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Header 1

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General Information [Contact](#) [Default Values](#) [Discount](#) [Document Information](#) [Clarification Request](#)

Procurement Folder: 1420036

SO Doc Code: CEOI

Procurement Type: Central Contract - Fixed Amt

SO Dept: 0211

Vendor ID: 000000208495

SO Doc ID: GSD2400000007

Legal Name: ZDS LIMITED LIABILITY COMPANY

Published Date: 5/24/24

Alias/DBA:

Close Date: 6/6/24

Total Bid: \$0.00

Close Time: 13:30

Response Date: 06/06/2024

Status: Closed

Response Time: 11:09

Solicitation Description: Satellite Buildings Security Systems Upgrades Project

Responded By User ID: Zachwieja

Total of Header Attachments: 1

First Name: Pat

Total of All Attachments: 1

Last Name: Price

Email: pat.price@zdsdesign.com

Phone: 304-755-0075



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: 1420036
Solicitation Description: Satellite Buildings Security Systems Upgrades Project
Proc Type: Central Contract - Fixed Amt

Solicitation Closes	Solicitation Response	Version
2024-06-06 13:30	SR 0211 ESR06062400000007587	1

VENDOR
000000208495
ZDS LIMITED LIABILITY COMPANY

Solicitation Number: CEOI 0211 GSD2400000007
Total Bid: 0
Response Date: 2024-06-06
Response Time: 11:09:17
Comments:

FOR INFORMATION CONTACT THE BUYER
Melissa Pettrey
(304) 558-0094
melissa.k.pettrey@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	Architectural engineering				0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

Commodity Line Comments:

Extended Description:

Building 55 2nd & 5th Flr. Renovations



Expression of Interest to Provide Engineering Design Services

DOA Satellite Buildings Security Systems Upgrades

**June 6, 2024
CEOI GSD2400000007**

MECHANICAL / ELECTRICAL / IAQ / ENERGY / COMMISSIONING

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State of WV Agency Expression of Interest

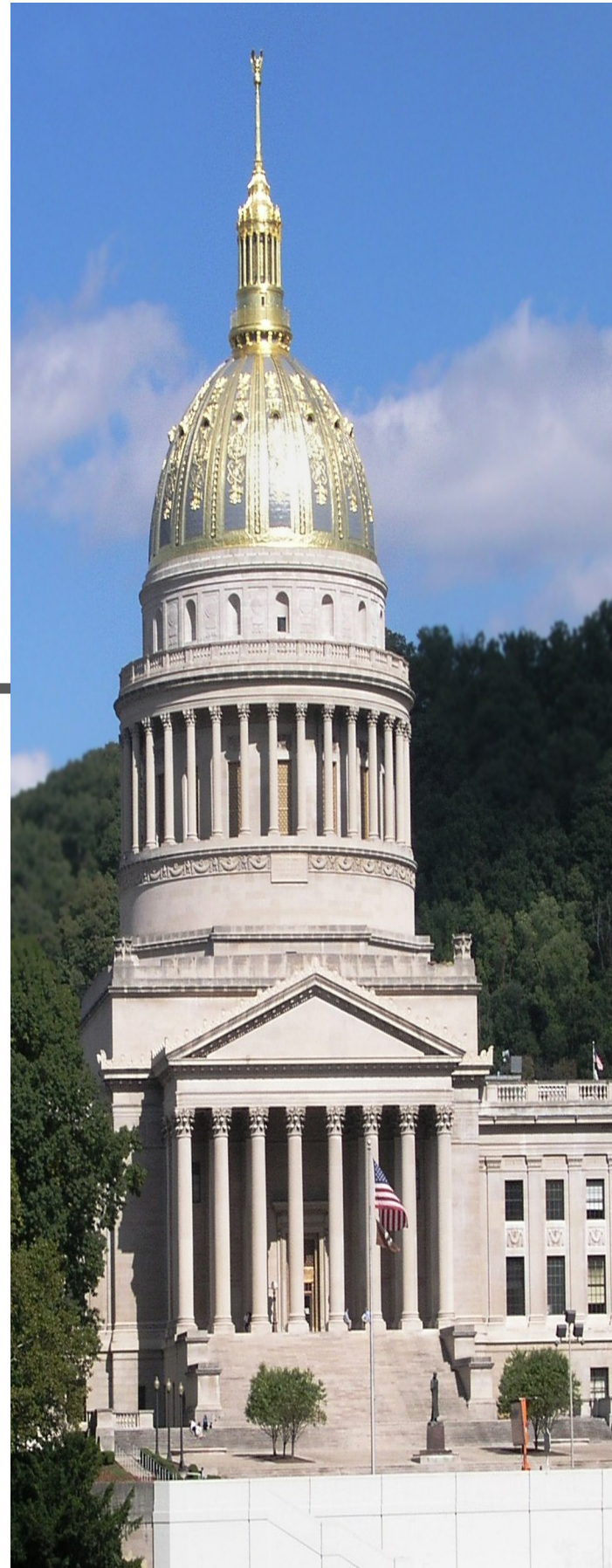
Signature Certification



SECTION I.

Executive Summary Letter

Project Goals & Objectives



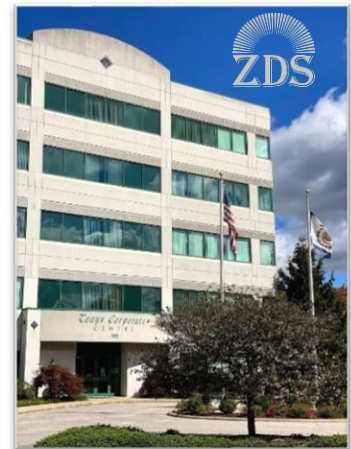
June 6, 2024



WV Department of Administration
Purchasing Division
2019 Washington Street, East
Charleston, WV 25305-0130

Please accept our Expression of Interest to provide Professional Architectural/Engineering Services for the **State of West Virginia Satellite Buildings Security Systems Upgrades**.

ZDS Design/Consulting Services was founded in 1994 and is only minutes from the WV Capitol Complex in Scott Depot, WV and we have engineers working remotely out of Morgantown for easier access to facilities near there. The project will be assigned to **ZDS'** principal-in-charge of planning/design, who will follow the project from inception through Construction Administration and has full authority to execute a binding contract on behalf of **ZDS**:



Todd A. Zachwieja, PE, CEM, LEED AP – Principal, CEO
ZDS Design/Consulting Services

135 Corporate Center Drive, Suite 532, Scott Depot, WV 25560
Office: 304-755-0075; Mobile: 304-545-4550
Todd.Zachwieja@ZDSDesign.com; www.ZDSDesign.com



Ted A. Zachwieja III, PE, CEM, – Principal, Chief Technical Officer
ZDS Design/Consulting Services

135 Corporate Center Drive, Suite 532, Scott Depot, WV 25560
Office: 304-755-0075; Mobile: 304-552-2752
Ted.ZachwiejaIII@ZDSDesign.com; www.ZDSDesign.com

The **ZDS** Team will provide comprehensive professional services for the proposed **Satellite Buildings Security Systems Upgrades**. We have had numerous successful projects, including many on the Capitol complex grounds for the State of West Virginia, WVDHHR facilities, including William R. Sharpe, Jr. Hospital, WVAirNG, WVU, Kanawha County Commission, Tyler County Commission, Pocahontas County Commission, Ohio University, Marshall University, Washington & Lee University, and University of Charleston, as well as cities and counties throughout the state and regionally.

The **ZDS** staff brings exceptional value to security renovation projects through their extensive experience and innovative solutions. Our team of experts combines in-depth knowledge of advanced security systems with a commitment to energy efficiency and sustainability. By integrating state-of-the-art surveillance, access control, and emergency power systems, they ensure that facilities are secure but also resilient and efficient. Their holistic approach to design and implementation, backed by a comprehensive understanding of modern codes and standards, ensures that every project meets the highest safety and performance criteria. This blend of technical expertise, innovative thinking, and a focus on sustainable practices makes **ZDS** a trusted partner in delivering top-tier security renovations.

ZDS has designed and coordinated upgrades for many projects of all sizes, budgets, and schedules. We have been successful on renovation projects through dialogue and proper planning with the Owners and Contractors to phase the work successfully and minimize the impact on the occupants' daily activities.

We will communicate closely with the appropriate personnel in the General Services Division to ensure that our approach to the Project will address their needs and concerns. Realizing the similarity of our mission and the desire to serve West Virginia clients, we will be honored to work with you.

ZDS has previously teamed with several Architectural firms and will utilize their services as necessary for the **Satellite Buildings Security Systems Upgrades**. If hazardous materials are suspected or discovered, we will work with the Owner to assess and resolve any suspected issues, as we have done on previous projects.

Project Goals, Objectives & Approach

GOAL/OBJECTIVE 1: The project's first goal is to assess each building's security systems to determine their exact composition and inventory. The Vendor will be required to provide a written assessment report in which they make recommendations for upgrades and tentative cost estimates for such upgrades.

Within their proposals, Vendors should demonstrate their experience in assessing facilities' existing security systems. Sample reports excerpts may be included, to the extent they demonstrate how the Vendor has approached performing such assessments.

ZDS RESPONSE: We will begin by comprehensively assessing the security systems in each of the four satellite buildings. This will involve on-site investigations and thorough reviews of current system documentation to understand the exact composition and inventory of the security infrastructure.

Due to these systems' nature, security reports are typically confidential. We provided reports for the WV State Capitol Grounds through the WV Division of Protective Services for Buildings #3, #4, #5, #6, and #7, including the complex grounds within GSD's historical documents. We also provided extensive evaluation, design, and bidding for renovations/additions to the Tyler County Courthouse/Jailhouse currently under construction that addressed the same issues requested as part of this project.

1. Detailed Site Surveys:

We will deploy team members of experienced engineering consultants to each building to perform detailed surveys. These surveys will document the current state of the security systems, noting any failures or deficiencies. Our team will use advanced diagnostic tools to test the functionality of cameras, door controls, and access systems.

2. Stakeholder Interviews:

Engaging with building tenants and maintenance staff will be critical to understanding the day-to-day operational issues they face with the current systems. This will include structured interviews and feedback sessions to gather insights on system performance and user needs.

3. Comprehensive Reporting:

ZDS Design will compile a thorough written report for each building after the assessments. These reports will include detailed findings on the current systems, specific recommendations for upgrades, and preliminary opinions of probable construction costs for these upgrades. We will ensure these reports are clear, actionable, and tailored to the agency's needs.

GOAL/OBJECTIVE 2: Based on the findings and recommendations of the initial assessment report, the Agency will require schematic design, design development, construction documents, and procurement phase and contract administration to replace security systems in the aforementioned buildings.

Within their proposals, Vendors should provide documentation of security system upgrade/replacement projects which require the full spectrum of traditional design-bid-build services.

ZDS RESPONSE: We provide the evaluation, schematic design, design development, procurement, and construction administration to meet your goals and objectives as we have for previous projects with the GSD. ZDS has successfully worked with the WV State Purchasing Division to prepare documents to procure competitive bids from potential contractors and provided Construction Administration services through the completion of the projects. Governmental agencies we have experience with include, but are not limited to, the following: WV General Services Division, Kanawha County Commission, Tyler County Commission, Pocahontas County Commission, WV Dept of Education, WVDHHR, WVDNR, WVANG, WVArNG, WV Higher Education Policy Commission, WV Public Service Commission, WV DOH, Dept. of Environmental Protection, US Department of Justice, PJKK Federal Building, many city government agencies, and most WV County Schools systems. Our experienced staff includes senior construction administration who not only have design experience but also construction experience.

Based on the initial assessment reports, ZDS Design will proceed with the schematic design, design development, and preparation of construction documents necessary for the security system upgrades.

1. Schematic Design Phase:

We will develop initial design concepts that align with the recommendations from the assessment reports. This phase will focus on creating a unified vision for the new security systems across all buildings, ensuring consistency and compatibility.

2. Design Development:

During this phase, the initial concepts will be refined into detailed designs. Our engineers and designers will work closely with the agency and stakeholders to finalize the specifications for the new systems, including selecting appropriate manufacturers and technologies that meet the project's requirements.

3. Construction Documentation:

We will prepare comprehensive construction documents, including detailed drawings and specifications. These documents will be used for bidding and construction and ensure that all contractors understand the project requirements.

4. Procurement and Contract Administration:

ZDS Design will assist the agency in the procurement process by helping to select qualified contractors. We will also provide construction administration services to oversee the installation

of the new systems, ensuring they are completed on time, within budget, and to the specified quality standards.

GOAL/OBJECTIVE 3: To plan and design replacement security systems, the Agency anticipates that it will require the successful Vendor to participate in stakeholder meetings so that all interested parties (i.e., tenants in the Agency's buildings) security needs are met.

Within their proposals, Vendors should provide documentation of security system upgrade/replacement projects (preferably those used to document experience for Goal/Objective 2) in which multiple stakeholders had to be engaged.

ZDS RESPONSE: We will compile and review the information gathered to develop options for potential solutions and to help identify any potential impact on other infrastructure within the facilities. Options will be presented to the Agency stakeholders for discussion and to determine the most viable approach before beginning the design process. Our designs incorporate Client-specific standards, and our extensive work in West Virginia, particularly the State Government, gives us an understanding of the codes, standards, and typical state of WV requirements. We have extensive experience preparing specifications manuals, including AIA documents, incorporating applicable statutes and regulations.

We understand the importance of engaging with stakeholders throughout the project to ensure the security systems meet their needs.

1. Regular Stakeholder Meetings:

We will regularly meet with stakeholders, including tenants and agency representatives, to discuss project progress, gather feedback, and address concerns. These meetings will be structured to facilitate open communication and collaborative decision-making.

2. Needs Assessment Workshops:

In addition to regular meetings, we will conduct dedicated workshops to assess the specific security needs of different stakeholder groups. These workshops will help us understand each building's unique requirements and tailor our designs accordingly.

3. Feedback Integration:

The feedback collected from stakeholders will be integrated into the design process. ZDS Design will ensure that the final security systems are user-friendly and meet the operational needs of all tenants.

GOAL/OBJECTIVE 4: The agency's intent is to replace existing systems with a single, open-source security system and open the market for long-term maintenance to more than one vendor.

Within their proposals, specifically the projects documenting meeting Goal/Objective 2, Vendors should indicate what manufacturers' security systems they have recommended and implemented on past projects.

ZDS RESPONSE: To implement an open-source security system, We will focus on selecting technologies and solutions that provide flexibility and long-term value. This can be achieved through many different methods, and our team will review the different options to settle on the best fit for each application.

1. Market Research and Selection:

We will conduct market research to identify the best open-source security systems available. This research will consider scalability, ease of maintenance, and vendor support.

2. System Design and Integration:

Our design team will develop a detailed plan for integrating the new open-source systems into the existing infrastructure. This plan will include specifications for hardware and software, ensuring that all components work seamlessly together.

3. Training and Support:

To ensure the long-term success of the new systems, we will provide comprehensive training for the agency's staff and building tenants. We will also develop a support plan that includes ongoing maintenance and updates, allowing multiple vendors to provide services and ensure competitive pricing.

By following these approaches, We aim to deliver a cohesive, high-quality security system upgrade that meets the agency's goals and enhances the safety and security of the satellite buildings.

ZDS Design/Consulting Services boasts extensive experience in security system replacement, having successfully completed numerous projects prioritizing safety and efficiency. Our portfolio includes designing and implementing sophisticated security upgrades for recent high-profile clients such as the Tyler County Courthouse, Tyler 911 facility, and the Pocahontas County 911/OES/EMS Facility. Our expertise spans installing advanced surveillance systems, access control measures, and comprehensive emergency power solutions. Their projects are characterized by meticulous planning, adherence to the highest industry standards, and a deep understanding of the specific security needs of each facility. The team's ability to integrate cutting-edge technology with reliable, long-term solutions ensures that every project enhances the overall security and functionality of their facilities. This combination of technical proficiency and a client-focused approach makes us a leader in delivering secure, efficient, and sustainable security system replacements.

Our Team will strive to prove we are the best choice to provide professional engineering planning and design services for the **Satellite Buildings Security Systems Upgrades**. Our goal is the Client's satisfaction and knowing that we have addressed their individual needs and distinct requirements. We make every effort to involve the Client throughout the entire process, beginning with identifying the needs and then planning for a long-term solution that is beneficial to the Client.

ZDS has an excellent track record of completing successful projects on time and within budget guidelines. We are ready and willing to start immediately on your project. We are confident that our specialties will provide you with the best expertise to provide economical solutions for your facility. We look forward to discussing our qualifications. If there are any questions, please do not hesitate to call.

Sincerely,



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

SECTION II.

Company Overview



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

- ◆ Charleston Area Medical Center
- ◆ Charleston National Bank/Chase
- ◆ Coal Heritage Discovery Center
- ◆ Concord University Nick J. Rahall II Technology Ctr.
- ◆ District 2 Headquarters' Building HVAC Renovations
- ◆ Tyler County 911 Center - *Net Zero*
- ◆ General Motors North America Operations
- ◆ Harvard University Arboretum Lab
- ◆ Hopemont Hospital, WVDHHR
- ◆ IMC Data Center
- ◆ Jackie Withrow Hospital, WVDHHR
- ◆ Kanawha County Commission Courthouse & Judicial Annex
- ◆ Kanawha County Metro 911
- ◆ Laidley Towers
- ◆ Marshall University Harris Hall & Smith Hall
- ◆ Meadowbrook & Burnsville Rest Areas, WVDOT
- ◆ Mercer County Courthouse
- ◆ Pendleton County Courthouse & Annex
- ◆ Pocahontas County Community Center
- ◆ Pocahontas County EMS 911 Center
- ◆ Robinson Grand Performing Arts Theatre
- ◆ St. Patrick Church Renovations
- ◆ Tyler County Commission Courthouse
- ◆ Tucker County Courthouse
- ◆ University of Charleston Innovation Center
- ◆ Veterans Administration
- ◆ Webster County Development Authority
- ◆ White Sulphur Springs Welcome Center
- ◆ William R. Sharpe, Jr. Hospital, WVDHHR
- ◆ World Trade Center, MD
- ◆ WV Air National Guard
- ◆ WV Army National Guard
- ◆ WV Chief Medical Examiners Office Renovations
- ◆ WV Dept. of Education - State wide PreK-12 Schools
- ◆ WV Division of Energy
- ◆ WV Dept. of Transportation
- ◆ WV Dept. of Health & Human Resources
- ◆ WV Division of Culture and History Renovations
- ◆ WV Division of Protective Services
- ◆ WV General Services Division
- ◆ WV Higher Education Policy Commission
- ◆ WV Parkways Authority HVAC Renovations
- ◆ WVU Health
- ◆ WVU Morgantown Campus
- ◆ WVU Tech (Montgomery Campus) Engineer Bldg.
- ◆ WVDOT Lab

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.

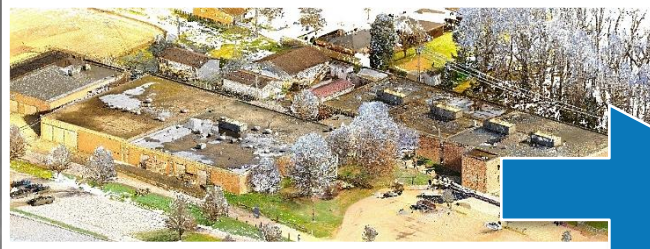
The **ZDS** design team provides a total system evaluation for cost-effective selection, installation, and ease of maintenance for both new systems and retrofit of in-place systems. Design begins with our client. Our staff meets with our client to review their concerns, budgets and schedules. The **ZDS**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

3D Scan to BIM Services

BIM Collaboration

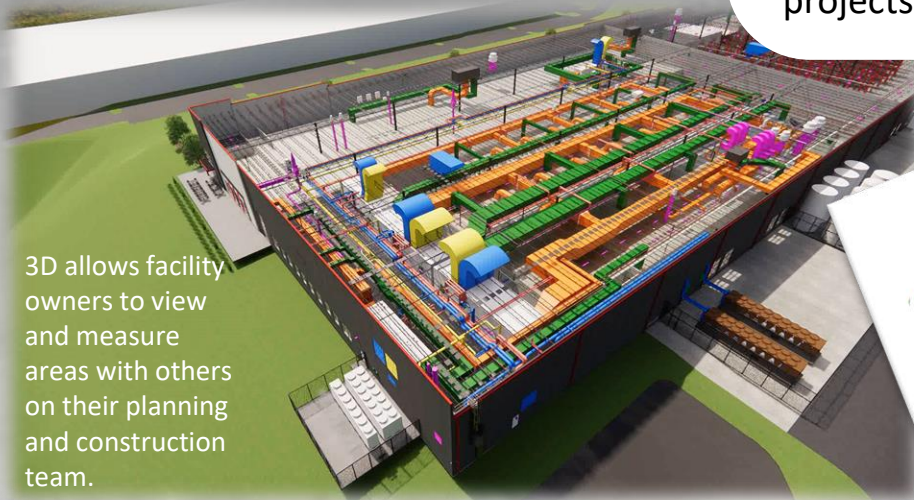


3D Laser
Scanning

Why 3D Laser Scanning is Better

3D laser scans can be beneficial with NEW construction projects by capturing concealed elements during construction before they're concealed. 3D laser scans also provide superior details with data that is more comprehensive.

"With the 3D laser scanning service, ZDS saved me countless hours communicating with all project team members, even those who work or live far away. Also, we now have an accurate record of the existing conditions that we can rely on for future projects." - Retired COO of WV DHHR



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



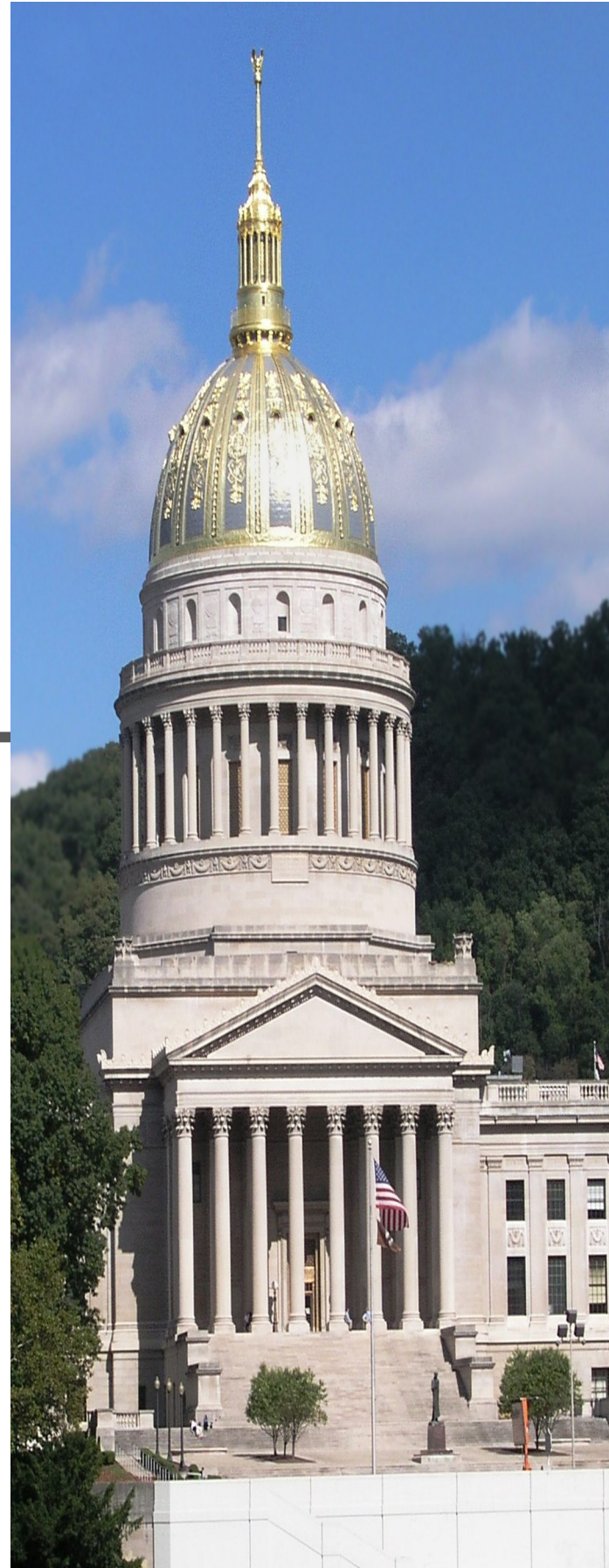
Real-time, anytime, anywhere access with co-authoring ability!
Brings **teams** together for the highest level of collaboration.



SECTION III.

Description of Project Experience

Additional Project Experience
Brochures



Historical Building Projects

ZDS engineering experience includes the West Virginia Capitol Complex buildings that are registered as official Historic Buildings



Governor's Mansion

Engineering planning and 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 volume pumping, steam/heating hot water and chiller optimization.

Renovations included HVAC, fire safety, lighting, plumbing, indoor air quality and electrical power engineering.



Building #3



LEED Certified Candidate

10 year contract to provide a preliminary procurement plan for design, construction and installation of an integrated intercom, emergency notification, and fire alarm system.



Engineering for Courthouse Facilities

Our project experience includes over 100 facilities where security, discretion and public safety are a top priority.

Mercer County Judicial Annex, Princeton, WV



**Kanawha County Judicial Annex
Charleston, WV**



**West Virginia Public Service Commission
Charleston, WV**



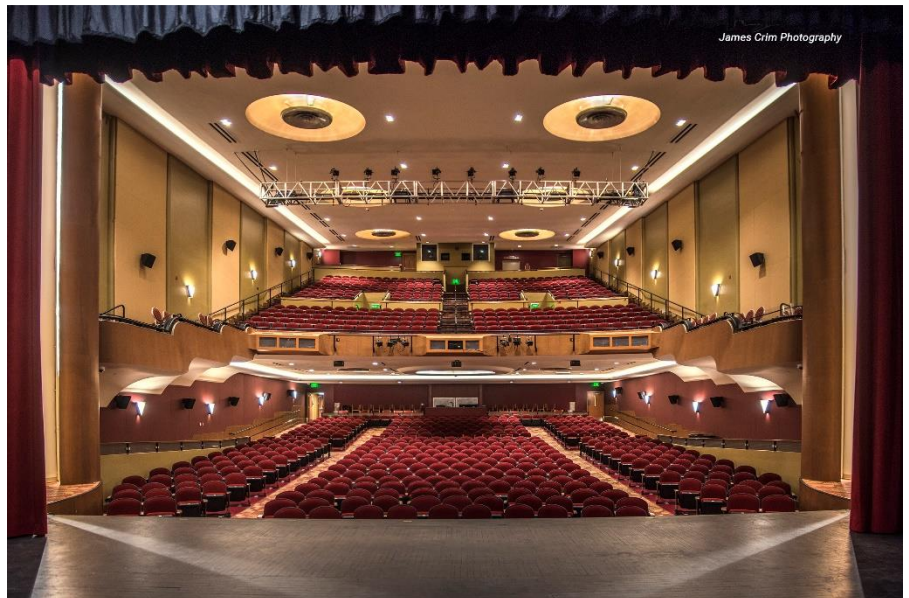
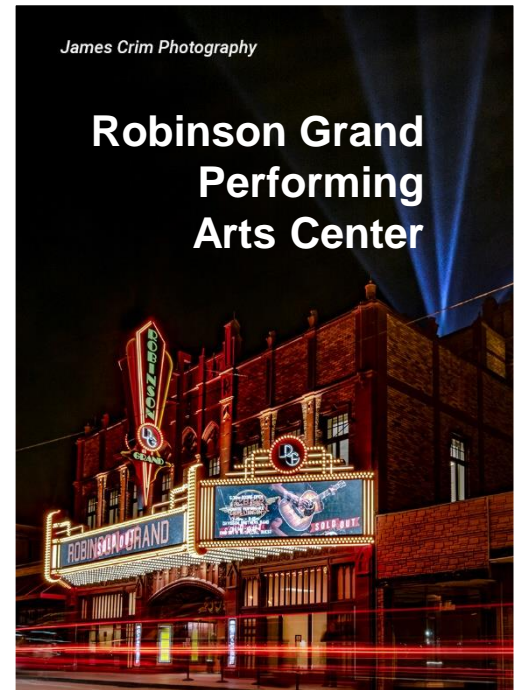
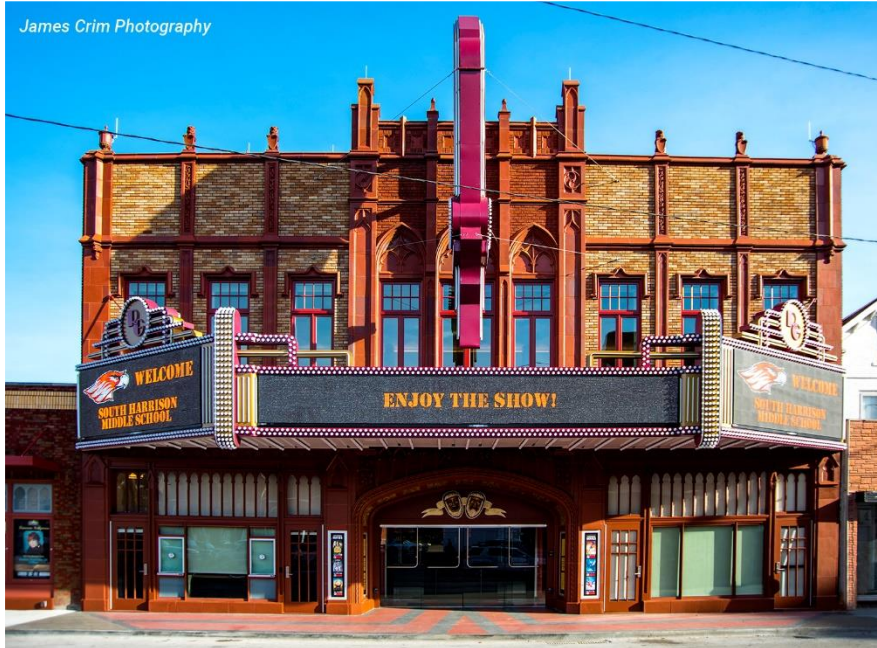
**Tyler County Courthouse
Middlebourne, WV**



**Ronald Reagan Federal Building
Santa Ana, CA**



Engineering for State & Local Government Facilities



Resurrection through adaptive reuse provides neighborhoods and cities with future opportunities through utilizing our heritage and creating economic opportunities. The Robinson Grand Theatre has the capability to bring out the best the city of Clarksburg has to offer.

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



Tyler County 911 Center

Net Zero 911 Center



Services Provided:

- Study/Evaluation
- Mechanical Design
- Fire Protection
- Electrical Renovations
- Security System Design
- Emergency Generator
- Lighting Design
- Plumbing Design
- High Performance Building Design

TYLER COUNTY
WEST VIRGINIA
GOVERNMENT SERVICES



Tyler County 911 Center
NET ZERO High Performance Building

The Tyler County 911 Center's new construction project, spearheaded by ZDS Design/Consulting Services, represents a state-of-the-art initiative to build a highly functional and secure facility from the ground up. This project involves the design and implementation of advanced Mechanical, Electrical, and Plumbing (MEP) systems, with a strong focus on integrating cutting-edge security infrastructure. Key elements include the installation of high-tech surveillance systems, access control measures, and robust emergency power solutions. ZDS's approach ensures that the new systems not only meet current standards but also provide long-term efficiency and sustainability, supporting the 911 center's essential operations. This facility is the 1st NET ZERO 911 facility in the State of WV.

Construction Costs:
Project Size:

\$4,100,000
6,300 ft²



Engineering for State & Local Government Facilities

ZDS engineering project experience includes facilities registered as official Historic Buildings



Jackie Withrow State Hospital



WVDHHR hired ZDS to engineer the upgrades for three historic hospital facilities in three separate locations. ZDS successfully completed the projects while meeting the requirements of the State Historic Preservation Office (SHPO).



Hopemont State Hospital

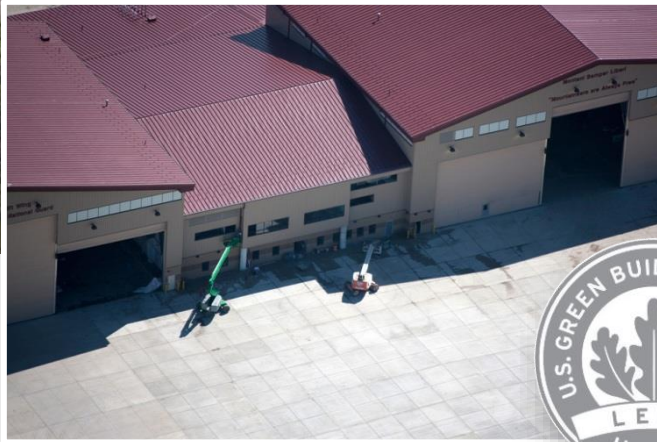


Mildred Mitchell-Bateman State Hospital

Renovations included HVAC, fire safety, energy efficient lighting, plumbing, indoor air quality and electrical power engineering.



Engineering for State & Local Government Facilities



ZDS worked with the West Virginia Air National Guard on the Commissioning for their new Replacement Aircraft Maintenance Hangar and Shops plus a new Fuel Cell Hangar. This facility included a larger maintenance hangar, miscellaneous maintenance shops, central boiler plant and chiller plant. The project successfully achieved LEED Silver Certification with commissioning being an integral part of that certification.

130th Airlift Wing at Yeager Airport,
Phase I and Phase II
Aircraft Maintenance Fuel Systems
Hangars and Shops
Awarded LEED Silver Certification

Construction Costs:	\$43,000,000
Project Size:	128,715 ft²

“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



Kanawha County Commission Judicial Building & Courthouse



“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



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

ZDS has worked with the Kanawha County Commission on various projects since 1998. The most recent involved 3D Scanning, design/commissioning for HVAC & Roof Replacement incorporating air cleaning technology into new energy efficient HVAC system, renovations to the 3rd floor and upgrades to the building smoke control system. All major HVAC equipment and the roof replacement work were completed in 2023 on time and in budget. Other past work includes 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.

Total Judicial Bldg. Project Costs: \$13,807,000
ZDS Team Project Cost: \$6,737,000
Annex Project Size: 118,400 ft² latest projects completed 2023
Client Reference: Mike Moles, 304-357-0103



SECTION IV.

Proposed Team Staffing Plan

Team Certifications
Team Resumes



Team Staffing Plan



West Virginia General Services



ZDS Management Team

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

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



David Cotton, PE, LEED APBD+C
ZDS MEP Project Manager



Jim Watters, Construction
Administrator **ZDS** MEP Design/CA



Mark Estep, PE
ZDS MEP Engineer



Vineel Busa, MSME, PE, ZDS MEP Engineer
Commissioning Engineer

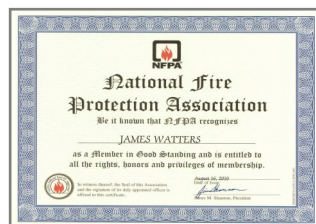
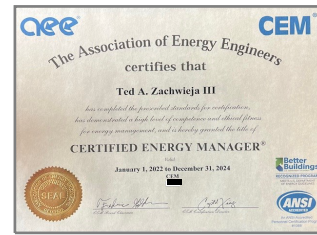
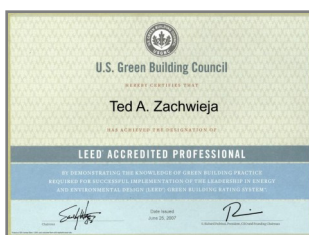
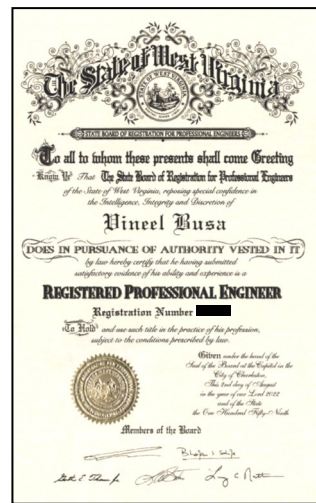
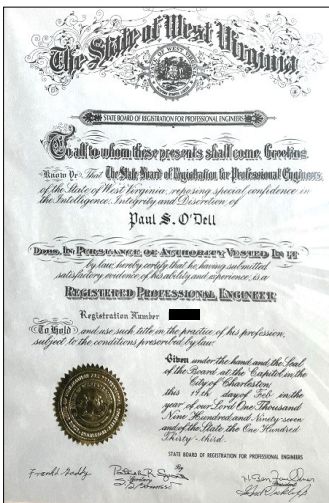
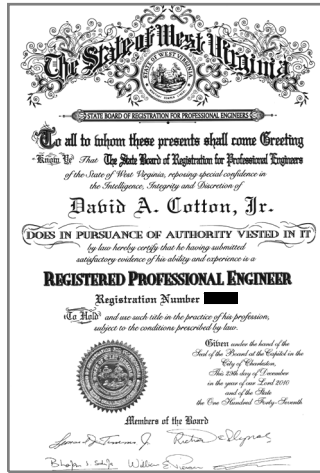
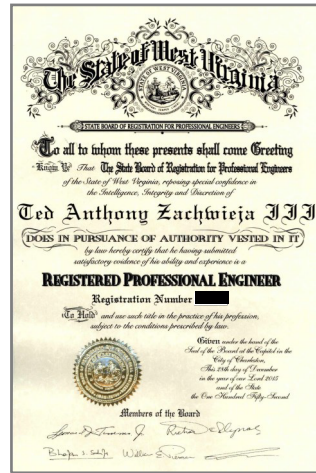
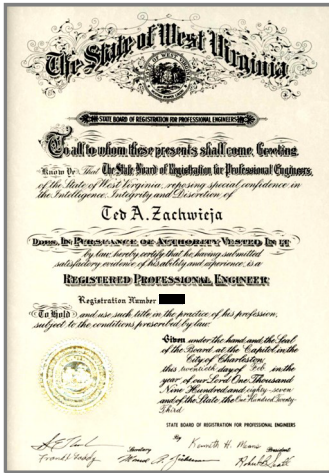


Paul O'Dell, PE
ZDS MEP Engineer
Commissioning Engineer



Meher Meka, MSEE, EI
MEP Designer

Certifications



Todd Zachwieja, PE, CEM, LEED AP



Todd has over 45 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 healthcare clients. He is also recognized as a campus master planner for utility infrastructure providing master planning for the Technology Park in South Charleston and 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, healthcare and industrial structures including high-rise building renovations. Todd designed renovations to many facilities which received **Energy Star Certifications** placing them in the nation's top 25% for energy efficiency. *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 Act which requires buildings use over 50% less energy than buildings designed using ASHRAE 90.1.

GOVERNMENT/COMMERCIAL PROJECT EXPERIENCE

- Bank One/Chase Towers
- Bayer Material Science
- Calvert County Aquatic Center, MD
- Charleston Area Medical Center
- Chief Medical Examiners Office Retrofit
- Culture Center, HVAC & Fire Protection, WV State Capitol Complex
- General Motors Corp. Re-commissioning
- Harvard University Research Laboratory
- Hopemont Hospital, WVDHHR
- Jackie Withrow Hospital, WVDHHR
- Jackson County Courthouse Annex
- Kanawha County Commission: Judicial Annex additions/renovations
- Kanawha County Courthouse
- Kanawha County Schools
- Laidley Towers
- Marshall University
- Mercer County Schools
- Mercer County Courthouse Annex
- Mildred Mitchell Bateman Hospital
- Olin Corporation
- Pocahontas County 911/EMS Center
- Public Service Commission of WV
- Raleigh County Schools
- Rhone-Poulenc
- Roane General Hospital
- Robinson Grand Performing Arts Theatre
- Santa Anna Federal Building, CA
- Tyler County Courthouse
- Tyler County 911 Center - **Net Zero**
- Tyler County Schools
- Toyota Motor Manufacturer, WV Inc.
- UC Davis Veterinary Medicine, CA
- Union Carbide/DOW
- United Center
- University of Charleston Innovation Ctr.
- William R. Sharpe, Jr. Hospital, WVDHHR
- World Trade Center, MD
- WV Air National Guard including Cx Fuel Cell/Maintenance Hangars at Yeager Airport - **LEED Silver Certified**
- WV Army National Guard
- WV Capitol Complex Renovations
- WVDHHR - State-wide Hospitals
- WV DOH Testing Lab
- WV Division of Natural Resources
- WV Division of Protective Services
- WV Higher Education Authority
- WV General Services Division
- WV State Capitol Complex Renovations
- WVU Health System



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

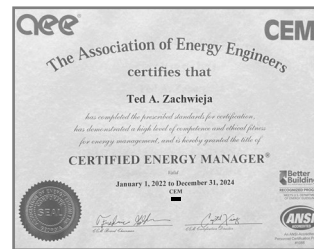
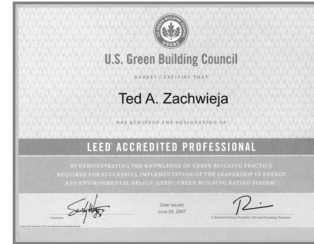
Charter Life Member of the Association of Energy Engineers

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

1st Place 2023 ASHRAE Technology Award, Region VII



Ted Zachwieja III, PE, CEM

Ted, a third generation engineer and Principal in the firm, has over 20 years of experience in building construction design industry that includes award winning designs including the first Net Zero 911 Center in WV and technology awards for design innovation in multiple facilities. Innovation in HVAC, Plumbing, Fire Protection, lighting design/controls, technology, engineering design, communication methods and management of the design process are the areas of his expertise. As a pioneer and a believer in technological processes, Ted has championed Integrated Design Practices and Commissioning that has become the fabric of ZDS's day-to-day operations.

Ted develops ZDS's 3D Scanning and BIM 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, healthcare, industrial, and commercial facilities. He also has experience in speaking on how 3D laser scanning impacts our industry today.

Ted is the Engineer-of-Record for design projects. As Engineer of Record he is responsible for all aspects of the project and takes a hands-on approach to the overall management, design and construction of the project. He works well with all stakeholders involved throughout the entire project lifecycle.

As Chief Technical Officer Ted develops and deploys a strategy of forward thinking and strategic development for ZDS' Integrated Design Processes, research and development into new technologies for improving quality of services for our clients.

Ted's project experience includes design and commissioning for electrical, lighting, security, IT, A/V, heating, ventilating, air conditioning, plumbing, fire protection, and acoustical systems for educational, healthcare, industrial and commercial facilities. His experience encompasses working both on new construction and renovation projects. He also is experienced in historical facilities including theatrical. He has significant experience in designing, commissioning and implementing efficient lighting and HVAC systems for various commercial, healthcare and educational facilities.

Ted maintains an active membership in the ASHRAE professional society and also has a lifetime membership in 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 served on the Electronic Communications Standing Committee with ASHRAE. He has designed renovations to existing facilities which received ***Energy Star Certifications*** placing them in the ***nation's top 25% of energy efficiency*** facilities.



PROFESSIONAL REGISTRATIONS

Professional Engineer:

Florida

West Virginia

Certified Energy Manager (C.E.M.)

National Certificate

No.



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

1st Place 2023 ASHRAE
Technology Award, Region VII
Energy Star Certified for facilities in the
Nation's top 25% of energy efficiency



RELEVANT PROJECT EXPERIENCE

- WV State Capitol Complex Bldgs. 1, 3, 5, 7, 8, & 9 Renovations and #3 & #4 Cx
- Kanawha County Judicial Building Renovations and Cx - **EPAct Qualified**
- Office of Chief Medical Examiners Renovations and Commissioning
- CASCI Building Electrical Renovations, Charleston WV
- WV Air National Guard Maintenance Hangar and Fuel Cell Hangar
- University of Charleston - Virtual Dissection Lab, Innovation Center, Gorman Hall/ Eddie King Gym Renovations campus natural gas, medium voltage and water upgrades.
- Marshall University, Jomie Jazz, Harris Hall, Smith Hall Renovations
- WV Higher Education Policy Commission, S. Charleston Tech Center Master Planning
- Ben Franklin Career Center Renovations - **EPAct Qualified**
- Glade Middle School - **Energy Star Certified**
- Kanawha County Schools - County-Wide includes Master Planning, Renovations
- New laeger Elementary Schools - **Energy Star Certified**
- Pendleton Co Middle/High School, North Fork Elem Renovations - **EPAct Qualified**
- Pocahontas County 911/EMS Center
- Princeton Middle and High School HVAC Renovations - **Energy Star Certified**
- Raleigh County Schools - County-Wide
- WVDHHR Master Planning, Renovations for seven healthcare facilities
- William R. Sharpe, Jr. Hospital Additions/Renovations & Cx - **EPAct Qualified**
- Riverside High School HVAC/Lighting Renovations - **Energy Star Certified**
- Tyler County 911 Center - **Net Zero**
- Tyler County Courthouse Additions, Renovations and Commissioning
- Tyler Consolidated Middle/High School HVAC Renovations - **EPAct Qualified**
- Meadowbrook, Servia, White Sulphur Springs Rest Areas for WV DOT
- World Trade Center, Renovations, MD
- West Virginia University Renovations
- WV DHHR Healthcare Facilities master planning, additions/renovations, lighting renovations - **EPAct Qualified**

Professional Affiliations

Member of ASHRAE WV Chapter
Prior Membership Promotions Chair WV
ASHRAE Chapter
Prior Chapter Secretary WV ASHRAE
Chapter
Lifetime member of the Association of
Energy Engineers
Associate Member WV Society for
Healthcare Engineering



CEM®

OTHER RECOGNITIONS

Presented and co-authored at regional and national conferences

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

1st Place 2014 ASHRAE Technology Award, Region VII

First ASHRAE bEQ certified building in West Virginia, 2015

1st Place 2023 ASHRAE Technology Award, Region VII

ASHRAE Blue Ribbon Award of Excellence

2012 Legend in Energy by the Association of Energy Engineers

2015 ASHRAE Leadership University Recipient



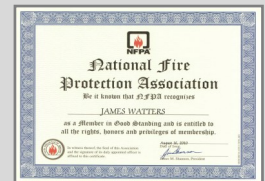
Jim has over 50 years of experience in design and implementation of lighting, HVAC, plumbing and electrical systems including nine years in the construction industry. He has a comprehensive knowledge of construction documents, contracts, and development of cost estimates, budgets and schedules. Jim's 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 hospital campus in Georgia that included the conception, design and construction administration for the installation of a 1.5 Megawatt emergency generator to provide peak shaving/load shedding to save on the campus utility costs as well as provide emergency power to the facility. He has previously provided design and Construction Administration services for a multitude of labs of varying used for Charleston Area Medical Center (CAMC). 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



GOVERNMENT/COMMERCIAL PROJECT EXPERIENCE

- Bluefield Area Transit Authority Administration and Maintenance Facility
- Belmont County Commission Coroner, Records & Health Dept. Facility
- Kentucky Judicial Center, Boyd County
- CAMC Various Labs
- Chief Medical Examiners Office Lodox Renovations
- Coal Heritage Highway Authority
- Chase Towers (formerly Charleston National Bank)
- Culture Center Fire Alarm/Sprinklers, WV State Capitol Complex
- Department of Transportation Rest Area prototype
- Department of Transportation Welcome Center prototype
- Fenway Park Lightning Protection/ Grounding Study, Boston
- Glenville State College
- Hopemont Hospital, WVDHHR
- Jackie Withrow Hospital, WVDHHR
- Jackson County Libraries Renovations
- Kanawha County Commission Judicial Annex Renovations
- Laidley Towers
- Meadowbrook Rest Areas
- Morgantown Welcome Center
- Oglebay Wilson Lodge Renovations
- Pocahontas County 911/EMS Center
- Redmond House, WVDOT
- Rhone-Poulenc New Admin. offices
- Robinson Grand Performing Arts Theatre
- Sacred Heart Pavilion and Daycare Ctr
- St. Patrick's Church
- Shawnee Park Clubhouse
- Stonewall Jackson Marina Renovations
- Tucker County Board Office Boiler Retrofit
- Tucker County Courthouse
- Tyler County Courthouse
- Tyler County 911 Center - **Net Zero**
- University of Charleston Innovation Ctr
- William R. Sharpe, Jr. Hospital, WVDHHR
- World Trade Center, MD
- WV Air National Guard including Cx \$45M Fuel Cell/ Maintenance Hangars at Yeager Airport - **LEED Silver Certified**
- WVArNG Renovations
- WV Children's Home, WVDHHR
- WV Department of Military Affairs, Public Safety Maintenance Facility, Eleanor
- WV Department of Transportation Burnsville Rest Area and Domestic Water Pumping Station - **AIA Merit Award Recipient**
- WV State Capitol Complex Renovations to Buildings 1, 3, 4, 5 & 7
- White Sulphur Springs Welcome Center

David is a professional Mechanical Engineer with over 18 years of experience in the design and construction of over 500 projects having construction values up to \$35 million. His commissioning/design experience ranges from commercial, industrial, institutional, healthcare, education, restaurant, retail, government, airport, and recreational facilities.

David collaborates well with fellow engineers, architects, owners, contractors, code officials and vendors to meet the goals and objectives. As a project manager he successfully manages projects from start to finish in design, bidding, and construction administration.

PROJECT EXPERIENCE

DOAS Systems

- Tyler County Courthouse Additions/Renovations
- Tyler County 911 Center - **Net Zero**
- New Clendenin Elem Commissioning
- Independence Middle HVAC/Roof Renovations and Commission
- Shady Spring Middle School HVAC Renovations & Cx
- Maxwell Hill Elementary School HVAC Renovations & Cx
- Tyler Consolidated MS/HS Renovations and Commissioning
- Boy Scouts of America, Rex W. Tillerson Leadership Center
- Pocahontas County 911/EMS Center
- Saint Marys K-8 School Renovations
- New River Lab Facility
- Mylan Pharmaceuticals
- Fairmont Fire Station
- Westmoreland Community and Technical College, Indiana, PA
- HP Hood Addition/Renovations, Winchester, VA
- WVU Rehabilitation Center
- Mylan Park Aquatic Center
- Belmont County Commission Coroner, Records & Health Dept. Facility
- Clarksburg Comprehensive Care Clinic Renovations
- Jerry Dove Medical Office Building
- Medbrook Building HVAC Replacement
- Beckley Police Station
- Doddridge County Athletic Complex
- White Hall Public Safety Building
- Webster County 911/EMS Center
- Beitzel/Pillar Innovations Office Building
- Percival Hall Absorption Chiller and Cooling Tower Replacement
- Thrasher Engineering Office Building, Bridgeport
- Upshur County 911/EMS Center
- WVU Creative Arts Center Rehearsal Hall
- WVU Towers Dining Hall Renovations
- WVU Athletic Performance Center
- Dominion Office Building, Delmont, PA
- University of Pittsburgh Softball Practice Facility
- WVU Alumni Center
- WVU Biomedical Research Facility
- WVU Milan Puskar Locker Room Renovations

Other Project Experience

- Braxton County 911/EMS Center
- Dominion Office Building - **LEED Gold**
- Mon General Hospital Echo Renovations
- Mon Health LTAC for Acuity
- NOAA GOES-R Supercomputing Center, Fairmont, WV
- WV Capitol Complex Bldg. #3 & #4 Renovations and Commissioning
- Harrison County 911/EMS Center
- Renaissance Academy, Morgantown



PROFESSIONAL REGISTRATIONS

Professional Engineer:

West Virginia ☐

Maryland ☐

Virginia ☐

Ohio ☐

Pennsylvania ☐

LEED AP BD+C Professional Accreditation
NCEES Record Certificate

EDUCATION

Bachelor of Science
Mechanical Engineering
WV Institute of Technology

MEMBERSHIPS

WV ASHRAE, Past President
National Fire Protection Association
WV Society of Healthcare Engineers

Mark has over 33 years of experience and is responsible for the design of commercial, institutional, and industrial mechanical and electrical 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 proposed equipment and materials through submittals as well as conducts on-site progress and quality reviews.

PERSONAL COMMERCIAL/GOVERNMENTAL PROJECT EXPERIENCE

- General Motors Dealerships; Lewisburg, Charleston and Beckley
- Toyota Manufacturing Facility; multi-purpose addition containing office spaces, medical treatment area, and weight room
- Toyota Manufacturing Facility; air handler replacement
- Buzz Food Processing Facility; New 12,000 sf facility includes offices, refrigeration, and abattoir spaces
- Summersville Hospital Operating Room HVAC upgrade
- Princeton War Memorial; HVAC Upgrade
- HIMG Medical Center; 150,000 sf renovation including a new Endoscopy Suite
- Brickstreet Insurance Headquarters; 86,100 sf renovation including elevator upgrade
- Beckley PSD; 3 Water Storage Tanks; Sweeneysburg Water Treatment Plant
- Culloden PSD; Water Storage Tank
- Shops at Kanawha Plaza; extensive renovation and tenant fit-up project of 195,000 sf shopping center
- Huntington Museum of Art; HVAC Renovations
- First Bank of Charleston; New four story building
- Charleston Housing Authority; dedicated outside air unit replacement for Lee Terrace and Carroll Terrace
- Shawnee Sports Complex; Six multi-purpose fields and four baseball field complex with offices, concession stand and other amenities
- Charleston Housing Authority; boiler replacement and HVAC upgrade for Lee Terrace; Jarrett Terrace; Carroll Terrace; Switzer Center
- Clay County PSD; Water Storage Tank; Water Treatment Plant
- Upshur County Commission; Upshur County Courthouse Addition
- Putnam County Courthouse Complex; Sheriff's Office Building and the Main Courthouse Building HVAC upgrades
- Putnam County Schools; surveillance system design
- Willow I & II and Elk Village Senior Centers; Three new two-story senior apartment buildings
- Raleigh County Airport; Runway Lighting Upgrade
- Yeager Airport Construction Administration; Runway and Tarmac Repairs
- Huntington Housing Authority; New 50 Unit Apartment Building; Administration Building Renovations including elevator
- Maranatha Fellowship Church; New Annex Building
- State of West Virginia Bioterrorism Lab; Upgraded existing mechanical and electrical systems to Bioterrorism facility to current federal standards
- Tyler County Courthouse Additions/ Renovations
- Kellys Creek Bridge and Marmet Pony Truss Bridge Replacement
- WV Water Development Authority; New Facility
- WV Hygienic Lab; HVAC & Electrical Upgrades, including rabies, HIV, and TB laboratories
- WV Division of Motor Vehicles; Kanawha City
- Chief Medical Examiners Office Imaging Machine implementation



PROFESSIONAL REGISTRATIONS

Professional Engineer:

West Virginia

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



Paul has 30 plus 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.

GOVERNMENT/COMMERCIAL PROJECT EXPERIENCE

- WVARNG Armory/Annex Bluefield
- WV Capitol Complex Central Bldg. #3 Renovations and Campus Central Boiler Plant
- Bruceton Bank
- Bank One
- Culture Center, WV State Capitol Complex
- Cuissets Residence
- Camp Dawson barrack/mess hall
- DOT Huntington District II Headquarters Renovations
- Yeager Airport Terminal Expansion/Renovation
- DOH Testing Lab
- GMC Assembly Plants in Lordstown OH, Janesville WI, Pontiac East MI, Bowling Green KY, Arlington TX
- Harrison County Bank
- IMC Office Bldg.
- Riverside High School Renovations
- Chief Medical Examiners Lodox CT Scanner Renovations
- Pocahontas County 911/EMS Center
- Kanawha County Commission, Judicial Annex Renovations
- Mercer County Courthouse
- Tyler County Courthouse Additions/Renovations
- Tyler County 911 Center - **NET ZERO**
- Appalachian Tire
- Laidley Towers
- Robinson Grand Performing Arts Theater
- USDA Forestry Building
- University of Charleston Innovation Center Additions/Renovations
- World Trade Center, MD
- William R. Sharpe, Jr. Hospital Additions/Renovations, WVDHHR
- WV Capitol Complex Bldg. #3 Central Boiler Plant Additions/Renovations
- Numerous K-12 School Renovations including Mercer, McDowell, Raleigh, Kanawha, Clay, Grant, Harrison, Marion, Pleasants, Pocahontas, Putnam, Summers, Tyler, Tucker, Upshur, Webster County Schools.



PROFESSIONAL REGISTRATIONS

Professional Engineer:
West Virginia

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

AWARDS AND RECOGNITIONS

1st Place 2023 ASHRAE
Technology Award, Region VII



Vineel is a professional Mechanical Engineer with a Masters Degree in Mechanical Engineering and over 7 years experience in HVAC & Refrigeration. Technically sophisticated engineering professional with solid history of effective integration, 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, Controls, 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 MEP industry, manufacturing industry and the commercial industry. Vineel has a comprehensive knowledge of mechanical systems, principles and applications.

He is experienced hands-on in designing Variable Refrigerant Flow systems, Steam systems, Hydronic systems, Geothermal systems, DOAS and Building Automation systems. 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

- WV Chief Medical Examiners Lodox CT Scanner Renovations, Commissioning
- WV Capitol Complex Campus Heating System Renovations Buildings #1, #3, #4, #5 and #7 over multiple phases
- WV State Capitol Complex Bldg. #3 Renovations & Bldg. #4 Commissioning
- New Belmont Co Commission Coroner, Records & Health Dept. Facility
- Oglebay Wilson Lodge Renovations
- Roane General Hospital Commissioning
- Veteran Administration Clarksburg Hospital & Huntington Hospital
- Kanawha Co. Judicial Building Renovations/Commissioning - **EPAct Qualified**
- Marshall University—Jomie Jazz HVAC Renovations
- New Bluefield Elementary & Timberline Elem School Commissioning
- Clay County High School Commissioning - **EPAct Qualified**
- New Clendenin Elementary Commissioning
- North Fork Elementary School HVAC/Roof Renovations, 3D Scanning, Scan-to-BIM and Commissioning - **EPAct Qualified**
- Pendleton County Middle/High School HVAC/Roof Renovations, 3D Scanning, Scan-to-BIM and Commissioning - **EPAct Qualified**
- New 911 Center high performance **"Net Zero"** facility
- Tyler County Courthouse Additions/Renovations and Commissioning
- Riverside High School HVAC/Lighting Renovations - **Energy Star**
- New Spencer Middle School Commissioning
- New Clendenin Elementary School Commissioning
- WVARNG Brushfork Armory HVAC Renovations - **EPAct Qualified**
- St. Marys High School Renovations
- Raleigh County Schools: 6 Schools - Renovations & Commissioning
- New Pocahontas County 911/EMS Center



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 Cumberlands
Working on PhD in Project Management

AWARDS AND RECOGNITIONS

Certified by ASHRAE in
HVAC Design Essentials & Applications

1st Place 2023 ASHRAE
Technology Award, Region VII

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



Meher Meka, E.I.

Meher is an Electrical Engineering graduate with a Master's in Electrical Engineering specializing in power systems. He has over 10 years of experience designing power distribution systems, power system protection, lighting design, lightning protection, fire alarm, security systems, access controls, technology systems, and communication systems. He also specializes in the design of surveillance, access control, and security systems for government, judicial, 911 facilities.

Meher leads our team in solar power application design. He used his high-performance building knowledge to design and specify the equipment for West Virginia's first net zero 911 facility. The system involved aggregate net metering where the balance of the solar power generated was credited back towards the county courthouse.

PERSONAL PROJECT EXPERIENCE

- WV Capitol Complex Renovations Bldg. #1, #3, #4, #5 and #7
- WVArNG Brushfork Armory Retrofit
- Belmont County Commission Coroner, Records & Health Dept. Facility
- Blennerhassett Island Dock Study
- CEA office
- Coney Island Hot Dogs Central kitchen
- C.R. Hipp Industrial Warehouse
- Eucalyptus Wellness Company
- High Wire Distillery
- Kanawha County Judicial Bldg.
- Kimley Horne Charleston Buildout
- HSGS Solar Office Space
- JW Aluminum Upfit office space
- J McLaughlin Upfit Retail Outlet
- Maple Street Office Building
- Mildred Mitchell Bateman Hospital
- North Fork Elementary Retrofit
- Northwood Middle School
- Raleigh County Schools 4 Schools Renovations
- Oglebay Wilson Lodge Renovations
- Pack Rat Storage Bees Ferry Road
- Pocahontas Co 911/EMS Facility
- Pendleton County Middle/High School Renovations
- Sherwin Williams
- Orange Theory fitness
- South State Bank Renovations
- St. Marys High School
- Steel City Pizza Cranes
- Stella Nova Cigar Factory
- Trimnal Mayers Law office
- Tyler County Middle/High School
- Tyler County 911 Center **Net Zero**
- Tyler County Courthouse Retrofit
- VA Hospital - Clarksburg
- VA Hospital - Huntington
- WVDOT - Servia Rest Area
- Airforce Base Clinic
- Canadian Consulate office
- JBL Harman office space
- West Union WWTP & WTP
- Riverside High School - **Energy Star**



PROFESSIONAL REGISTRATIONS

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

EDUCATION

UNC Charlotte
Bachelor of Technology, Electrical and
Electronics Engineering

Master of Science
Electrical Engineering

AWARDS AND RECOGNITIONS

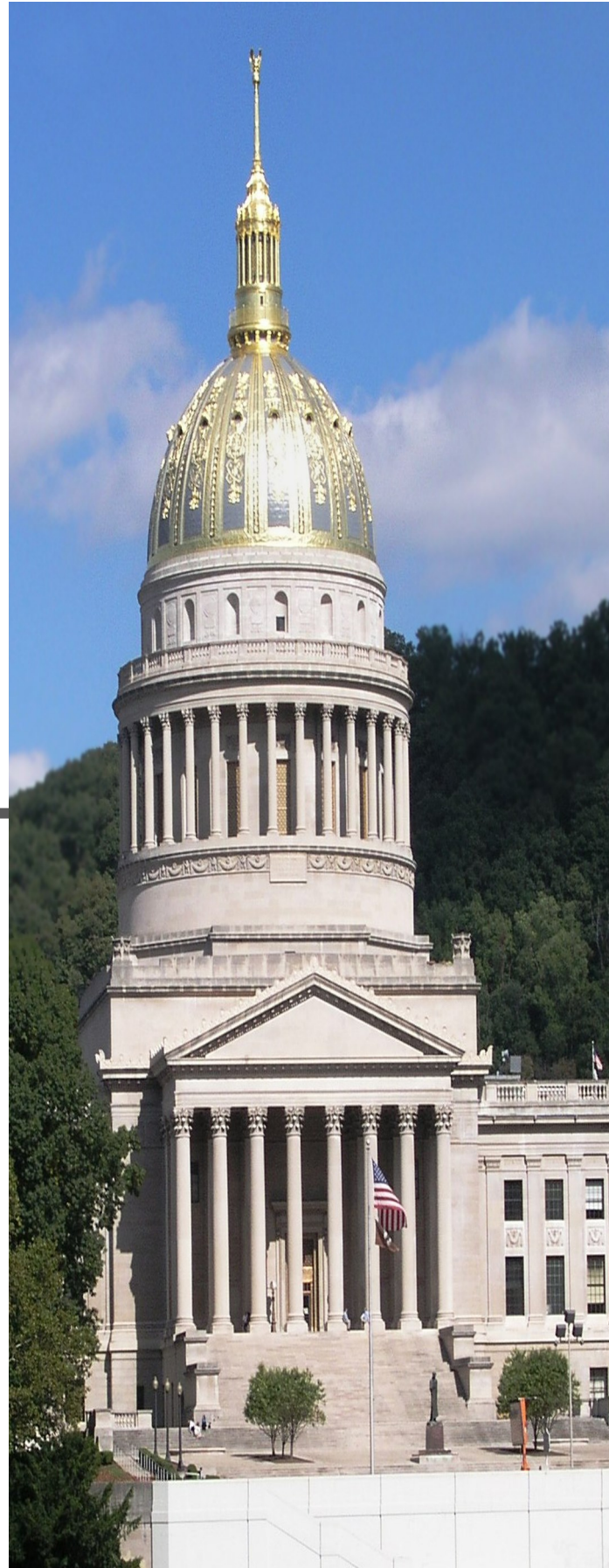


Energy Star Certified for
facilities in the Nation's top
25% of energy efficiency

SECTION V.

References

Client Testimonial Letters



References

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

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 the 1990s.



Michael O'Brien, Director, Pocahontas County Homeland Security & Emergency Management: (304) 799-3985, mobrien@pocahontasemergency.com



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



Greg Nicholson, Retired COO, WVDHHR: (304) 552-0101, gregnicholson@suddenlink.net.



Ron Adkins, Director of Construction, WVDHHR, (304) 957-0205 or (304) 634-9379. Former Construction Manager for WVANG and the current Construction Mgr. for many projects with WVDHHR.



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



Mike Moles, Maintenance Director, Kanawha County Commission: (304) 533-7888



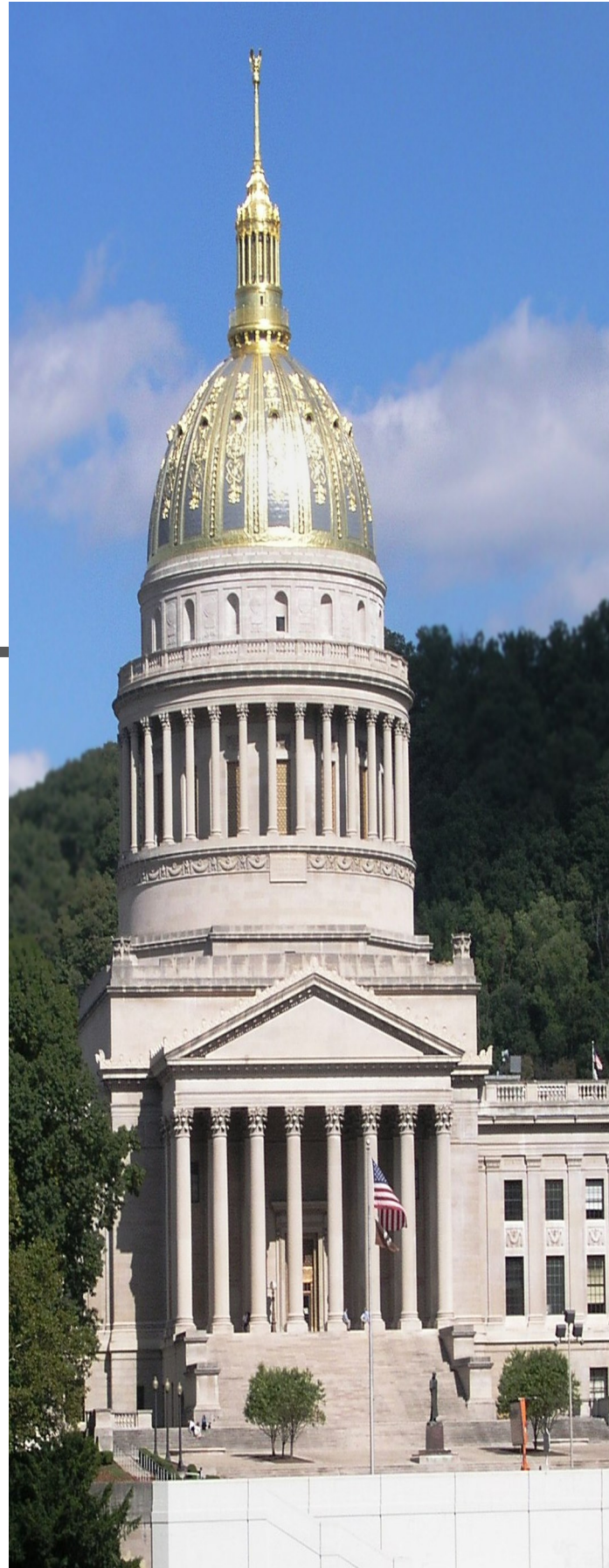
James Swiger, President of WYK Associates: (304) 624-6326, james@wykarchitects.com

SECTION VI.

Attachments

State of WV Agency Expression of Interest

Signature Certification





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: 1420036			Reason for Modification:
Doc Description: Satellite Buildings Security Systems Upgrades Project			
Proc Type: Central Contract - Fixed Amt			
Date Issued	Solicitation Closes	Solicitation No	Version
2024-04-26	2024-06-06 13:30	CEOI 0211 GSD2400000007	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code:

Vendor Name : ZDS Design Consulting Services

Address : 135 Corporate Center Drive

Street : Suite 532

City : Scott Depot

State : WV **Country :** USA **Zip :** 25560

Principal Contact : Ted A. (Todd) Zachwieja

Vendor Contact Phone: (304) 755-0075 **Extension:** 1001

FOR INFORMATION CONTACT THE BUYER

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

**Vendor
Signature X**

Ted A. Zachwieja

FEIN# 550735995

DATE June 5, 2024

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

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Ted A. Zachwieja, Principal, CEO

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

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

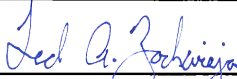
(email address) Todd.Zachwieja@zdsdesign.com

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 this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

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

ZDS Design Consulting Services

(Company)



(Signature of Authorized Representative)

Ted A. Zachwieja, Principal, CEO

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

(304) 755-0075 (304) 755-0076

(Phone Number) (Fax Number)

Todd.Zachwieja@zdsdesign.com

(Email Address)



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: 1420036			Reason for Modification: Addendum No. 1
Doc Description: Satellite Buildings Security Systems Upgrades Project			
Proc Type: Central Contract - Fixed Amt			
Date Issued	Solicitation Closes	Solicitation No	Version
2024-05-24	2024-06-06 13:30	CEOI 0211 GSD2400000007	2

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code:

Vendor Name : ZDS Design Consulting Services

Address : 135 Corporate Center Drive, Suite 532

Street :

City : Scott Depot

State : WV **Country :** USA **Zip :** 25560

Principal Contact : Ted A. (Todd) Zachwieja

Vendor Contact Phone: (304) 755-0075 **Extension:** 1001

FOR INFORMATION CONTACT THE BUYER

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

Vendor
Signature X

FEIN# 550735995

DATE June 6, 2024

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

ADDITIONAL INFORMATION

Addendum No. 1 is issued to publish and distribute the attached information to the vendor community.

Expression of Interest

The Acquisitions and Contract Administration Section of the Purchasing Division ("Purchasing Division") is soliciting Expression(s) of Interest ("EOI" or "Bids") for The Department of Administration, General Services Division ("Agency"), from qualified firms to provide architectural/engineering services ("Vendors") to provide security consulting services to assess, plan, design and administer construction and implementation of security systems upgrades in several buildings owned and operated by the Agency in "satellite" locations in Clarksburg, Fairmont, Logan and Weirton, WV, per the bid requirements, specifications and terms and conditions as attached hereto.

INVOICE TO	SHIP TO
DEPARTMENT OF ADMINISTRATION GENERAL SERVICES DIVISION 103 MICHIGAN AVENUE CHARLESTON WV 25305 US	DEPARTMENT OF ADMINISTRATION GENERAL SERVICES DIVISION BLDG 55 130 STRATTON ST LOGAN WV 25601 US

Line	Comm Ln Desc	Qty	Unit Issue
1	Architectural engineering		

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description:
Building 55 2nd & 5th Flr. Renovations

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
-------------	--------------	-------------------

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:

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

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

Addendum Numbers Received:

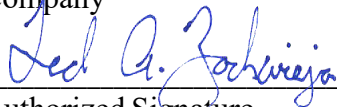
(Check the box next to each addendum received)

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

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

ZDS Design Consulting Services

Company



Authorized Signature

June 6, 2024

Date

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