and replacing them with VAV Dedicated Outside Air Units (DOAS). Bi-polar ionization was incorporated into the HVAC systems. Reused the existing ductwork from the dual duct system and added VAV boxes with Demand Control Ventilation. Other HVAC systems included both water source heat pumps and packaged VAV Rooftop Units. Project includes replacing and retrofitting the existing lighting systems with high efficiency LED sources. The locker areas in the school are being converted from heating/ventilation only to full HVAC. The project also includes roof replacement concurrent with other renovations.

ZDS provided the design and assisted with the bidding and Construction Administration process. The project is under construction. Work designed/phased so construction could occur while school in use. In addition to energy savings the systems will provide reduced long-term operating and maintenance costs.

High Performance Design using ASHRAE Advance Energy Design Guides projected to **use over 50% less energy for HVAC/Lighting systems**

Incorporates Air Cleaning Technology in HVAC System

Construction Costs: \$17,400,000

School Size: 189,318 square feet

Contact: Chuck Smith, Executive Director: (304) 348-6148



Design/Consulting Services



Kanawha County Schools

Ben Franklin Career Center HVAC/Roof Renovations



ZDS and WYK team conducted an extensive study and performed 3D Scan-to-BIM of the facility that was utilized to develop comprehensive existing conditions and to assist KCS with procuring SBA funds. The work was done in two (2) phases for replacement of the aging HVAC equipment, ductwork and piping and includes electrical upgrades to accommodate the new equipment, new lighting throughout, roof replacement and new exterior overhead doors for the shops. **ZDS** provided, Design, Bidding, Construction Administration and **Commissioning services**. Work designed and phased so construction could occur while school in use.



Project Costs: \$9,651,722 with SBA Funding \$6,992,759
School Size: 78,050 square feet
Contact: Chuck Smith, Executive Director: (304) 348-6148
Charles Wilson, AIA, (Retired): (304) 533-6149



ZDS and WYK team included Faculty/Staff specific current HVAC, Electrical needs and Future IT Expansions in the Design. Includes specialized custom energy-efficient HVAC to meet the challenging comfort and Indoor Air Quality needs for the Welding, Machine, Wood, Sheetmetal, HVAC, Diesel and Heavy Equipment Shops and school. EAct qualified energy efficient design provides excellent long-term operating savings.

The project qualified for EAct for energy efficient HVAC design while using over 27.3% less energy for HVAC and over 60% less energy for Lighting than schools designed using ASHRAE 90.1-2007.

Piedmont Elementary School HVAC Renovations



ZDS performed MEP design, 3D Scan-to-BIM, bidding and CA services for the replacement of an existing custom multizone unit, associated DDC controls and refurbished other HVAC units that had failed and were in need of constant maintenance/repairs. The work included necessary electrical modifications to serve the new rooftop unit. Project was completed within the budget allocated by the County.



The project qualified for EAct for energy efficient design while using over 27% less energy for HVAC than schools designed using ASHRAE 90.1-2007.

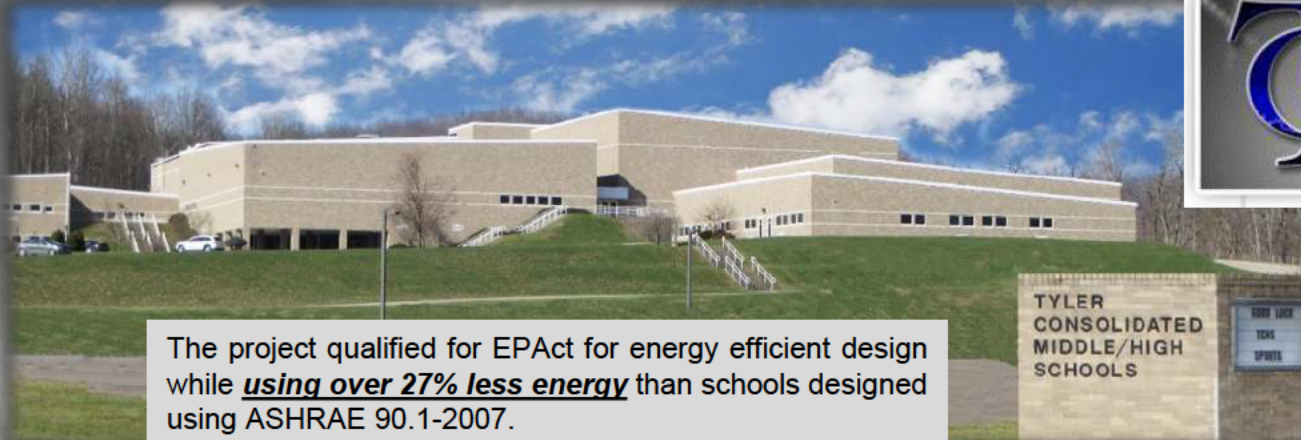
Project Costs: \$352,090, Project under budget!
School Size: 31,500 square feet
Contact: Chuck Smith, Executive Director: (304) 348-6148
Charles Wilson, AIA, (Retired): (304) 533-6149



Design/Consulting Services

Tyler County Schools

Tyler Consolidated Middle/High School - HVAC Renovations



The project qualified for EAct for energy efficient design while **using over 27% less energy** than schools designed using ASHRAE 90.1-2007.



**Condensing
Hot Water Boilers**

ZDS provided professional engineering design, bidding, construction administration, and **commissioning services** for HVAC upgrades at the Tyler Consolidated Middle/High School to meet Indoor Air Quality and today's energy codes. The initial step in the project was to provide engineering investigations of existing conditions where **ZDS** performed 3D Scan-to-BIM for reliable and accurate 3D capture of "built" conditions to use in design, bidding and construction. The 3D scans were also valuable to communicate remotely between the Owner and Contractors. The demolition and new work to be included in Phase I of the project included two (2) new high efficient chillers piped so they could be used even during winter months, three (3) new high efficient condensing boilers, variable water volume hydronic pump system, VAV Air-Handling Units, VAV Blower Coil Units, Fan Coil Units, Energy Recovery Ventilators, DDC control upgrades, select new hydronic piping and ductwork for the equipment, exhaust fans, electric work associated with serving the new HVAC system equipment and new electrical panel-boards. The energy efficient design qualifies this school for the federal EAct credit and will provide excellent long-term operating savings to the Tyler County School systems over the life of the new systems.

The school remained occupied, and phasing of the Work was critical throughout the construction process. The project was completed ahead of schedule and within the allocated budget.

Phase II work is on-going and intended to complete the HVAC upgrades, renovate the auditorium, additions/renovations to the headhouse (greenhouse), a two-story addition and provide high efficient lighting.

Estimated Phase I Project Costs: \$4,796,903, SBA funding \$3,698,578

Date Completed: Phase I completed 2019; Phase II projected 2023

School Size: 188,156 square feet

Contact: Ms. Amanda Kimble, Dir. Child Nutrition, Facilities and Support Services
(304) 758-2145 ext. 111, akimble@k12.wv.us
Mr. Jeff Davis, Treasurer, (304) 758-2145 ext. 108



Design/Consulting Services

Mercer County Schools

Princeton Middle School

HVAC Renovations



HVAC, electrical system and lighting upgrades to improve Indoor Air Quality addressing current codes, improve energy efficiency and comfort. Provide DDC controls and outdoor ventilation with energy recovery dramatically reducing indoor CO2 levels for a better learning environment. Providing air conditioning for classrooms, cafeteria, kitchen, Auditorium and administrative offices. Project included an electrical service upgrade to accommodate the added HVAC loads. **ZDS** performed 3D Scan-to-BIM for reliable and accurate 3D capture of "built" conditions to use in design, bidding and construction and remote communication.



Construction Costs: \$3,265,000, SBA funding \$1,000,000

Date Completed: 2018 (on time and on budget), **School Size:** 103,847 square feet

Contact: Ms. Leslie Wellman, Director of Purchasing: (304) 487-1551, lwellman@k12.wv.us

Princeton Senior High School Renovations



New Boiler



Chiller & Air Handling Unit Renovations



Mechanical Room

HVAC upgrades to central air handling equipment, new boilers, chiller replacement and a phase approach to upgrade major portions of the school. The initial phase of work was completed in 2012 and the design prepared for future renovations.

Contact: Ms. Leslie Wellman,
Director of Purchasing:
(304) 487-1551
lwellman@k12.wv.us



Construction Costs: \$1,786,000

Date Completed: 2012



Design/Consulting Services

Raleigh County Schools

Woodrow Wilson High School

Prime Consultant: Engineering Master Planning, Phasing development to match funding, energy analysis, Mechanical and Electrical design, bidding and construction administration services for retrofitting the school. School retrofitted over five phases due to funding. Project included comprehensive HVAC, electrical, lighting, fire alarm, and supporting work. The project qualified for EPA Act due to the energy efficient design.

"We have never been comfortable until now, we can now focus our attention on teaching and learning."
- Assistant Superintendent

Construction Costs: \$12,050,000; SBA Funds \$900,000

School Size: 240,000 square feet two-story campus-style high school

Contact: Mr. Racine Thompson, Former Asst. Supt.: (304) 222-3907 (c) (304) 253-6890 (h)



Randolph County Schools

Elkins Middle School – HVAC, Electrical and Plumbing Retrofits

ZDS developed the initial plan and phasing strategy while providing HVAC, plumbing, electrical, and fire protection engineering services and related work. The project was developed into three phases to coincide with the funding for the project. The 74,500 ft² three-story school was originally built in 1952 with additions in the 70's, 80's and 90's.

ZDS also assisted in securing the funding for the project through the School Building Authority. The project design addressed Indoor Air Quality and energy efficiency issues including providing comprehensive DDC controls over all the HVAC equipment and lighting controls. The plumbing systems were modernized to address current ADA issues and replace the 45 year old plumbing systems. The project qualified for EPA Act for energy efficient HVAC and lighting design while using over 50% less energy than schools designed using ASHRAE 90.1-2001.

Construction Costs: \$8,686,000; over a 50% reduction in HVAC and lighting operating costs

School Size: 74,500 square feet for a three-story school

Contact: Mr. Brad Smith, Dir. Finance: (304) 636-9150, ext. 155, brrsmith@access.k12.wv.us



*The engineering design and construction administration proved so successful that the Environmental Protection Agency (EPA) awarded Elkins Middle School with an **Energy Star®** certification, making the school one of the most energy efficient in the nation.*



Design/Consulting Services

Webster County Schools

Glade Elementary/Middle School – HVAC/Electrical Retrofits



ZDS designed the new HVAC system for the school to meet current ASHRAE 62 and West Virginia Department of Education, Policy 6200 requirements. The HVAC system was through packaged roof mounted VAV air handling units. **ZDS** designed comprehensive DDC controls with remote monitoring, humidity and CO₂ controls including DDC centralized monitoring. With the aid of **ZDS'** planning,

*The engineering design and construction administration proved so successful that the Environmental Protection Agency (EPA) awarded Glade Elementary/Middle School with an **Energy Star®** certification, making the school one of the most energy efficient in the nation.*

Webster County Schools was able to phase the project allowing the major construction efforts to continue without loss of any school days. The project qualified for EPA's Act for energy efficient design while using over 50% less energy than schools designed using ASHRAE 90.1-2001.

Construction Costs: \$3,667,620; over a 50% reduction in HVAC and lighting operating costs

School Size: 68,000 square feet

Contact: Scott Cochran, Superintendent: (304) 847-5638, ext. 113, scochran@k12.wv.us

Webster County High School used a 500 ton geothermal heat pump loop consisting of 240 wells; 307 foot deep, with over 28 miles of underground piping spread in an adjacent practice football field. The HVAC system is fully automated through a central Direct Digital Control (DDC) system. Indoor air Quality (IAQ) issues are addressed through increased ventilation, improved filtration, customizing the design of the AHU's to address current IAQ practices, and cleaning/coating existing ductwork. **It is the largest GeoExchange installation installed in West Virginia and the surrounding region. Even after years of successful operation the school is still among the most efficient in West Virginia scoring in the top 30 percentile when using Energy Star Certification database.**

Webster County Schools Webster County High School Renovations



Construction Costs: \$5,083,000; SBA Funds \$5,083,000;

over a 50% reduction in HVAC and lighting operating costs

Contact: Harry Given, Retired Dir. of Maintenance,
Webster County Schools: (304) 226-5288



Design/Consulting Services

Webster County Schools

Webster Springs Elementary School – HVAC Renovations

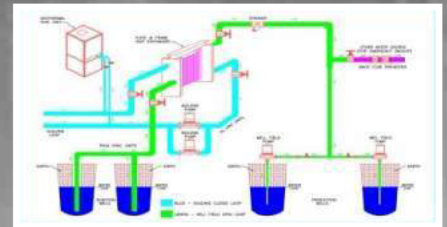


ZDS designed and installed a system that integrated both a closed-loop and open-loop geothermal system. This was the first system of its type installed, according to the State Department. **ZDS** helped establish a procedure to minimize the risk of cross contamination with the aquifers as part of this project and also improved the Indoor Air Quality through increased ventilation, improved filtration and the use of ultraviolet lights that reduce the risk of mold growth and airborne germs. **ZDS** also helped Webster County Schools to obtain funding for the project from the State's School Building Authority (SBA).

*The engineering design and construction administration proved so successful that the Environmental Protection Agency (EPA) awarded Webster Springs Elementary School with an **Energy Star®** certification, making the school one of the most energy efficient in the nation.*



**1st Place 2014 ASHRAE
Technology Award**



Construction Costs: \$1,430,000; SBA Funds \$1,300,000; over a 50% reduction in HVAC operating costs
Contact: Scott Cochran, Superintendent: (304) 847-5638, ext. 113, scochran@k12.wv.us

Ritchie County Schools Smithville Elementary Additions/Renovations

Developed the initial MEP plan and phasing strategy and provided HVAC, plumbing, electrical, and fire protection engineering services and related work for an 8,515 square-foot addition and comprehensive renovations of the existing school. The new HVAC system for the school meets current ASHRAE 62 and West Virginia Department of Education, Policy 6200 requirements. The HVAC system was through packaged roof mounted VAV air handling units. **ZDS** designed comprehensive DDC controls with remote monitoring, humidity and CO₂ controls including DDC centralized monitoring. The facility also qualified for EPA Act for energy efficient lighting using over 50% less energy. **The project was completed under budget and ahead of schedule while allowing for additional county needs to be included into the project.**

Construction Costs: \$3,754,900; SBA Funds \$4,379,162
Project under budget!

School Size: 17,729 square feet

Contact: Mr. David Weekly, Dir. Student Support Services:
(304) 643-2991, ext. 223



Design/Consulting Services

Jomie Jazz Center



Marshall University Jomie Jazz Center HVAC & Roof Renovations

ZDS entered into a contract with Marshall University to provide engineering services for selected HVAC and roof renovations at the Jomie Jazz Center. Upgrades included HVAC controls, new roofing and electrical work associated with the new equipment. Services included preparation of Construction Bid Documents, assistance with Bidding and Negotiations and full Construction Administration services. The Work for additional upgrades will be performed in phases due to limited budgetary funding.

Construction Costs: \$500,000 - \$1,000,000 in multiple phases
Contact: Mr. Larry Metcalf, Assistant Director, Physical Plant;
(304) 696-6241; metcalf@marshall.edu

Harris Hall & Smith Hall Renovations

Harris Hall included engineering planning, design, bidding and construction administration services for HVAC, Plumbing & Electrical retrofits, DDC Controls, AHU's replacement, chiller replacement, VAV pumping, new electrical service, switchgear and addressable fire alarm systems for the 56,680 square-foot facility.

Smith Hall, an eight-story classroom facility, consisted of exit stair tower smoke control system, and plumbing sanitary stack renovations as part of complete window replacement/upgrade to the largest classroom building on campus. It was completed a year ahead of schedule and under budget.



Harris Hall

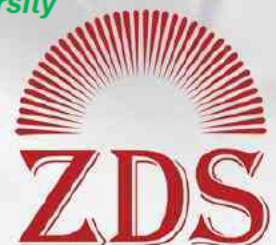


Smith Hall



"Harris Hall is now the most comfortable one on Campus!"
- Tony Crislip, **Marshall University**

Construction Costs: Harris Hall \$2,856,000, Smith Hall \$2,800,000
Contact: Mr. Ron May, Retired Capital Projects Mgr; (304) 654-2367
Mr. Tony Crislip, Retired Project Mgr.; (304) 633-2081



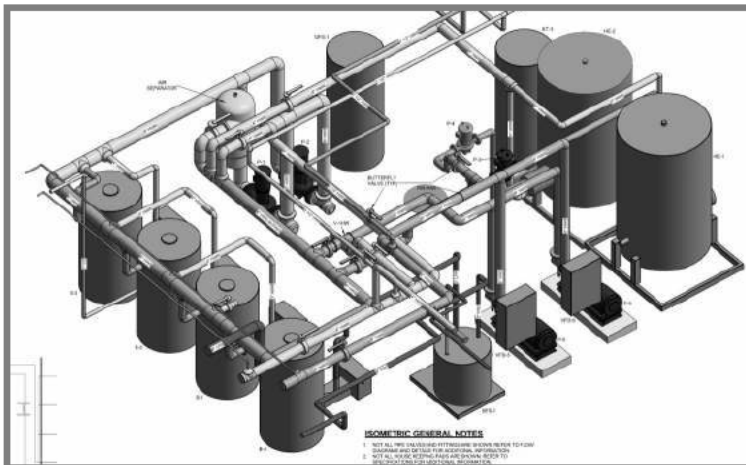
Design/Consulting Services

Project Cost: \$17,000,000, **Size:** 117,500 ft², **Date Complete:** 2017

Study/Evaluation, HVAC Renovations, Lighting Upgrades, Fire Protection, Electrical Renovations, 3D Scanning

Client Reference: Gary Boyd, Director of Facilities; (304) 357-4871

The facility consists of classrooms, offices, flexible meeting areas and a large two-story Innovation Center space. Mechanical and Electrical work includes new chiller and three heating hot water boilers with a steam boiler for the central boiler plants with pumps and accessories, HVAC air handling units, DDC Controls, new domestic and fire protection water services, new gas service, domestic water heating equipment, extensive plumbing fixtures/showers/lockers, new electrical service from the campus 12.5 kv distribution loop, switchgear, distribution and branch panel boards, and new state-of-the-art energy efficient LED lighting systems.



Renovations resulted in over a 50% reduction in energy over ASHRAE 90.1-2007 standards.

Size: 219,754 ft² plus 33,000 ft² Addition

Date Complete: 2017

219,754 ft² Renovation plus 33,000 ft² New Construction

Prime for Engineering Master Planning, HVAC Renovations, Lighting Upgrades, Emergency Generator, Fire Protection, Electrical Renovations, Roof Replacement, Commissioning, 3D Scanning.
Consultant for all MEP engineering through IKM, Inc. for the addition.

MEP Engineering design and Commissioning services for both the HVAC/lighting/roof Renovation project retrofitting Hospital and the patient wing addition. Comprehensive MEP engineering and commissioning services for a central domestic hot water services, central boiler/chiller plant and 1.8 MW bi-fuel emergency generator system. Central heating plant with three 10.5 Million BTU heating hot water boilers with low NOx burners to meet DEP emission requirements. WV Pumping for heating, cooling and domestic hot water. Integrated DDC controls for central monitoring, troubleshooting and control including demand control ventilation and outside air measuring/monitoring. The HVAC system is also an integral part of the smoke control system. Lighting systems upgraded to LED and controlled to minimize energy. IAQ enhancements were incorporated into the high performance HVAC systems. Careful phasing, and the need to disrupt only small portions of the Hospital at a time, resulted in an extended construction period.

“The **ZDS** staff are great planners and designers! They help us make the best decisions for the long term. We would recommend them to anyone!”
former Chief Operations Officer



Renovations resulted in a 48% reduction in lighting and 28.8% reduction in energy for HVAC renovations over ASHRAE 90.1-2001 standards qualifying the project for EPC.

Construction Costs:	Phase I HVAC Cost	\$ 1,403,000	Completed in 2011
	ARRA Funded Lighting Upgrade Costs	\$ 618,700	Completed in 2011
	Comprehensive Renovation Cost	\$30,000,000	Completed in 2017
	Addition Project Cost	\$13,500,000	Completed in 2014

Kanawha County Courthouse & Judicial Building

Charleston, WV



The Kanawha County Commission hired **ZDS** to provide HVAC/Roof Replacement engineering planning, design, bidding and construction administration services for the renovation of the 95,400 ft² Judicial Building and a 23,000 ft² addition using the ground floor of the parking garage connected to the Judicial Building. The facility includes circuit courtrooms, jury deliberation, attorney conferencing, witnessing, court clerical staff, public research, adult probation, prosecuting, maintenance, voter registration, court administration, and all public areas. The addition included a new entrance, security checkpoint, and lobby to accommodate a building expansion for Juvenile Probation and Family Court. Replacing the roof of the original building is being done concurrently with HVAC renovations for a coordinated effort.

ZDS assisted in identifying a phased approach to addressing and defining Indoor Environmental Quality (IEQ) issues and modifications for the Kanawha County Courthouse.

Total Judicial Bldg. Project Costs: \$13,807,000

ZDS Team Project Cost: \$6,737,000

Annex Project Size: Renovations 95,400 ft² plus 23,000 ft² addition

“No one else could identify the MEP problems even though many had tried. Yet, ZDS provided an excellent evaluation while working well with our Judges and staff for a very successful project. We use them for all our challenging work.”

- Kanawha County Commissioner

Project Cost: \$4,090,000.00

Size: 4,260 ft²

Date Complete: 2021

HVAC, Plumbing, Fire Protection, Lighting, Electrical and LV Systems

Client Reference:

WYK Associates, James Swiger, President; (304) 624-6326, james@wykassociates.com



Tyler County 911 Center



ZDS provided professional MEP engineering services for the preparation of construction documents on the new Tyler County 911 Center. Stringent Codes and standards for 911 facilities were researched and implemented into the MEP systems for the new facility. We designed a high performance geothermal well field that will serve the HVAC systems' equipment as well as a solar power panel array with equipment and components that is intended to provide all necessary electric power to the building. The electricity generated by the PV panels will exceed the needs of the facility and with the installation of an interconnecting system coordinated with the local utility the excess power will feed back into the utility grid for the County's use at the local Courthouse. The installation of the geothermal system coupled with the solar power generated will result in a significant overall reduction in energy costs to the Owner. The facility also has a propane-fired emergency generator to provide 100% backup for electrical needs in the event of a utility failure and an Uninterruptible Power Supply (UPS) system sized for all critical loads in the Operations Center. State of the art systems incorporated in our design included fire alarm, security, door access and vehicle entry gate openers. The building has a complete fire protection wet-pipe sprinkler system with the exception of clean agent dry suppression systems for the Server room and the Operations Center where sensitive electronic/data equipment is located.

State of West Virginia Capitol Complex

Charleston, WV



State of West Virginia Capitol Complex Charleston, WV

Project Cost: \$26,500,000

Size: 1,900,000 ft² covering 9 buildings

Date Complete: 2019 for latest project

**HVAC Renovations, Fire Protection,
Electrical Renovations, Consultant for Performance Contracting**

Client Reference:

Mark Lynch, Mgr. Facility Operations; mark.w.lynch@wv.gov
Patrick O'Neil, Project Manager; Patrick.S.ONeill@wv.gov

Builder Reference: Constellation Energy; Chuck Moeller
(previously with Johnson Controls; (724) 584-3331



Numerous design and renovation projects for the WV State Capitol Complex including engineering planning, design, supervision, preparation of construction documents, specifications, construction administration, and commissioning of HVAC systems, sprinkler systems, plumbing systems, electrical power, lighting, fire alarm, security, technology and communications for many facilities on the WV Capitol Complex: **WV Division of Protective Services:** Engineering master planning & design for specific life safety issues involving homeland security, fire alarm, sprinklers, emergency power, CCTV, intercom, mass notification and "giant voice" system for all State facilities on the Capitol Complex under a 10-year open-end contract. **WV Division of Culture and History Library** renovations addressing long-term HVAC and IAQ problems including fire alarm and fire protection upgrades completed in 2011. Renovations conserved energy without sacrificing comfort or indoor air quality. **District Heating System:** As a consultant to Johnson Controls under a Performance Contracting program to provide master planning and design for the district heating system for the **WV Capitol Complex**. The project included the Master Planning, IAQ evaluation, energy analysis, code analysis and Mechanical design involving more than 1,900,000 ft² of facilities including the Capitol Building, Building's #3, #4, #5, #6, #7, Holley Grove, Governor's Mansion and the Culture Center.

Master planning & design for central heating plant, DDC controls, Air Handling Unit replacements and retrofits, operating and maintenance, training, heat recovery, fuel conversion, VFD's, variable water



The Capitol Complex renovations are estimated to save nearly \$2,000,000 annually over the costs of operating the old systems.



The Prince Jonah Kūhiō Kalanianaʻole (PJKK)
Federal Building and
United States Courthouse
Honolulu, Hawaii



130th Airlift Wing at Yeager Airport, Phase I
and Phase II: Aircraft Maintenance Fuel
Systems Hangars and Shops

Awarded a **LEED Silver Certification** for
each of the two phases

"ZDS's commissioning services were invaluable in helping us understand our facility and ensure the systems were installed as intended and optimized for long-term operating benefits. We would recommend them again!" - **Captain Harry Netzer, WVANG Project Manager**



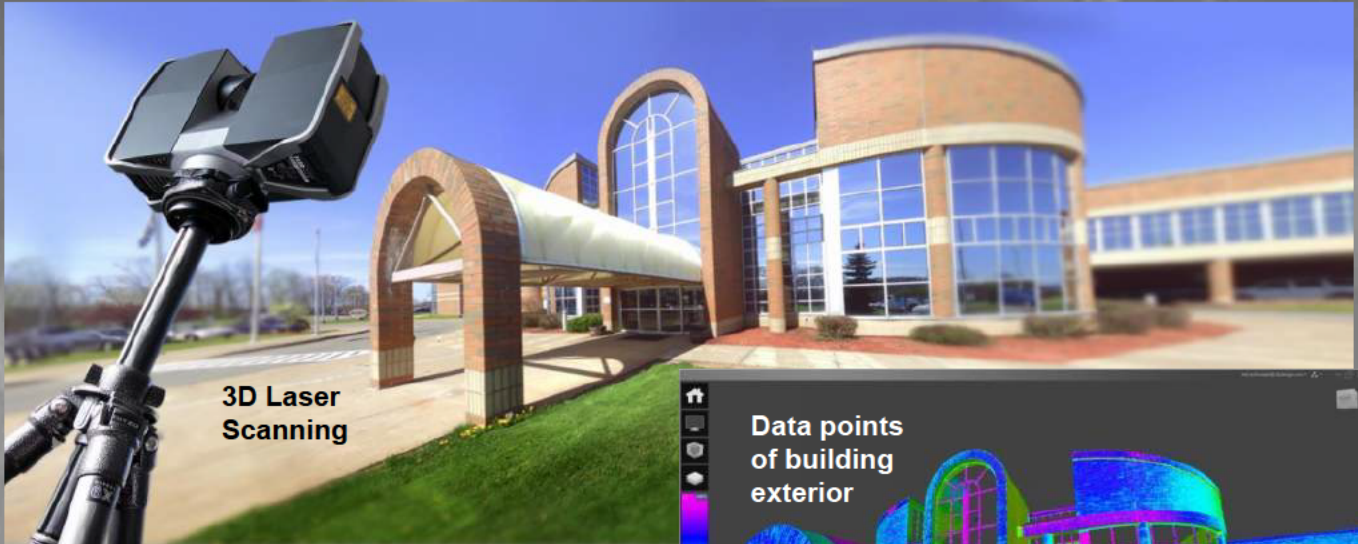
Harvard University
Arnold Arboretum Weld Hill
Research and Administration Building

LEED Gold Certified

- CAMC General Division, Memorial Division & Women & Children's Hospital
- General Motors (GM) of North America
- Maryland – Calvert County Indoor Aquatic Center
- Montgomery County Departments of Correction and Police
- Roane General Hospital, WV
- Ohio University – Chillicothe Campus, Stevenson Library and Bennett Hall
- Santa Ana Federal Building Renovations
- University of California, Davis School of Veterinary Medicine Instructional Facility
- Washington & Lee University
- William R. Sharpe Jr. Hospital
- WV Museum of Culture and Natural History
- WV State Capitol Complex
- WVU—Downtown Campus
- United Hospital Center

BIM - 3D Digital Imaging

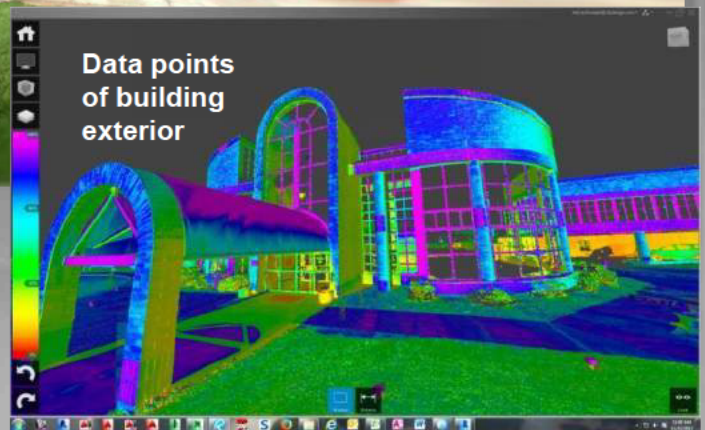
Our 3D Laser Scanning Services helped William R. Sharpe, Jr. Hospital document existing conditions and integrate their 50-bed addition.



Why 3D Laser Scanning is better:

3D laser scans reveal significant differences between existing conditions and the original drawings.

3D laser scans also provide superior details by capturing data that is more comprehensive and precise than conventional methods.



“With the 3D laser scanning service, ZDS saved us countless hours communicating to all project team members, even to those who work or live far away.

Also, we now have an accurate record of the existing conditions that DHHR can easily access now and into the future.”

former Chief Operations Officer



Web Share:

3D laser Scanning allows facility owners to view and measure areas with others on their planning and construction team.





Bridgeport High School Science Lab Classrooms

Bridgeport, West Virginia

WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING



Science Classrooms

Upgrades to local high school

Bridgeport High School is home to more than 800 students. The present building opened in 1963, and since that time it has undergone three major renovations by WYK Associates, Inc.

Among these additions and renovations were new science classrooms. Each of these classrooms have two zones; the first zone is the traditional classroom configuration with desks and marker board. The second zone the student laboratory area. The laboratory area has a teacher demonstration station and twelve student sink stations, each with individual storage. The lab area also has storage cabinets and shelves for science equipment and a preparation room.

WYK Associates, Inc. has been a part of Bridgeport High School's frequent remodeling and technological updating since 1992.



Project Facts

Original: 1963

Completed: 2001

www.wykarchitects.com

Bridgeport Public Safety Substation

Bridgeport, West Virginia



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING



A Focus on Safety

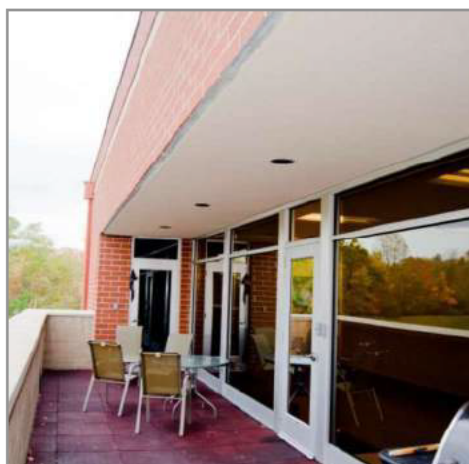
Public Safety Substation doubles as an emergency shelter.

This facility is located directly adjacent to the new United Hospital Center at Jerry Dove Drive and strategically situated within a ½ mile radius of I-79 and the White Oaks and Charles Pointe Developments.

The building is a substation for the Fire and Police Departments of the City of Bridgeport. The structure is a combination of load bearing masonry and structural steel frame with a decorative brick veneer. The Apparatus Bay and supporting facilities are one story, slab-on-grade with an abundance of natural daylight.

The radiant gas heating, vehicle exhaust and high efficient lighting systems are integrated nicely into the exposed roof structure above. The administrative offices along with each of the department's support facilities are in a connected, two story masonry and steel frame structure.

This facility was designed as a 75-100 year structure to serve the needs of this ever growing area region. The building's power is completely backed up by an emergency generator which will allow it to double as an emergency shelter in times of need.



Project Facts

Size: 15,000 s.f.

Completed: October 2009

www.wykarchitects.com



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Robinson Grand Performing Arts Center Restoration / Renovation

Clarksburg, West Virginia

Historic property brought back to life!

Local theatre to revive downtown

The Robinson Grand Performing Arts Center is comprised of several different layers of classifications, including restoration, rehabilitation, renovations and additions. The 45,000 S.F. project included the restoring of the building's exterior masonry, updating the performance hall to seat over 1,000 guests, adding all new HVAC, finishes, electrical, sound, stage rigging, plumbing, complete roof replacement, concessions, restrooms, stage curtains, lighting, sound systems, dressing rooms, LED lighting, a barrel vaulted ballroom, a multi-purpose educational center, caterer's and preparation kitchens, circular bar, two new elevators, a loading dock and state-of-the-art marquee as well as structural enhancements throughout the building.

The City of Clarksburg purchased the building in April of 2014 and hired WYK in June of 2014 to begin the conceptual design process. WYK worked closely with the WV State Historic Preservation Office and the Owner's tax credit Consultants from the very beginning stages of design. A large portion of this project focused on conducting an ADA / building code assessment and designing the proper solutions. These included: ADA compliant restrooms, a new elevator, and the creation of new accessible routes throughout the center, which has 15 different levels.

The project was ultimately awarded \$6.5 million in state and federal historic and new market tax credits. Other awards the Robinson Grand received include the 2018 Excellence in Construction Award from the Associated Builders and Contractors, Inc. West Virginia Chapter. The project was completed in October of 2018.





WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Robinson Grand Performing Arts Center Restoration / Renovation

Clarksburg, West Virginia



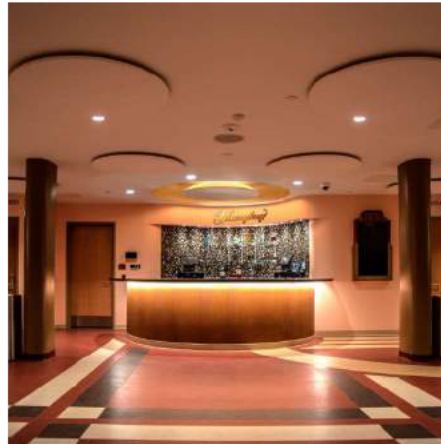
Original Lobby



New Lobby



Original Second Floor Lobby



New Second Floor Lobby and Bar



Original Ballroom



New Ballroom

Project Facts

Original Bldg: 1913
Theatre Fire: May 1939
Rebuilt: December 1939
Closed: 2000
Bought by City: 2014
Renovation Completed: 2018
45,000 Square Feet

Project Partners

www.wykarchitects.com
www.aurora-llc.com/
www.studioilighting.com
www.casstruceng.com
www.wrldesign.com
www.zdsdesign.com
www.pcscmservices.com



**Winner of Two AIA WV 2019
Design Awards**

Davis Memorial Hospital – Cancer Center

Elkins, West Virginia



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING



Life-Changing Medical Care for a Whole Region

CONSULTANT:

Andrew G. Bukovitz

Radiological Physics Service, Inc.

Designed as an integral part of an existing hospital campus, this Cancer Treatment Center uses materials and massing like surrounding buildings. Masonry quoins add interest to the building's simple footprint.

The client's goal was to combine nuclear and experimental medicine with an intimate, residential atmosphere to promote maximum healing. Interior finishes and furnishings soften the medical setting.

Access is paramount for both the patient and their caregivers, who await them during treatment. The porte-cochere features a stilted round arch with contrasting keystone, which is repeated in a reduced scale for the entry. The flat arches of the windows also use the contrasting keystone. The buildings' masonry back wall, which is visible from other hospital campus facilities, exhibits the same stilted arch with contrast detail as a detail in the masonry.



Project Facts

Size: 80,000 s.f. (New)

Completed: June 2014

www.wykarchitects.com



Proposed Staffing Plan

Certifications

Resumes

Team Staffing Plan



ZDS Management Team



Ted Zachwieja III, PE, CEM
CTO/BIM Manager
MEP Engineer-of-Record



Todd Zachwieja
PE, CEM, LEED AP
Principal-in-Charge



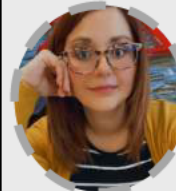
James Swiger, AIA, NCARB
President/Architect

Irene Malfregeot, Allied AIA
Director of Finance/Business Development

Stephen Kelley, AIA
Architect



Jim Watters
Associate, MEP Design
Cost Estimating/CA



Lauren Headley
Marketing Coordinator/CA



David Cotton, PE, LEED AP BD+C
MEP Engineer



Paul O'Dell, PE
MEP Engineer



Mike Chancey, PE, LEED AP
MEP Engineer



Meher Meka, MSEE, EI
MEP Designer



Mark Estep, PE
MEP Engineer

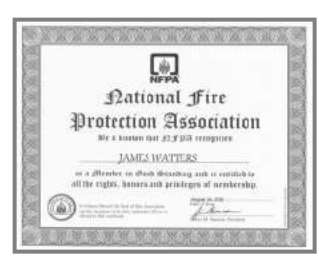
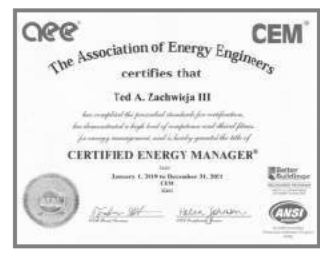
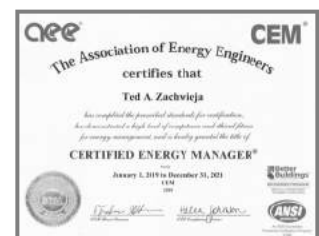
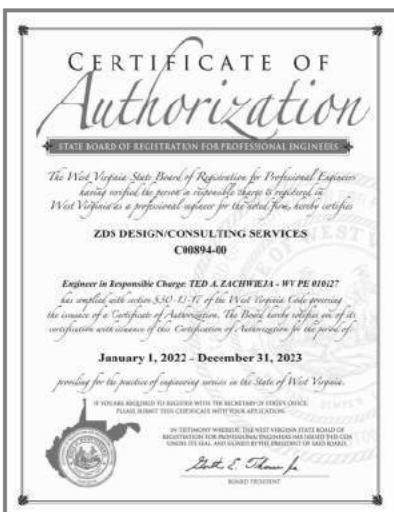
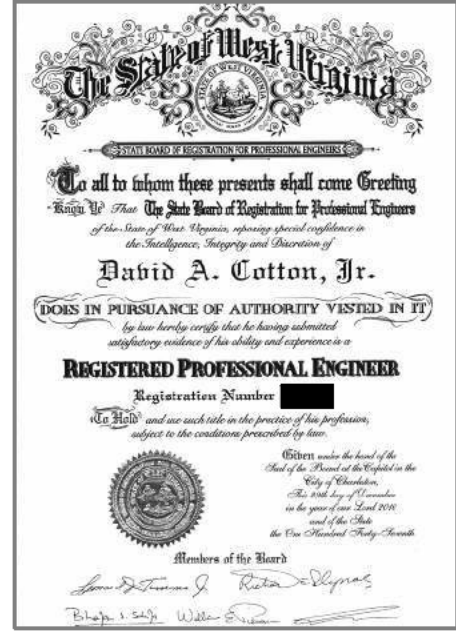
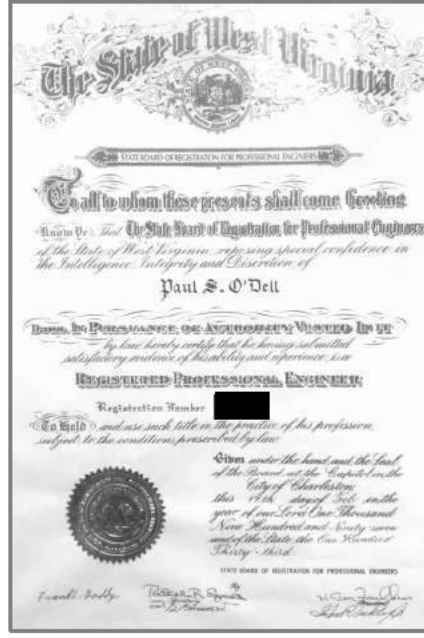
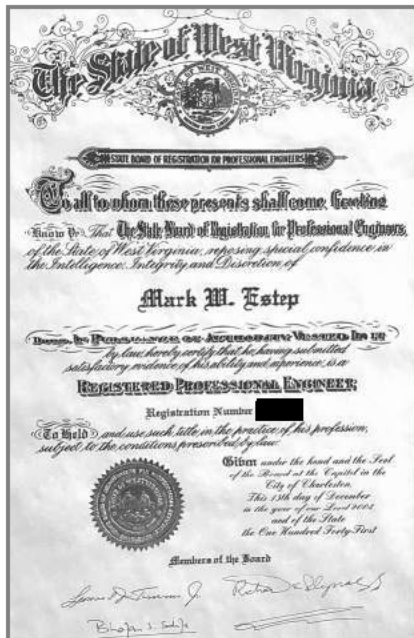
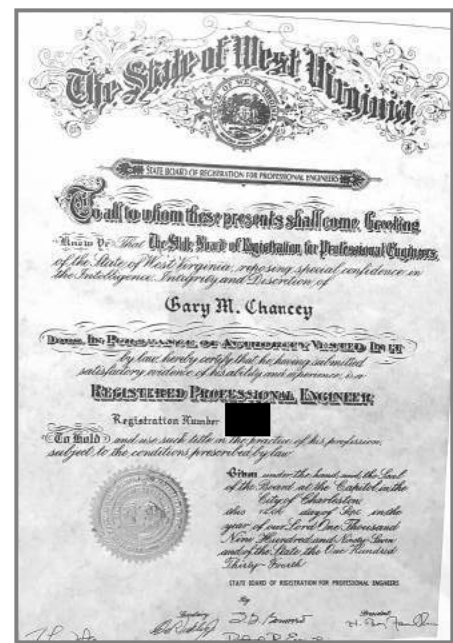
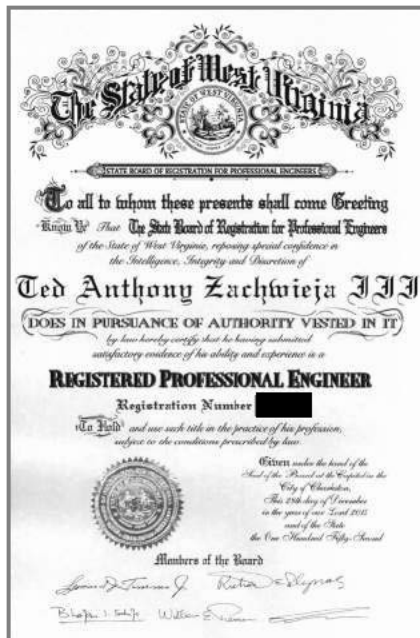
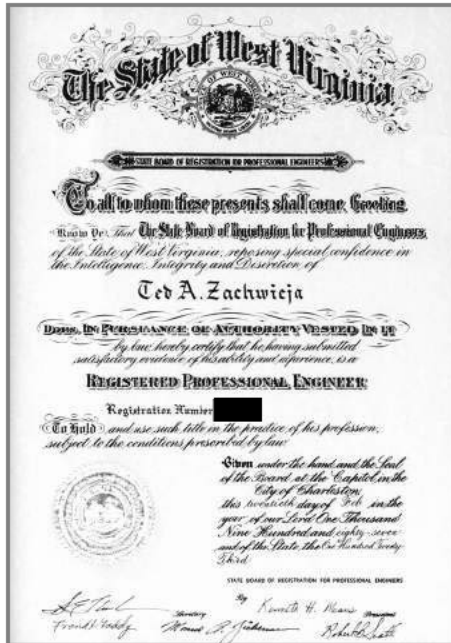


Billy Smith, BSME
MEP Designer



Vineel Busa, PE
MEP Engineer

Certifications



Todd Zachwieja, PE, CEM, LEED AP



Todd has over 40 years of experience involving the analysis, design, construction management and specifications for mechanical engineering, heating, ventilating, air conditioning, plumbing, fire protection, electrical and lighting, as well as indoor environmental quality analysis, building system commissioning and forensic engineering for educational, governmental, military, commercial, industrial and health care clients. He is also recognized as a **campus master planner** for utility infrastructure providing master planning at many Universities, hospitals and the State of WV Capitol Complex.

Prior to starting a consulting engineering firm, Todd Zachwieja coordinated comprehensive energy conservation programs resulting in annual energy savings of millions of dollars. He has managed a profitable regional office for one of the country's largest energy companies that service the southeastern United States. Todd also developed computer modeling programs for building energy analysis and monitoring. He has been invited as an industry leader to present technical papers and speak at professional conferences both regionally and nationally.

Todd selected and designed the pilot project for one of the largest geothermal heat pump applications in the Eastern US including designing custom geothermal rooftop AHU's. He has retro-commissioned HVAC systems for millions of square-feet for facilities located in 10 states. He has been involved with many commercial structures including high-rise commercial building renovations. Todd designed renovations to many existing schools which received **Energy Star Certifications** placing them in the nation's top 25% of energy efficiency schools. *The College Planning and Management Magazine* featured Todd and his work with a major University for the performance contracting programs that save millions of dollars in energy and operating costs. Most projects also qualified for EPA's Act which requires buildings use over 50% less energy than buildings designed using ASHRAE 90.1.

K-12 EXPERIENCE - Hundreds of K-12 Schools both public and private in West Virginia Counties of Calhoun, Clay, Fayette, Grant, Greenbrier, Hardy, Harrison, Jackson, Kanawha, Lewis, Logan, Marion, McDowell, Mercer, Mingo, Monroe, Ohio, Pleasants, Pocahontas, Putnam, Raleigh, Randolph, Ritchie, Summers, Taylor, Tucker, Tyler, Upshur, Webster, Wirt and Wyoming. Allegheny County Maryland School District as well as schools in Pennsylvania.

- Ben Franklin & Carver Career Centers
- South Charleston Middle & High Schools
- New Leager Elementary School
- Smithville Elementary School
- Jane Lew Elementary School
- Grandview & Piedmont Elementary Schools
- Greenbrier East & West High School
- Greenbrier East & West Middle School
- Petersburg High School Renovations
- East Hardy County High School
- Chesapeake Elementary School
- Princeton High School
- Glenwood K-8 School
- James Monroe High School
- Winfield High School
- Poca Elementary School
- Woodrow Wilson High School
- Marsh Fork Elementary School
- New Southside K-8 School
- New Trap Hill Middle School
- New Shady Spring Middle School
- Princeton Middle School
- Liberty/Independence High Schools
- George Washington High School
- Tucker County High School
- Webster County High School
- Ritchie County Middle/High School
- Park Middle School
- North Marion High School Renovations
- Pleasant Hill Elementary School
- South Charleston High School
- Webster Springs Elementary School
- Glade Elem./Middle School
- Tyler Consolidated Middle/High School
- Riverside High School
- St. Marys High School



PROFESSIONAL REGISTRATIONS

Professional Engineer:

Florida
Georgia
Kentucky
Maryland
North Carolina
Ohio
Pennsylvania
South Carolina
Virginia
West Virginia

Fire Investigation Certification under the direction of Peter Vallas, Sr.



Certified Energy Manager
(C.E.M.) National
Certification No. [REDACTED]



LEED Accredited Professional,
National Certification through
USGBC No. [REDACTED]

EDUCATION

Masters of Science in Engineering
Management from West Virginia University
College of Graduate Studies.
Bachelor of Science in Mechanical
Engineering from West Virginia
Institute of Technology.

Todd Zachwieja, PE, CEM, LEED AP

PROFESSIONAL AND COMMUNITY AFFILIATIONS

Past President 2013-14, current Governor - WV ASHRAE Chapter, Served as ASHRAE's Energy and Technical Affairs Chairman for six years. Recognized by ASHRAE Region VII in 2014 with the David Levine Award of Excellence, Presidential Award of Excellence,

Recognized by the International Who's Who of Professionals

Recognized nationally as West Virginia's Business Man of the Year

Recognized by AEE nationally in 2007 as a Legend in Energy

Recognized by AEE nationally in 2008 as a Charter Legend in Energy

Charter Life Member of the Association of Energy Engineers

Professional Affiliate Member of the American Institute of Architecture

Associate Member West Virginia Society for Healthcare Engineering

Member of the International Code Council

Member of the National Society of Professional Engineers



OTHER RECOGNITIONS

Selected by WVU and the WV Division of Energy to train Code officials and the design community on ASHRAE 90.1 State Energy Code

Presented at regional and national conferences including the annual National System Commissioning Conference

Contributing editor and served on the Editorial Review Panel for *"The Handbook of Building Management and Indoor Air Quality"*

Contributing editor *"Ventilation for a Quality Dining Experience"*

Contributing editor and served on the Editorial Review Panel for *INvironment Professional, Power Prescriptions* and other publications and articles featuring Indoor Air Quality (IAQ) and MEP engineering systems

Energy Star Certified for facilities in the nation's top 25% of energy efficiency

1st Place 2014 ASHRAE Technology Award, Region VII

LEED Silver Certified WVANG Fuel Cell/Maintenance Hangar, Charleston, WV

LEED Gold Certified Harvard Arboretum, Boston, MA

First ASHRAE bEQ certified building in West Virginia, 2015



Ted Zachwieja III, PE, CEM



Ted has over 16 years of experience in building construction design industry. His strategic thinking and development of technical resources at ZDS has helped streamline design processes and improve quality of work office wide. Ted is an innovative problem solver in engineering design, communication methods and management of BIM models between stakeholders during a design project. As a pioneer and a believer in technological processes Ted has championed Integrated Design Practices that has become the fabric of ZDS's day to day operations.

Ted developed ZDS's 3D Scanning services which have assisted in collecting key existing conditions for renovation projects, forensic engineering, historical preservation, and high definition reality capture. Ted has in depth experience on collection, registration, and scan to BIM processes. He has provided training and developed materials for best practices when using 3D scan data. Ted's 3D scanning experience includes governmental, educational, health care, industrial, and commercial facilities. He also has experience in speaking on how 3D laser scanning impacts our industry today.

Ted develops, designs and manages the IT systems. The experience encompasses development and deployment of central server systems to networked client computer systems, strategic development for ZDS' Integrated Design Processes, and research and development into new technologies to continue staying on the cutting edge for ZDS and others.

Ted's project experience includes design and commissioning for heating, ventilating, air conditioning, plumbing, fire protection, electrical and lighting systems for educational, health care, industrial and commercial facilities. His experience encompasses working both on new construction and renovation projects. He also is experienced in historical facilities including theatrical.

Ted maintains an active membership to the ASHRAE professional society and also has a lifetime membership to the Association of Energy Engineers. He maintains an active continuing education towards today's standards and codes as well as participates in ASHRAE at both a local and society level. He was recently appointed to the Electronic Communications Standing Committee with ASHRAE. Ted has designed renovations to existing K-12 schools which received **Energy Star Certifications** placing them in the nation's top 25% of energy efficiency schools.

K-12 EXPERIENCE

- Kanawha County Schools (County-wide)
- Andrew Jackson Middle School
- Ben Franklin Career & Technical Center
- Grandview Elementary School
- Piedmont Elementary School
- South Charleston Middle School
- Raleigh County Schools (County-wide)
- Davis-Thomas Elem./Middle School
- Elkins Middle School **-Energy Star Certified**
- Greenbrier West High School
- New leager Elementary School **-Energy Star Certified**
- Jane Lew Elementary School
- Lashmeet/Matoaka Elem. School
- Mercer Co. Technical Education Ctr.
- Bluefield High School & Vocational
- Princeton Middle School **-Energy Star Certified**
- Montcalm High School
- Pendleton Co. Middle/High School
- North Fork Elem. School
- Park Middle School
- Princeton High School
- Sacred Heart Pavilion
- Smithville Elementary School
- Spanishburg Elementary School
- Glade Middle School **-Energy Star Certified**
- Woodrow Wilson High School
- New Southside K-8 School
- Clay Elementary School
- Eastern Greenbrier Middle School
- Man K-8 School
- Kimball Elementary School
- James Monroe High School
- Pocahontas Co. Community Center
- Ritchie County Middle/High School
- Shady Springs High School
- Tyler Consolidated Middle/High School
- Riverside High School
- St. Marys High School



PROFESSIONAL REGISTRATIONS

Professional Engineer:

Florida
West Virginia

Certified Energy Manager (C.E.M.)

National Certificate

No. [REDACTED]



EDUCATION

Bachelor of Science in Mechanical
Engineering from Rochester Institute of
Technology, Rochester, NY

AWARDS AND RECOGNITIONS

Awarded 2012 Legend in Energy
by the Association of Energy Engineers

Awarded acceptance into ASHRAE's
2015 Leadership University

ASHRAE Blue Ribbon Award of Excellence
Co-Author at Autodesk University



Energy Star Certified for
facilities in the Nation's top
25% of energy efficiency

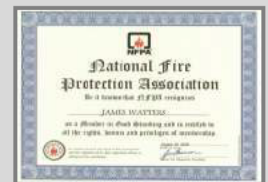
Jim has over 45 years' experience in design and implementation of lighting, HVAC, plumbing and electrical systems including nine years in the construction industry. He has a comprehensive knowledge of construction documents, contracts, and development of cost estimates, budgets and schedules. Jim's strengths reside in his ability to manage projects and people in an organized and cost-effective manner. Jim has been involved with the design and production of mechanical and electrical drawings including HVAC, plumbing, fire protection, lighting, electrical power, fire alarm and specialized systems. He has worked with and managed engineers in projects for health care, educational and commercial buildings in the states of West Virginia, Florida, Maryland, Pennsylvania, Ohio, Kentucky, Virginia, Georgia, New York, Arizona, Illinois and Massachusetts.

Jim has extensive experience in energy savings' programs for lighting, HVAC, plumbing and electrical systems in hospitals, state and government office buildings, school systems, and manufacturing facilities, as well as managing performance contracts for a large facility's campus totaling \$10,000,000 in construction costs on various projects, including the conception, design and construction administration for the installation of a 1.5 Megawatt emergency generator. The propane-fired generator and associated switchgear in conjunction with 60,000 gallons of propane fuel storage served to provide peak shaving/load shedding to save on the campus utility costs as well as emergency power functions. Through the years, Jim has researched and implemented into practice International Building Codes, NFPA Codes, National Electrical Codes, Life Safety Codes, IES standards, AIA Guidelines for Design and Construction, and ADA guidelines. His involvement in construction through the years has been mainly from the design side of the industry with a 9 year stint working for a contracting firm at the turn of this century. His experience includes coordinating with Architects, Owners and Agencies including an excellent relationship with the office of State Fire Marshal.



PROFESSIONAL AFFILIATIONS

Member of the National
Fire Protection Association (NFPA)



Member of the Health
Care Section of the NFPA

Past Member of the Illuminating
Engineering Society (IES)

Past member of the American Society
of Plumbing Engineers (ASPE)

Past member of the Institute of
Electrical Engineers (IEEE)

OTHER RECOGNITIONS

Energy Star Certified
for facilities in the Nation's
top 25% of energy efficiency



K-12 EXPERIENCE

- Kanawha County Schools, County-Wide
- Woodrow Wilson High School
- Mercer County Technical Center
- Smithville Elementary School
- Ritchie County Middle/High School
- Pocahontas Co. Community Center
- Pleasant Hill Elementary School
- Paul Blazer High School
- New leager Elementary School,
Energy Star Certified
- Park Middle School
- Princeton High School
- Lashmeet/Matoaka School
- Montcalm High School
- South Charleston Middle School
- Spanishburg Elementary School
- Greenbrier West High School
- Greenbrier East High School
- Elkins Middle School,
Energy Star Certified
- Davis-Thomas Elem./Middle School
- Jane Lew Elementary School
- Princeton Middle School,
Energy Star Certified
- Tyler Consolidated Middle/High School
- Glenwood K-8 School
- Sacred Heart Pavilion
- Tucker County Career Center
- Glade Elementary School
- Glade Middle School,
Energy Star Certified
- Kimball Elementary School
- Andrew Jackson Middle School
- Riverside High School
- St. Marys High School
- Dozens of other K-12 Schools
- Historical Renovation Projects

Lauren has been with ZDS for nearly seven years, in the engineering design industry for over 18 years and is extremely familiar with the design process of a successful project from start to finish. She is in charge of our marketing which starts with researching upcoming projects ZDS may be a good fit for, and prepares our Statement of Qualifications for each unique opportunity. She also prepares extensive Power Point presentations for potential interviews, and as our marketing coordinator, keeps our marketing materials fresh and up to date with each new job obtained or employee added to our team. Most recently Lauren played a big part in updating our new company website using WordPress.

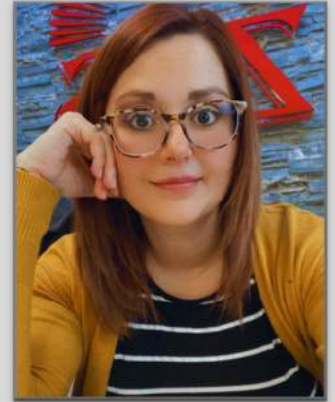
Lauren also oversees many administrative tasks throughout our office. She prepares AIA documents as needed such as change orders, applications for payments, Standard form of Agreements as well as all contract documents for Specifications. She has many years of experience editing and formatting Masterspec documents and most recently assisted ZDS in making the switch to SpecBuilder to make the process easier and more organized. When a project is out to bid she proofs drawings/specifications, creates a plan holders list, issues Addenda and corresponds with Contractors through the bidding process. She also assists with Construction Administration by preparing meeting agendas, minutes and construction reports.

Additionally Lauren maintains our client database, handles all shipping needs, coordinates all internal meetings, schedules lunch n learns, maintains our publications library and proofreads important outgoing documents. She wears many hats in our office while working to complete her Bachelor's degree.

Lauren has worked on an extensive amount of projects through the years for: K-12 Schools, Colleges/Universities, Healthcare facilities, Commercial facilities and Government facilities.

PROFICIENT IN THE FOLLOWING PROGRAMS:

- Microsoft Office Software: Word, Excel, Publisher, PowerPoint, Outlook
- Adobe Software: Photoshop, Pagemaker, InDesign, Premier Rush
- Bluebeam Revu
- Deltek Vision Accounting Software
- AIA Contract Documents
- Masterspec Software/SpecBuilder
- Engineer Office Software
- WordPress
- Office 365 Software: CRM, OneNote, Planner
- Energy Star



EDUCATION

Associates Degree in Marketing
Strayer University

Bachelors Degree in
Business Administration
Strayer University
2021—Present

PROFESSIONAL REGISTRATIONS

Official State of West Virginia Notary

AFFILIATIONS

Current President Emeritus
Itty Bitty Kitty Committee, Inc.
(animal rescue)

Former Red Cross
Blood Drive Coordinator

David is a professional Mechanical Engineer with over 16 years of experience in the design and construction of over 500 projects having construction values up to \$35 million. His design experience ranges from commercial, industrial, institutional, healthcare, education, restaurant, retail, government, airport, and recreational facilities.

David collaborates well with fellow engineers, architects, owners, commissioning agents, contractors, and vendors to define project scope and develop conceptual designs. As a project manager he successfully manages projects from start to finish in design, bidding, and construction administration.

PERSONAL PROJECT EXPERIENCE

- Dominion Office Building—LEED Gold, Bridgeport, WV
- Mon General Hospital Echo Renovations, Morgantown, WV
- Mon Health LTAC for Acuity, Morgantown, WV
- UHC POB 4th Floor Fitout, Clarksburg, WV
- Clarksburg Comprehensive Care Clinic Renovations, Clarksburg, WV
- Jerry Dove Medical Office Building, Bridgeport, WV
- Medbrook Building HVAC Replacement, Bridgeport, WV
- Mylan Pharmaceuticals, Morgantown, WV
- Total Dental, New Multi-Tenant Building for PCE, LLC, Bridgeport, WV
- Beckley Police Station, Beckley, WV
- Doddridge County Athletic Complex, Doddridge County, WV
- Boy Scouts of America, Rex W. Tillerson Leadership Center, Fayette County, WV
- White Hall Public Safety Building, White Hall, WV
- Beitzel/Pillar Innovations Office Building, Garrett County, MD
- Percival Hall Absorption Chiller and Cooling Tower Replacement, Morgantown, WV
- Thrasher Engineering Office Building, Bridgeport, WV
- WVU Creative Arts Center Rehearsal Hall, Morgantown, WV
- WVU Towers Dining Hall Renovations, Morgantown, WV
- WVU Athletic Performance Center, Morgantown, WV
- HP Hood Addition/Renovations, Winchester, VA
- Dominion Office Building, Delmont, PA
- University of Pittsburgh Softball Practice Facility, Pittsburgh, PA
- Westmoreland Community and Technical College, Indiana, PA
- WVU Alumni Center, Morgantown, WV
- WVU Biomedical Research Facility, Morgantown, WV
- WVU Milan Puskar Locker Room Renovations, Morgantown, WV
- NOAA GOES-R Supercomputing Center, Fairmont, WV
- Columbia Gas Transmission Compressor Station, Mathias, WV



PROFESSIONAL REGISTRATIONS

Professional Engineer:

West Virginia

Maryland

Virginia

North Carolina

Ohio

Pennsylvania

LEED AP BD+C Professional Accreditation

NCEES Record Certificate

EDUCATION

Bachelor of Science

Mechanical Engineering

WV Institute of Technology

MEMBERSHIPS

WV ASHRAE, Current President

National Fire Protection Association

WV Society of Healthcare Engineers

Mike Chancey, PE, LEED AP

Mike has over 35 years of experience in electrical design and project management for industrial, commercial, residential, institutional, educational and recreational facilities. Building system design includes lighting, site lighting, power distribution, communications, surveillance, access control, and fire protection. Past accomplishments include design and construction administration of health care facilities, schools, municipal, sports, commercial and retail facilities.

PERSONAL PROJECT EXPERIENCE

- Jefferson Co., OH Courthouse Courtroom Renovations
- Mon Co. Courthouse Entry Plaza
- Morgantown Public Safety Building
- Whitehall Public Safety Building
- Pocahontas Co. Courthouse Lighting Upgrade
- Davis & Elkins College Hermanson Center Renovations, Elkins, WV
- Clarksburg Aquatic Center, Clarksburg, WV
- Harrison County Recreation Complex 4-H Center, Bridgeport, WV
- East Marion Pool Renovations, Fairmont, WV
- WVU Mountaineer Station Phase II, Morgantown, WV
- WVU Wrestling Locker Room Renovation, Morgantown, WV
- WVU Milan Puskar Stadium Ad Board Upgrades, Morgantown, WV
- WVUH Residential Treatment Center at Mylan Park, Morgantown, WV
- WVU Milan Puskar Stadium (AD) Athletic Director's Suite Renovations, Morgantown, WV
- WVU Marina Tower Fitout, Morgantown, WV
- WVU Honors Dormitory, Morgantown, WV
- WVU CAC Rehearsal Hall, Morgantown, WV
- WVU Visitor's Resource Center, Morgantown, WV
- WVU College Park Apartments, Morgantown, WV
- Boy Scouts of America, Rex W. Tillerson Leadership Center. Glen Jean, WV
- Mountaineer Medical Office Building, Bridgeport, WV
- Morgantown Event Center, Morgantown, WV
- Morgantown Event Center Parking Garage, Morgantown, WV
- The Health Plan, Wheeling, WV
- West Virginia State Police, Fairmont, WV
- White Hall Public Safety Building, White Hall, WV
- Pocahontas Co. Courthouse Lighting Upgrade, Marlinton, WV
- Mon County Extension Building, Morgantown, WV
- Beckley Police Department, Beckley, WV
- Beckley Fire Station # 3, Beckley, WV
- Morgantown Public Safety Building, Morgantown, WV
- Mon County Courthouse Plaza, Morgantown, WV



PROFESSIONAL REGISTRATIONS

Professional Engineer:

West Virginia

Maryland

Virginia

Ohio

Pennsylvania

LEED Professional Accreditation

EDUCATION

Bachelor of Science

Electrical Engineering

WV Institute of Technology

MEMBERSHIPS

National Society of Professional Engineers

WV Society of Professional Engineers

WV American Institute of Architect

Mark has over 18 years of experience and is responsible for the design of commercial, institutional, and industrial mechanical and electric projects. He works with architects, civil and structural engineers to coordinate design and construction documents. He is responsible for project specifications and submittal review. Mark holds Degrees in Engineering and Architectural Technology which provide more than engineered solutions. He designs solutions that incorporate essential and functional needs, as well as aesthetic, life-safety, and constructability considerations.

Before joining ZDS, Mark was the President and Principal Engineer of another firm where he provided mechanical and electrical engineering design and analysis for commercial construction projects and was responsible for acquiring new projects.

He analyzes systems to determine best value solutions. He evaluates contractor equipment and material submittals as well as conduct on-site review of construction progress and quality.

PERSONAL COMMERCIAL/GOVERNMENTAL PROJECT EXPERIENCE

- General Motors Dealerships; Lewisburg, Charleston & Beckley.
- Toyota Manufacturing Facility; multi-purpose addition containing office spaces, medical treatment area, and weight room.
- Berkeley County EMS; New Facility.
- Buzz Food Processing Facility; New 12,000 sf processing facility includes offices, refrigeration, and abattoir spaces.
- Princeton War Memorial; HVAC Renovations.
- Brickstreet Insurance Headquarters; 86,100 sf renovation.
- Beckley PSD; 3 Water Storage Tanks; Sweeneysburg Water Treatment Plant.
- Shops at Kanawha Plaza; extensive renovation and tenant fit-up project of 195,000 sf shopping center.
- Huntington Museum of Art; HVAC Renovations.
- New Automobile Showrooms; two new showrooms with office and/or repair facilities.
- First Bank of Charleston; New Building.
- Hargis Laundry Facilities; laundry facility renovations.
- Harley Davidson; Store Renovations.
- Shawnee Sports Complex; Six multi-purpose fields and four baseball field complex with amenities.
- Charleston Housing Authority; Lee Terrace Boiler; Jarrett Terrace HVAC; Lee Terrace HVAC; Carroll Terrace Boiler; Little Page Boiler; Washington Manor Boiler; Switzer Center.
- Clay County PSD; Water Storage Tank; Water Treatment Plant.
- Putnam County Courthouse Complex; HVAC Replacement at the Sherriff's Office Building and the Main Courthouse Building.
- Trans Canada; New Control Building.
- Willow I & II and Elk Village Senior Centers; Three new two-story senior apartment buildings in multiple locations.
- Raleigh County Airport; Runway Lighting Upgrade.
- Yeager Airport; Runway & Tarmac Repairs.
- Upshur County Commission; Upshur County Courthouse Addition.
- Huntington Housing Authority; New 50 Unit Apartment Building; Administration Building Renovations.
- Maranatha Fellowship Church; New Annex Building.
- Mount Olive Correctional Facility; Foundation Verification.
- State of West Virginia Bioterrorism Lab; Upgraded existing mechanical and electrical systems to Bioterrorism facility to current federal standards.
- WV Department of Transportation; Kelly Creek Bridge; Marmet Bridge.
- WV Water Development Authority; New Facility.
- Dunbar Housing Authority; Dutch Hollow HVAC Replacement.
- WV Hygienic Lab; HVAC & Electrical Upgrades.
- WV Division of Motor Vehicles; Kanawha City.



PROFESSIONAL REGISTRATIONS

Professional Engineer:

West Virginia

Maryland

Virginia

Kentucky

Ohio

EDUCATION

Bachelor of Science

Mechanical Engineering

WV Institute of Technology

Bachelor of Science

Architectural Engineering Technology

Associates of Science

Mechanical Engineering Technology

Fairmont State College



Vineel is a professional Mechanical Engineer with a Masters Degree in Mechanical Engineering and nearly 5 years experience in HVAC & Refrigeration. Technically sophisticated engineering professional with solid history of effective integration, qualification and deployment of HVAC systems. Significant experience in designing, commissioning and implementing efficient HVAC systems for various commercial, healthcare and educational facilities.

Vineel is knowledgeable on HVAC systems, Heat Transfer, Refrigeration and Thermodynamic specializing in HVAC heating and cooling load calculations, Psychrometric and hydronic analyses and Energy modeling. He has applied that foundation in the manufacturing industry and the commercial industry. Vineel has a comprehensive knowledge of mechanical principles and drafting techniques.

He is experienced hands-on in designing Variable Refrigerant Flow systems, Steam Systems, hydronic systems, Geothermal systems and Building Automation System. He is also proficient in Revit, AutoCAD, IESVE, Navisworks, and Autodesk Recap. Vineel is experienced in utilizing point clouds in the development of Scan to Building Information Modeling (BIM) and performing 3D scanning. Vineel is well-versed in technical specification writings and development of construction drawings. He has hands-on experience in performing Functional Performance Testing in leading Commissioning projects.



PROJECT EXPERIENCE

- St. Marys High School
- New Bluefield Elementary School Commissioning
- Clay County High School Commissioning
- North Fork Elementary School HVAC/Roof Renovations, 3D Scanning, Scan-to-BIM and Commissioning
- Pendleton County Middle/High School HVAC/Roof Renovations, 3D Scanning, Scan-to-BIM and Commissioning
- New 911 Center high performance "Net Zero" facility and Commissioning
- Tyler County Courthouse Additions/Renovations and Commissioning
- Riverside High School HVAC/Lighting Renovations
- Roane General Hospital Commissioning
- Kanawha County Judicial Building Renovations & Commissioning
- New Clendenin Elementary School Commissioning
- Marshall University—Jomie Jazz HVAC Renovations
- Veteran Administration Clarksburg Hospital Mechanical BIM
- Veteran Administration Huntington Hospital Mechanical-Electrical BIM
- WV Capitol Complex Campus Heating System Renovations Buildings #1, #3, #4, #5 and #7 over multiple phases

PROFESSIONAL REGISTRATIONS

Professional Engineer:
West Virginia

EDUCATION

VIT University
Bachelor of Science
in Mechanical Engineering

Southern Illinois University Edwardsville
Master of Science
in Mechanical Engineering

University of Cumberland
Working on PhD in Project Management

AWARDS AND RECOGNITIONS

Certified by ASHRAE in
HVAC Design Essentials & Applications

Paul has 30 years of engineering experience involving the analysis, design, project management, specifications' writing and construction management on many projects throughout the region. This experience includes heating, ventilation, air conditioning (HVAC), plumbing, electrical systems and lighting for governmental, commercial, educational, healthcare, industrial and military facilities. He also has knowledge and experience with indoor environmental quality assessment, recommended remedial work and design of the necessary modifications in various types of buildings.

Paul assisted in the design and implementation of the pilot project for one of the largest geothermal heat pump systems in the mid-Atlantic region. He has also been involved in the design of facilities that have received the Energy Star Certification placing them in the nation's top 25% in energy savings for similar buildings and systems as well as his contribution as part of a large team effort performing mechanical systems' retro-commissioning at numerous automotive manufacturing facilities in North America.

His project experience is wide-ranging and includes the development of scope, design criteria and budget conscious designs. Working with other design professionals and through rapport with the clients he has conducted design peer reviews, construction budget and project schedule overview, Construction Administration and closeout of projects.

K-12 EXPERIENCE - West Virginia's K-12 Public School Districts including Clay, Grant, Jackson, Hardy, Harrison, Kanawha, Marion, McDowell, Mercer, Pleasants, Putnam, Raleigh, Pocahontas, Summers, Taylor, Tucker, Tyler, Upshur, Wyoming, and Webster Counties.

- Clay Elementary School
- HJ Keiser Elementary
- Petersburg High Science Center
- East Hardy High School
- Lumberport Elementary School
- Lumberport Middle School
- Grandview Elementary School
- Piedmont Elementary School
- South Charleston High School
- North Marion High School
- Kimball Elementary School
- New Jaeger Elementary School
- Bluefield High School
- Pocahontas County High School
- Winfield High School
- Woodrow Wilson High School
- New Shady Springs Middle School
- New Trap Hill Middle School
- Park Middle School
- Sophia Soak Elementary School
- St. Marys High School
- Summers County Career Center
- Anna Jarvis Elementary School
- Davis-Thomas Elementary School
- Tucker County High School
- Buckhannon/Upshur High School
- Webster County High School
- Webster Springs Elementary School
- Pineville Elementary School
- Princeton Middle School
- Tyler Consolidated Middle/High School



PROFESSIONAL REGISTRATIONS

Professional Engineer:
West Virginia [REDACTED]

EDUCATION

Bachelor of Science in Mechanical
Engineering from WV Institute of
Technology, Montgomery, WV
(Graduated Cum Laude)

PROFESSIONAL AFFILIATIONS

Member American Society
of Mechanical Engineers

Member ASHRAE

Meher Meka, MSEE, E.I.

Meher is a graduate Electrical Engineer with a Masters Degree in Electrical Engineering and nearly 5 years of experience in Power Distribution & Protection, Lighting design, Lightning protection, Fire Alarm, Communications and Schematics. He also is experienced in plumbing design for educational, commercial and governmental facilities.

He leads solar power applications including WV's first net zero 911 Center involving aggregate net metering where the additional solar power generated at a new 911 Center is credited towards the County's Courthouse. Knowledgeable in High performance building design.

PROJECT EXPERIENCE

- St. Marys High School
- CEA office
- Blennerhassett Island Dock Study
- Coney Island Hot Dogs Central Kitchen
- C.R. Hipp Industrial Warehouse
- Eucalyptus Wellness Company
- Ed Harleys Private Garage
- High Wire Distillery
- Kanawha County Judicial Bldg.
- Jones Trading Upfit office space
- Kimley Horne Charleston Buildout
- HSGS Solar Office Space
- IX Artistry Salon
- JW Aluminum upfit office space
- J McLaughlin Upfit Retail Outlet
- Maple Street Office Building
- North Fork Elementary Retrofit
- Northwood Middle School
- River Oaks Storage
- Riverside High School Renovations
- Orange Theory Fitness, Acworth
- Orange Theory Fitness, Milton GA
- Pack Rat Storage Bees Ferry road
- Pendleton County Middle/High School Renovations
- Sherwin Williams
- South State Bank Renovations
- Steel City Pizza Cranes
- Stella Nova Cigar Factory
- Trimnal Mayers Law office
- Tyler County 911 Center
- Tyler County Courthouse Retrofit
- VA Hospital - Clarksburg
- VA Hospital - Huntington
- WV Capitol Complex Renovations Bldg. #1, #3, #4, #5 and #7
- Airforce Base Clinic
- Canadian Consulate office
- JBL Harman office space



PROFESSIONAL REGISTRATIONS

Engineer in Training (E.I.T)
Fundamentals of Engineering (F.E)

EDUCATION

Bachelor of Technology, Electrical and
Electronics Engineering

UNC Charlotte
Master of Science
Electrical & Computer Engineering

Billy provides design, bidding, construction administration and Commissioning support for mechanical, plumbing, fire protection and electrical systems. His experience encompasses a broad range of Projects including, but not limited to Commercial, Government, Healthcare, Educational and Industrial facilities. Billy also has experience designing multiple building HVAC systems intended to meet high performance criteria, including one that will achieve net zero energy consumption. Knowledgeable with ASHRAE codes and Standards.

Experience includes 3D Scanning, high definition reality capture and Scan-to-BIM which is invaluable for renovation projects and to assist in the development of "Built" conditions in 3D space for Revit. Proficient in Revit, HVAC load programs and air side HVAC equipment selection. Experience in steam heating and distribution systems, hydronic piping/pumping, geothermal, commissioning, custom air handling unit design and HVAC equipment selection and specifications.

Billy is an active ASHRAE professional society member, serving on committee chairs for the WV ASHRAE Chapter. He regularly participates in chapter activities and works to maintain an active continuing education towards today's standards, codes, and technology.



EDUCATION

West Virginia University
Bachelor of Science
in Mechanical Engineering

PROJECT EXPERIENCE

- St. Marys High School HVAC Renovations, 3D Scanning
- North Fork Elementary HVAC/Roof Renovations, Commissioning and 3D Scan-to-BIM
- Pendleton County Middle/High School HVAC/Roof Renovations, Commissioning and 3D Scan-to-BIM
- Historical Tyler County Courthouse Additions/Renovations
- New Tyler County 911 Center, projected Net Zero high performance facility
- WV Capitol Complex Campus Heating System Renovations for Buildings #1, #3, #4, #5 and #7 over multiple phases
- Marshall University, Jomie Jazz Center HVAC Renovations and 3D Scan-to-BIM
- Riverside High School HVAC Renovations including geothermal closed loop HVAC system designed to reduce HVAC Energy by 50% over previous system
- Kanawha County Judicial Building HVAC Renovations, Commissioning, 3D scanning
- Veteran Administration Clarksburg Hospital Mechanical-Electrical BIM

RECOGNITIONS

WVU Valedictorian Scholarship
Promise Scholarship
WVU Honors Program
Presidential Scholarship
WV Engineering,
Science & Tech. Scholarship
WVU Deans list:
Fall 2016, Fall 2017, Spring 2018



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

James Swiger

www.wykarchitects.com > About WYK > Team



James B. Swiger AIA, NCARB, LEED AP BD+C, CHC

President/Principal-In-Charge

WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

304-624-6326 Office

304-677-3373 Cell

304-623-9858 Fax

www.wykarchitects.com

james@wykarchitects.com

Memberships



The American Institute of Architects



He is a Harrison County native involved with several community and professional organizations.

James has gained broad experience in both the private and public sectors of the construction / design industry. His completed work reflects a variety of projects with values ranging from thousands of dollars to over \$22 million.

EDUCATION

5-Year Bachelor of Architecture, 1996
University of Tennessee, Knoxville, TN
NAAB Accredited University

ARCHITECTURAL REGISTRATION

West Virginia (# [REDACTED])
Virginia (# [REDACTED])
Pennsylvania (# [REDACTED])
Ohio (# [REDACTED])
Maryland (# [REDACTED])
Kentucky (# [REDACTED])
National Council of Architects (# [REDACTED])

HONORS AND AWARDS

2021 The Shinnston & Harrison County
Journal "Citizen of the Month" for April

2019 "Sharp Shooter" WV Executive Magazine

2019 AIA-WV Honor Award for Excellence
in Architecture - Historic Preservation /
AIA-WV Craftsmanship Award for Excellence
in Architectural Detail and Craftsmanship;
Robinson Grand PAC, Clarksburg, WV

2015 Clarksburg Uptown Business Member of
the Year

2015 Campaign Chair - United Way of
Harrison County, Inc.

2015 Harrison County Chamber of Commerce
Education Committee Chair

2015 "Young Gun" WV Executive Magazine

2013 AIA-WV Merit Award for Achievement in
Architecture Design - Unbuilt: Shinnston
Community Center, Shinnston, WV

2013 AIA-WV Merit Award for Achievement
in Architecture Design; Fairmont State
University- Frank and Jane Gabor Folklife
Center, Fairmont, WV - Interior and Exterior

Energy Star Certification, Elkins Middle
School, Elkins, WV

2010-11 Cambridge Who's Who Member

2009 West Virginia Kiwanis District Governor's
Award for "Promoting Membership Growth"

2008 Volunteer of the Year - Harrison County
Chamber of Commerce

2008 Selected "Generation Next: 40 Under 40"
by the West Virginia State Journal

2008 Strathmore's Who's Who Worldwide
Recipient

2008 AIA-WV Merit Award for Achievement in
Architecture; West Pike Street Parking Facility,
Clarksburg, WV (Co-Design Architect)

PROFESSIONAL AFFILIATIONS

American Institute of Architects

AIA - West Virginia

National Council of Architectural
Registration Boards

Accredited Professional - U.S. Green Building
Council Building Design + Construction

USGBC-WV Chapter

League of Historic American Theatres

National Trust for Historic Preservation

NFPA - National Fire Protection Association

ASHE - Associate Member of National Society
for Healthcare Engineering

WVSHE - Associate Member of West Virginia
Society for Healthcare Engineering

Affiliate Member of Builders Supply Association
of West Virginia

CIVIC AFFILIATIONS

Health Access, Inc. - Board of Directors

Bi-County Nutrition, Inc. - Board Member

Clarksburg Uptown - President / Board of
Directors

Kiwanis Division 3
2020/2021 Lieutenant Governor

Salem University - Advisory Committee to the
School of Business

Central WV Corvette Club Member

Harrison County Chamber of
Commerce - Board of Directors (2013-15)

United Way of Harrison County, Inc.; Board of
Directors (2009-2016) - Executive Committee
"Stonewall Leadership Contributor"; 2015
Campaign Chair

Kiwanis Club of Clarksburg 2008/2009
President

Kiwanis Division 3
2009/2010 Lieutenant Governor

Kiwanis Club of Clarksburg 2018 - Present
Volunteer and Service Committee Chair

Harrison County Elks Lodge #2875 Member

West Virginia Kiwanis District -
District 3 - Past Lieutenant Governor

Harrison County Chamber of
Commerce - Past Education Committee Chair

Salem Elementary School Nature/Fitness Trail -
Project Manager



WYK ASSOCIATES, INC.
ARCHITECTURE • PLANNING

Team Profiles

Stephen Kelley



Stephen M. Kelley

Associate AIA

Senior Project Manager

Stephen began his employment at WYK in 2007, after working at a previous firm and serving our country in active duty. He served as Senior Project Manager for the award winning Robinson Grand Performing Arts Center and numerous healthcare projects for United Hospital Center (UHC) and WVU Medicine. Stephen's 20 plus years of experience has ranged from small building additions to multi-million dollar, complex construction projects. Stephen has broad experience in both the private and public sectors of the construction / design industry.

EDUCATION

5-Year Bachelor of Architecture, 2000

Philadelphia University

NAAB Accredited University

MILITARY EXPERIENCE

US Army Reserves 1994 - 2006

OIF II 2003 - 2005

PROFESSIONAL AFFILIATIONS

Associate Member, American Institute of Architects (AIA) National Chapter

Associate Member, American Institute of Architects (AIA), West Virginia Chapter

CIVIC AFFILIATIONS

Salem Area Chamber of Commerce - Past Board Member

Harrison County Development Authority - Past Board Member

Fort New Salem Foundation - Current Board Member

Sperry-Davis VFW Post 9151

Post Commander 2020 - Present

Quartermaster 2008 - 2020

Department of WV - District 3

Quartermaster (2015/2016)

Sigma Mu Fraternity Alumni, Mu Pi Chapter

United Way of Harrison County, Inc.

Stonewall Leadership Contributor

WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

304-624-6326

304-623-9858 Fax

www.wykarchitects.com

stephen@wykarchitects.com

Associated Memberships





References

Client Testimonial Letters

References

ZDS has worked on hundreds of projects in West Virginia. We encourage you to call the references listed below:

Mike Pickens, Executive Director, National Council for School Facilities: (304) 400-9993.



Chuck Smith, Kanawha County Schools: (304) 348-6148, or (304) 395-9352.



Gary Boyd, Director of Facility Services, University of Charleston & WVU: (304) 357-4871, garyboyd@ucwv.edu; worked on projects at both WVU and University of Charleston involving MEP systems since 1990's.

Greg Nicholson, Retired COO, WV DHHR: (304) 552-0101, gregcnicholson@suddenlink.net.



Amanda Kimble, Tyler County Schools: (304) 758-2145, akimble@k12.wv.us; for renovations to Tyler Consolidated Middle/High School.



Dale Freeman, Director of Facilities, Roane General Hospital: (304) 927-6345, dafreeman@rghwv.org.



Tyler County Schools

P.O. Box 25
Middlebourne, WV 26149
(304) 758-2145
Fax (304) 758-4566

A. Shane Highley, Superintendent

Linda Hoover, President
Katrina Byers, Vice-President
Dave Roberts, Member
Larry Thomas, Member
P.J. Wells, Member

February 4, 2020

To Whom It May Concern:

This letter is to recognize the outstanding performance of ZDS Design/Consulting Services regarding their team and services rendered to Tyler County Schools. ZDS worked with Tyler County Schools on the Tyler Consolidated Middle/High School HVAC Equipment Replacement Project.

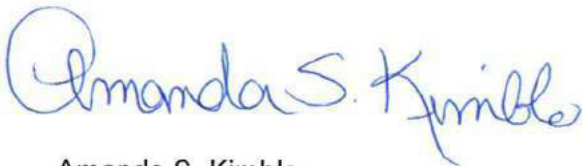
ZDS Design/Consulting Services are to be commended for their patience, diligence, and HVAC engineering expertise with our recent project. The project was complicated with funding and scheduling issues, and ZDS was able to overcome these hurdles and deliver a construction project that had very little issues. Their knowledge of the building systems and project construction administration were key.

From initial project planning, design development, bidding, construction administration, and closeout, ZDS was beside Tyler County Schools to provide any necessary support needed to make this project successful. Their professional team worked closely with our staff to ensure the design accommodated all of the needs for our students and staff.

It has been a pleasure working with the staff at ZDS. I wholeheartedly recommend ZDS Design/Consulting Services for projects similar to the scope of this one.

Please feel free to contact me if you may have any questions or comments.

Sincerely,



Amanda S. Kimble
Director of Support Services and Facilities
Email - akimble@k12.wv.us Office - # 304-758-2145



Michael Pickens

172 Oak Street

Dunbar, WV 25064

(304) 400-9993

RE: ZDS Design/Consulting Services

I have had the privilege to work with ZDS Design/Consulting Services' principals and many of their staff since working at the School Building Authority in the 1990's in my roles at the School Building Authority to my current role as Executive Director of the Office of School Facilities at the West Virginia Department of Education.

When an emergency issue arose, they would immediately make themselves available to help. ZDS's principal, Todd Zachwieja, did not hesitate to board a helicopter during a weekend to help assess the damage to the State's school facilities when damaging floods occurred. Helicopters were the only way to reach many of the facilities because the roads had been washed away or were impassible. Anytime a challenging issue has arisen that no one knew how to resolve, ZDS has stepped up to solve the challenges. Their extensive engineering knowledge of energy efficient systems, HVAC, controls, lighting, power and plumbing systems has always been at the leading edge in the industry, providing innovative solutions that also minimize energy and operating costs. I have always considered their approach in engineering design and commissioning for buildings to be the best and would highly recommend them to anyone.

Their ability to work with the State Fire Marshal and other agencies – while guiding everyone to a practical design approach – always provided each project with the best value. They are much more than excellent design engineers; they also understand the importance of operating and maintaining equipment and have hands-on knowledge to troubleshoot and also commission to ensure our projects were a great success. Their combined engineering design and commission skills prove to be invaluable.

ZDS Design/Consulting Services was also selected to help the WV Department of Education and the School Building Authority in writing new codes and standards to raise the bar for the entire State. They were chosen because their projects were a success while we were having challenges with others. Todd Zachwieja was also asked to teach school facility staff members, and his reference books continue to be used today. I would always think of ZDS first whenever a challenge would occur, knowing I would get the best results possible.

I trust ZDS's staff in their technical expertise and their approach in solving challenging engineering issues and believe that anyone who uses them will be as satisfied as I have been. They are worth it!

Sincerely,

A handwritten signature in blue ink that reads "Michael E. Pickens". The signature is stylized with a large, flowing "M" and a clear "Pickens" at the end.

Michael E. Pickens



ELSWICK & ASSOCIATES, LLC

To Whom It May Concern:

I am distinctly honored to provide this letter of recommendation for ZDS Design/Consulting Services to your organization. I have known ZDS's principals and many of their staff since working with Ted and Todd Zachwieja at West Virginia Institute of Technology located in Montgomery, WV, from the 1970's, while I was the Physical Plant Director there. That relationship continues through today. Their knowledge of energy efficient systems related to Heating, Ventilating, and Air-Conditioning (HVAC), Building Automation Systems (BAS), lighting, power distribution, and plumbing systems has always been at the cutting edge of the industry. They have routinely provided innovative solutions to complex design challenges while minimizing energy and operating costs and enhancing maintenance efficiency. I have always considered their approach to engineering design and commissioning systems first for higher education, hospitals and schools to be superior and I would recommend them to anyone.

Throughout my career I have continued my working relationship with Ted and Todd Zachwieja and Jim Watters while I was Director of Facilities Management at Charleston Area Medical Center (CAMC), General Division, located in Charleston, WV. During that time, they provided mechanical, electrical, and plumbing (MEP), engineering, and construction administration services for all areas of CAMC's facilities. Their knowledge of health care code and practical design approach always provided the uniqueness required for the scope of the work. They understood the importance of operating and maintaining equipment and used their hands-on knowledge to ensure all our projects were on schedule and within budget. As a matter of fact, Todd led the first energy services performance contract in West Virginia. Through Todd's leadership, CAMC saved in excess of \$800,000.00 annually in energy costs and those savings were used for mechanical, electrical, and infrastructure upgrades at all three CAMC divisions. Ted, Todd, and Jim also assisted in many other projects at all CAMC divisions, including commissioning the work implemented as part of the energy savings program. Their combined engineering design and commissioning skills proved to be invaluable.

I also worked with ZDS Design/Consulting Services while I was Director of Facilities, Planning and Management at Washington & Lee University in the 1990's. They designed, acted as the construction project manager and commissioned the campus chilled water plant and distribution system to address the needs of the growing campus while fast tracking the project from start to finish in just nine months. I would always think of ZDS first whenever I was faced with a challenge, knowing that I would get the best technical expertise available.

513 Havana Dr.
Charleston, WV 25311
304.542.8877

Likewise, ZDS helped establish one of the first performance contracting programs in the State of Ohio's higher education system for Ohio University, saving the Athens campus millions annually while the savings were used for the mechanical, electrical and building automation improvements to generate the savings.

I have the utmost confidence in the technical expertise, the collaborative approach and ethical standards of ZDS Design/Consulting Services. Furthermore, these individuals are truly honorable professionals. In this regard, if you have questions or need additional information, please don't hesitate to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Bill Elswick', with a stylized, flowing script.

Bill Elswick, MBA, CEO

Boyd, Gary MA, CFP

2300 MacCorkle Ave. SE | 304 357-4871 | garyboyd@ucwv.edu

To Whom It May Concern

With well earned respect I would like to recommend ZDS as a high quality MEP design firm.

I have had multiple opportunities to work on highly technical projects with Todd Zachwieja and his team of skilled engineers. The first project that I had the opportunity to work with ZDS was a WVU project that connected several older chillers to develop a chilled water loop on the downtown campus. The project included piping through congested areas, load calculations, differential pressure and pump control, and load balancing. This project was designed to become a phased approach to a central chiller plant which is now in operation. The project was efficiently managed and the performance exceeded expectations. As the system changed and older chillers were removed from the loop, Todd always responded to questions and concerns to insure a positive outcome for the overall objective.

At present I am working with ZDS on a University of Charleston project constructing a new Innovation Center and Athletic Complex. ZDS has accommodated many twist and changes to this project. We are on track to open the new facility in December of this year. I have found Todd and his team to be highly responsive and professional.

Sincerely,

A handwritten signature in blue ink that reads "Gary L. Boyd". The signature is fluid and cursive, with the first name "Gary" being the most prominent part.

Boyd, Gary MA, CFP
Director of Facilities
University of Charleston



LEWIS COUNTY SCHOOLS

239 Court Avenue
Weston, West Virginia 26452
Telephone (304) 269-8300
Fax (304) 269-8305

Reference Letter

Superintendent
Dr. Joseph L. Mace

February 4, 2016

Board of Education

Paul Derico, President
Debbie Clem
Sylvia McNeish
Robert Mitchell
Michael Monachello

Mr. James Swiger
President/Principal-In-Charge
WYK Associates, Inc.
205 Washington Avenue
Clarksburg, WV 26301

To Whom It May Concern:

I am writing this letter on behalf of WYK Associates, Inc. and it is my pleasure to recommend Mr. James Swiger and the WYK Associates, Inc. team.

For many years I have worked with the WYK team on multiple projects for Lewis County Schools including the construction of Peterson Central Elementary School and Outdoor Classroom; Roanoke Elementary School; Lewis County High School Bleachers; Lewis County High School Concession Stand; Robert Bland Field House Addition; and security upgrades for the Lewis County Board of Education. Lewis County Schools have greatly benefited from the skills and expertise of WYK Associates, Inc.

James and the team at WYK offer professionalism at its best and I have enjoyed working with them over the years. WYK has always offered sound architectural options while being conscientious of financial constraints. The team at WYK has always been readily available for questions or concerns and has always given Lewis County Schools superior service in a timely manner. Lewis County Schools would welcome the opportunity to work with WYK Associates, Inc. on future projects, and I would strongly recommend them to other School Boards and organizations.

Please do not hesitate to contact me for further information or questions.

Sincerely,

Dr. Joseph Mace, Superintendent
Lewis County Board of Education



February 5, 2016

Reference Letter

To whom it may concern:

I am very pleased to write this letter on behalf of WYK Associates, Inc. of Clarksburg. Our century old school building was in desperate need of additional classroom and office space. We were faced with a sudden increase in enrollment for the upcoming school year for the Pre-Kindergarten class. The Wheeling-Charleston Diocese asked me to contact WYK to explore solutions to utilize the most space within our tight budget and timeframe. The Diocese spoke very highly of WYK as the firm had recently completed a new parish center for our associated church and they also performed other renovations to our school as well as our neighboring Notre Dame High School.

James Swiger and his staff diligently studied our building, exploring every option of gaining Pre-Kindergarten classroom space. Another challenge of the project was the requirement of the Pre-K to be located on the main floor for direct exiting requirements. The ultimate solution was to move the principal's office to the center of the school, utilizing the back of the oversized existing auditorium, under what was once a balcony. This created four new private offices for our administration in addition to a much needed conference room. The old office space was removed, thus expanding the adjacent classroom into that area. This kept the Pre-K on the main floor, made our offices more centrally located and increased visibility and security to all three entrances to the main floor level. They kept insisting they wanted to solve as many design issues within the school as they could while doing this renovation. They did just that!

WYK's staff was very professional, experienced, thorough and timely. They produced a wonderful design that fit within our budget and allowed for minimal disruption to the school. They worked closely with the contractor, which assisted him in completing the work in our shortened summer vacation.

It is without reservation that I highly recommend WYK Associates, Inc. for your project. I can now see why the Diocese asked me to contact WYK to execute this work.

Sincerely,

Nicole A. Folio, M. Ed.
Principal



Reference Letter

To Whom it May Concern,

The Robinson Grand Performing Arts Center is a historic performance and event facility, with roots dating back to initial construction in 1913. For over 100 years, our facility has provided the North Central West Virginia region with arts and entertainment events, along with facility rentals for social gatherings of all types. Throughout the 1980s, 1990s, and early 2000s, the Robinson Grand experienced a decline in business activity and upkeep, which ultimately led to its permanent closure in 2004.

For many years our regional community and the City of Clarksburg had dreams of how this facility could be renovated, preserved, and functionally brought into the 21st century. Those dreams became a reality in 2014, when the City of Clarksburg purchased the facility and partnered with WYK Associates, Inc. in the consulting, planning, and ultimate renovation/construction over the following years.

WYK's outstanding team, under the direction of James Swiger, led our renovation/construction effort through meticulous historical research, numerous site surveys, and a turn-key plan that involved expert consultants. Work began on the facility in early 2017 and was completed by our Grand Opening on October 20, 2018. We have now been in full operation for just over a year and couldn't be more pleased with the outcome of this project.

WYK's scope involved a myriad of aspects and requirements, which provided functionality for the facility, but also allowed our project to receive New Market and Historical tax credits. These items included restoration and preservation of the historical structures, as well as the design of new buildings to seamlessly integrate into our existing facility and complete ADA accessibility. Additionally, mechanical, fire, audio/visual, and automation systems were completely updated. James and his team were here every step of the way, even going above and beyond their contractual obligations to ensure the best design and implementation.



The Robinson Grand was met with much excitement and awe from the regional community upon completion. In addition, the project has received numerous awards. Most recently it won the following:

- 2019 Preservation Alliance of WV Downtown Preservation Award
- 2019 AIAWV Honor Award for Excellence in Architecture & Historic Preservation
- 2019 AIAWV Craftsmanship Award for Excellence in Architectural Detail & Craftsmanship for the brick sculptures in the new West Addition facade
- 2018 Associated Builders and Contractors, Inc. WV Chapter award for Excellence in Construction for Historical Renovation
- 2019 Outstanding Community Impact Award for The Community Affordable Housing Equity Corp. (CAHEC)

I would highly recommend the services of WYK Associates, Inc. for your next project. They are not only skilled and professional, but also provide a personal service that is hard to find at many larger firms. My contact information is listed on the footer below. Please don't hesitate to reach-out to me directly for further information on our beautiful facility or how WYK played an instrumental role in our re-birth.

Sincerely,



Ryan W. Tolley
Executive Director
Robinson Grand Performing Arts Center



Attachments

**State of WV Centralized
Expression of Interest**

**State of WV Purchasing Affidavit
Designated Contact & Certification Form**



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

State of West Virginia
Centralized Expression of Interest
Architect/Engr

Proc Folder: 1050094

Doc Description: EOI: Safety, Security, and Electrical Upgrades at WVSD

Reason for Modification:

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2022-06-24	2022-07-12 13:30	CEOI 0403 DBS2200000001	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: 000000208495

Vendor Name :



Address :

Street : 135 Corporate Center Drive, Suite 532

City : Scott Depot

State : West Virginia

Country : USA

Zip : 25560

Principal Contact : Todd A. Zachwieja

Vendor Contact Phone: 304-755-0075

Extension: 1001

FOR INFORMATION CONTACT THE BUYER

Joseph E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor
Signature X

Todd A. Zachwieja FEIN#

550735995

DATE 07/12/2022

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

ADDITIONAL INFORMATION

The Acquisitions and Contract Administration Section of the Purchasing Division is soliciting Expression(s) of Interest for West Virginia Schools for the Deaf and the Blind from qualified firms to provide architectural/engineering design services, construction bidding documents, and contract administration for various safety, security, and electrical upgrades at multiple buildings located at the West Virginia Schools for the Deaf and the Blind (WVSDB), 301 East Main Street, Romney, WV 26757 per the attached specifications and terms and conditions.

INVOICE TO

DEPARTMENT OF EDUCATION
BLDG 6, RM 700
1900 KANAWHA BLVD E
CHARLESTON WV 25305
US

SHIP TO

DEPARTMENT OF EDUCATION
OFFICE OF SPECIAL EDUCATION
1900 KANAWHA BLVD E, BLDG 6 RM 750
CHARLESTON WV 25305-0330
US

Line	Comm Ln Desc	Qty	Unit Issue
1	Safety, Security, and Electrical Upgrades at WVSDB		

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description:

Safety, Security, and Electrical Upgrades at WVSDB

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
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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: ZDS Design/Consulting Services

Authorized Signature: *Joshua Q. Zechin* Date: 07/12/2022

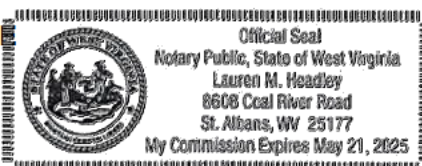
State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 12th day of July, 2022.

My Commission expires May 21, 2025.

AFFIX SEAL HERE



NOTARY PUBLIC

Lauren M. Headley

Purchasing Affidavit (Revised 01/19/2018)

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.

(Name, Title) ZDS Design/Consulting Services

(Printed Name and Title) Todd Zachwieja, CEO, Principal

(Address) 135 Corporate Center Drive, Suite 532, Scott Depot, WV 25560

(Phone Number) / (Fax Number) 304-755-0075, 304-755-0076

(email address) todd.zachwieja@zdsdesign.com

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

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

ZDS Design/Consulting Services

(Company)


(Authorized Signature) (Representative Name, Title)

Todd Zachwieja, CEO, Principal

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

304-755-0075, 304-755-0076

(Phone Number) (Fax Number)

todd.zachwieja@zdsdesign.com

(Email Address)