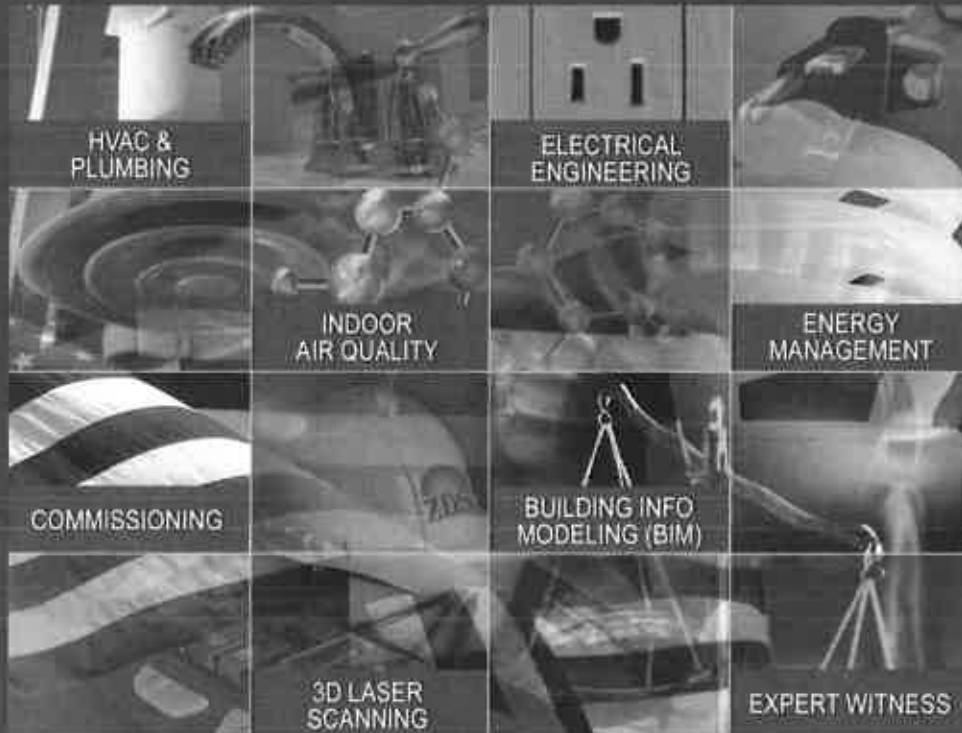


STATE OF WEST VIRGINIA PURCHASING DIVISION

EXPRESSION OF INTEREST FOR THE: BUILDING 22 SERVER & CHECK SCANNER ROOMS HVAC RENOVATIONS

CEOI: 0211 GSD1700000002
DECEMBER 20, 2016 AT 1:30 PM




Design/Consulting Services

WWW.ZDSDESIGN.COM

12/20/16 10:45:37
WV Purchasing Division

STATE OF WEST VIRGINIA - PURCHASING DIVISION

BUILDING 22 SERVER & CHECK SCANNER ROOMS HVAC RENOVATIONS

CEOI: 0211 GSD1700000002

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STATE OF WEST VIRGINIA - PURCHASING DIVISION

BUILDING 22 SERVER & CHECK SCANNER ROOMS HVAC RENOVATIONS

CEOI: 0211 GSD1700000002

SECTION I.

EXECUTIVE SUMMARY LETTER PROPOSED PROJECT SCHEDULE ORGANIZATION CHART



Design/Consulting Services
281 Smiley Drive
St. Albans, WV 25177
Phone: (304) 755-0075
Fax: (304) 755-0076
www.ZDSDesign.com



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

December 20, 2016

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

Re: Expression of Interest to provide Professional Engineering Services for the Building 22 Server and Check Scanner Rooms HVAC Renovations

Please accept our Expression of Interest to provide Professional Engineering Services and related work for the *HVAC Renovations for Building 22*.

ZDS Design/Consulting Services was founded in 1994 and is located at 281 Smiley Drive, St. Albans, WV 25177. Website: www.ZDSDesign.com.

ZDS founding members have over five decades of MEP engineering experience in West Virginia providing us a local understanding of your needs. We have extensive renovation experience, including phasing construction, to reduce potential disruptions. Our approach is different than the traditional role as we have actual operational experience and can design/commission the Mechanical systems. By commissioning the systems, we fine-tune them to actual conditions and assist the Owner's personnel after occupancy to improve comfort, provide training and reduce operating costs.

ZDS developed the master planning, evaluation and/or design for the WVDHHR William R. Sharpe, Jr. Hospital, University of Charleston Innovation Center, Kanawha County Judicial Annex, Kanawha County Courthouse, Laidley Towers, Chase Towers, West Virginia Capitol Complex, Culture Center, Mercer County Courthouse Annex and many others. We offer experienced MEP engineering services in West Virginia and have provided design and commissioning services on many State facilities.

ZDS is the only MEP engineering firm in West Virginia to design and receive the EPA's Energy Star® Certification for three (3) facilities in West Virginia. Each of these buildings HVAC systems performs in the top 25 percent of similar facilities nationwide for energy efficiency while meeting stringent ASHRAE standards such as ASHRAE 62.1 Ventilation for Acceptable Indoor Air Quality, IES lighting levels and ASHRAE standard 55 on Thermal Comfort. We met the facility requirements while providing a very energy efficient HVAC, lighting and power system.

ZDS' experience involves hundreds of projects including working with many state and federal agencies. Our professionals are dedicated to performing quality services taking into account our clients' needs, scheduling and budgets. Refer to Section II for a brief description of **ZDS' Organization and Services.**

Refer to **Section III** for more details on related project experience. **ZDS** has extensive experience in renovation projects. We are recognized for our specialties in mechanical design, electrical design, indoor air quality services, energy conservation/performance contracting and commissioning services for Governmental, Commercial, Educational, and Health Care facilities. We work in 24 states but our home and corporate offices are in St. Albans, West Virginia.

Approach: Our approach to this Project will generally follow the guidelines proposed by the Agency in the solicitation for EOI using a two phased approach.

Building 22 has added equipment over time that impacted the HVAC system and occupant comfort. Data equipment adds heat to space year round that needs to be addressed in the HVAC system. We have successfully designed solutions for many Data Centers and renovated many facilities to maintain comfort that has issues similar to Building 22. We will evaluate the facility to understand how the existing systems perform and determine the changes necessary to meet the project goals. Our designs have included entire facilities dedicated to data centers so we have the experience and background to address this project. We will utilize the existing HVAC systems where possible while determining the most cost effective solutions during the study phase.

Phase 1 Study/Report: Once the Notice-To-Proceed is received, we will request copies of any existing documentation available for our review and use in preparing a report to the Agency. We will perform a thorough field investigation of the facility and specifically in the areas of concern to better understand the existing HVAC and Electrical systems and the potential impact on any remedial solutions. We will analyze and compile the information received/found to determine potential solutions to review with the Owner. We will prepare a budgetary cost estimate based on the recommendations; submit and review the final report with the Agency for decisions/direction. Refer to the attached Gantt Chart showing a preliminary project schedule for completing the study/report which can be modified to fit the project needs.

Phase 2 Design/Bid/CA: We will begin the engineering design process starting based on the approved direction. Cost estimates will be updated, and shared, at each milestone leading up to issuing the Bidding documents. The final Construction Documents will be reviewed with Agency personnel for approval before issuing for bids. **ZDS** will be available for assistance during Bidding and Negotiations and will provide full Construction Administration services throughout the construction process. Our offices are only minutes away from GSA and Building 22 which allows excellent attention to the project and Owner's needs.

Refer to the Organization chart following this letter and **Section IV** of this document for our Professional Qualifications with detailed resumes. **ZDS Design/Consulting Services** has registered professionals that can effectively execute the requirements of MEP projects and believe that our experience with HVAC systems, Electrical systems, Energy Management, Planning and Codes compliance make us the most qualified to work on your facilities. We continue to have an excellent working relationship with the West Virginia State Fire Marshal and other agencies within the State of West Virginia. Below is a partial listing of the proposed **ZDS'** staff for this Project.

Ted (Todd) A. Zachwieja, ZDS Principal-in-Charge, BSME, MSEM, P.E., CEM, LEED AP with over 38 years of experience in MEP design, energy management, IAQ and commissioning. *Nationally recognized for expertise in HVAC/IAQ. Received "Legend in Energy" by AEE in 2007/2008. Guest Speaker at National System Commissioning Conference.*

Ted A. Zachwieja III, ZDS BIM Manager/Systems Administrator, BSME, P.E., CEM and 2012 Legend-in-Energy Award, specializes in 3D MEP design/scanning and IT systems administration with ZDS for over 14 years.

Jennings L. Davis II, ZDS Project Manager/Associate, BSME, P.E. with over 25 years of experience specializing in MEP design, Construction Administration and commissioning.

Jim Watters, ZDS Production Manager/Associate, with nearly 40 years of experience in mechanical, electrical and plumbing design/commissioning and Construction Administration.

Paul O'Dell, ZDS Senior Engineer, BSME, P.E. with over 21 years of experience in mechanical, electrical and plumbing design/commissioning and Construction Administration.

ZDS personnel have worked on hundreds of projects in West Virginia including many with Governmental agencies. We encourage you to call the references listed below, as well as Mr. Rudy Raynes of the West Virginia State Fire Marshal's office to establish how well we worked with their staff, our technical strengths and our ability to work with contractors to provide a quality project.

1. Mr. Mike Pickens, Executive Director, West Virginia Department of Education, 1900 Kanawha Blvd. East, Bldg. 6, Room 215, Charleston, WV 25305 (304) 558-2711, mepicken@k12.wv.us. Involved with dozens of MEP projects in West Virginia since the 1990's.
2. Mr. Ron Adkins, former Project Manager for WV Air National Guard projects (304) 634-9379, currently Construction Manager for WVDHHR, One Davis Square, Suite 100, Room 103, Charleston, WV 25301, ron.adkins@wv.gov. Construction Manager for multiple addition and renovations projects for William R. Sharpe, Jr. Hospital, Weston, WV including support for other DHHR facilities since 2011.
3. Mr. Greg Nicholson, Retired Chief Operations Officer, WVDHHR, Charleston, WV (304) 552-0101, gregnicholson@suddenlink.net Involved with seven hospitals consisting of multiple projects at each facility.
4. Mr. David Sneed, Executive Director of SBA, (304) 558-2541, david.a.sneed@wv.gov. Involved with dozens of MEP projects in West Virginia since 1990's.
5. Mr. Gary Boyd, Director of Facility Services, University of Charleston, 2300 MacCorkle Avenue S. E., Charleston, WV 25304 (304) 357-4871, garyboyd@ucwv.edu. Worked on projects at both WVU and UC involving MEP systems since 1990's.

ZDS has an excellent track record of completing projects on time and in budget and we are ready and willing to start on your project. We feel confident that our specialties will provide you with the best expertise to provide economical solutions for your facilities and 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

STATE OF WEST VIRGINIA - BUILDING 22 HVAC RENOVATIONS

Proposed Project Schedule - Following Receipt of Contract/Notice To Proceed

#	TASKS	DURATION (REGULAR BUSINESS DAYS)																													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	Review existing documentation																														
2	Field investigation																														
3	Analysis of information																														
4	Compile findings/information																														
5	Options to resolve issues/Cost estimates																														
6	Prepare, submit and review final report with Agency																														
7	Bidding/Construction Documents - TBD Based on Scope																														
8	Bidding and Negotiations - TBD Based on Scope																														
9	Construction Process - TBD Based on Scope																														
10	Closeout of Project - TBD Based on Scope																														

**State of West Virginia
Department of Administration**

Jessica S. Chambers
Buyer, Purchasing Division

**General Services Division
Tax & Revenue**

Ted (Todd) A. Zachwieja
PE, CEM, LEED AP
ZDS Principal-in-Charge

Ted A. Zachwieja III, PE, CEM
ZDS BIM Manager
& MEP Engineer

Jennings L. Davis II, PE
ZDS Project Manager

James E. Watters
ZDS Production Manager

Paul S. O'Dell, PE
ZDS Sr. Engineer



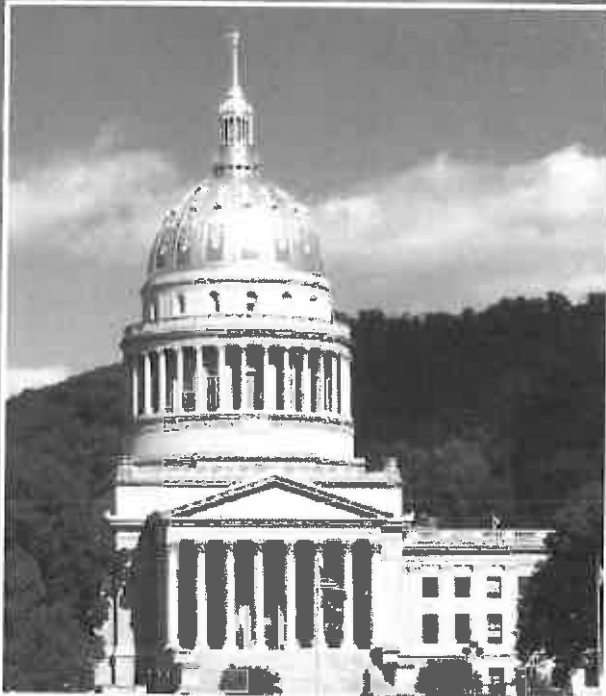
STATE OF WEST VIRGINIA - PURCHASING DIVISION

BUILDING 22 SERVER & CHECK SCANNER ROOMS HVAC RENOVATIONS

CEOI: 0211 GSD1700000002

SECTION II.

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.

OFFICE

281 Smiley Drive, St. Albans, WV 25177

EMPLOYEES

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

CLIENTS

- Charleston Area Medical Center
- Charleston National Bank/Chase
- Concord University Nick J. Rahall II Technology Center
- District 2 Headquarters' Building HVAC Renovations
- General Motors North America Operations
- Harvard University Arboretum
- IMC Data Center, WV
- Kanawha County Commission Courthouse/Judicial Annex Renovations/Additions
- Laidley Towers, Charleston, WV
- Marshall University: Harris Hall & Smith Hall
- Meadowbrook & Burnsville Rest Areas
- Mercer County Courthouse
- Pocahontas Community Center
- St. Patrick Church Renovations, WV
- Tucker County Courthouse
- University of Charleston
- Veterans Administration
- Webster County Development Authority
- Webster County Schools
- White Sulphur Springs Welcome Center
- WV Air National Guard
- WV Army National Guard
- WV Dept. of Education
- 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 Administration – Capitol Complex
- WV Higher Education Policy Commission
- WV Parkways Authority HVAC Renovations
- West Virginia University

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 Zachwiejs, ZDS Principal, is contributing editor for the following IAQ publications:

- Technical Review Panel for the publication of the *Environment™ 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 *Environment™ 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 *Environment™ 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

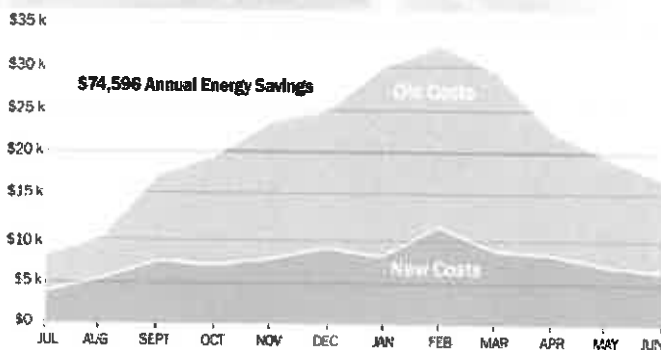
As one of the nation's leaders in Indoor Air Quality (IAQ), ZDS provides sophisticated technical expertise that enables our client to be proactive in solving and preventing indoor environmental problems.



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.



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.

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



1st Place 2014
ASHRAE
Technology
Award



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

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 operational needs.

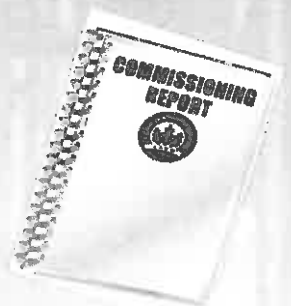
The commissioning process offers the following benefits:

- 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.



STATE OF WEST VIRGINIA - PURCHASING DIVISION

BUILDING 22 SERVER & CHECK SCANNER ROOMS HVAC RENOVATIONS

CEOI: 0211 GSD1700000002

SECTION III.

PROJECT EXPERIENCE

University of Charleston

The Russell and Martha Wehrle Innovation Center



ZDS evaluated the University of Charleston's existing Eddie King Gym and adjacent Gorman Hall Mechanical and Electrical systems' infrastructure while using 3D scanning to capture "built conditions". The evaluation findings and recommendations were presented to UC prior to beginning the design phase of the proposed Project for decisions on phasing the project since the needs exceeded available current funds. The Project consisted of major renovations to the Gym to meet NCAA competition requirements, interconnection/reconnection of MEP systems impacting the Gorman Hall facility and a 30,000 SF addition to the front of the facility that, when completed, will be known as the Russell and Martha Wehrle Innovation Center. 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 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.

Gary Boyd, Director of Facilities Services
University of Charleston
(304) 357-4871

Construction Cost:
\$15,500,000



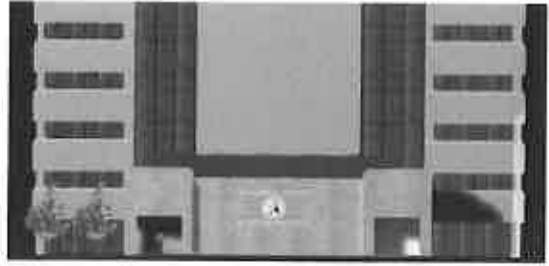
Design/Consulting Services

www.zdsdesign.com

ZDS COMMERCIAL/GOVERNMENT PROJECT EXPERIENCE

Description:

ZDS[®] provided engineering services for the renovation of the 93,000 ft² Annex and the 23,000 ft² courthouse addition. Examples of some of the rooms and offices of the Annex include those for circuit courts, jury deliberation, attorney conferencing, witnessing, court clerical staff, public research, adult probation, prosecuting, maintenance, voting registration, court administration and all public areas. The engineering for the additions included a new entrance, security checkpoint, and lobby to alleviate a very overcrowded situation and a building expansion for Juvenile Probation and a newly established Family Court. ZDS designed a VAV air handling system with reheat to address health, safety, and IAQ issues by increasing outdoor ventilation air rates, higher filtration, strict humidity control, DDC monitoring/control, carbon monoxide demand control ventilation, outside air measuring/monitoring and other design strategies. All HVAC equipment was designed with full DDC controls for remote monitoring and energy efficiency.



Project Costs:

Total Cost \$10,270,000; Mechanical Cost \$3,200,000

Size:

Renovations 93,000 ft² plus 23,000 ft² addition

Contact:

Ms. Jerie Whitehead, Director (304) 357-0115

Project Name:

The Museum of Culture and History – HVAC Renovations

Location:

Charleston, WV

Description:

Lack of humidity control damaged many of the State's priceless artifacts. Books and other state collections were deteriorating rapidly due to lack of proper control of temperature, humidity and filtration. The occupants had also experienced allergic reactions and discomfort from the long-term high humidity conditions. ZDS identified the problem areas and designed the solutions, which included converting an all-electric resistance heating system to natural gas, comprehensive DDC controls for central monitoring and control, converting AHUs from constant air volume to variable air volume while meeting stringent ASHRAE Indoor Air Quality requirements, providing variable water volume pumping and interfacing with the facility into the new District campus chilled water system to reduce long-term operating costs. The design also included providing a new boiler plant with redundant heating and piping distribution system and an emergency generator to help protect the State's priceless collections.



Project Costs:

\$6,000,000; Reduced HVAC Operating Costs up to an estimated 50%

Size:

228,500 ft²

Contact:

Mark Lynch, Director of Facility Operations (304) 558-0220

Engineering for State & Local Government Facilities

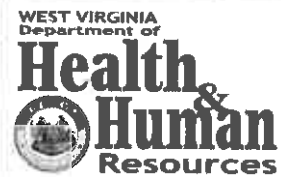
ZDS engineering project experience includes facilities registered as official Historic Buildings



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).

**Contact: WVDHHR,
Kris Wilcoxon (304) 893-8199**



Hopemont State Hospital



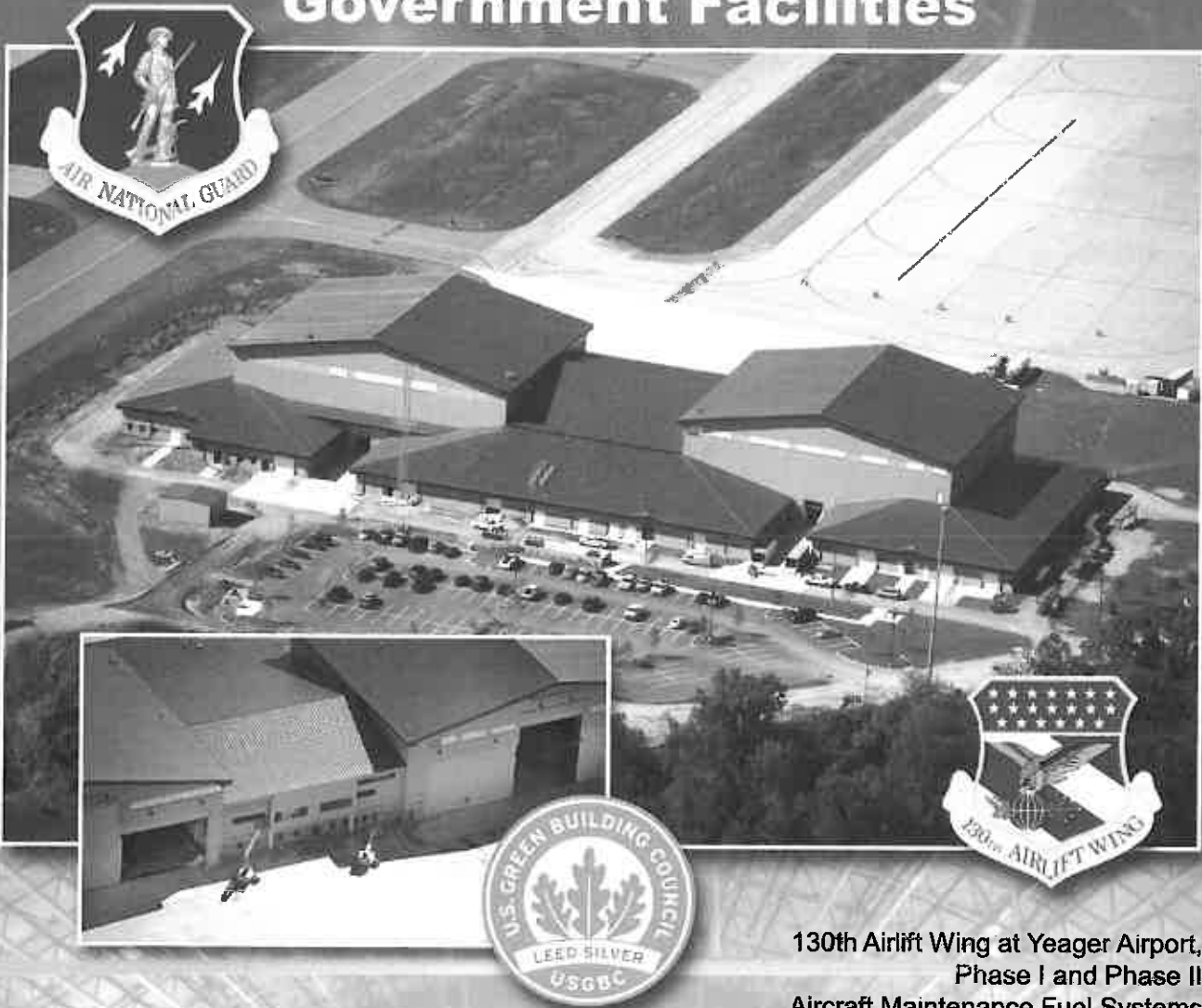
Mildred Mitchell-Bateman State Hospital

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



Design/Consulting Services

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.

"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 (304) 341-6649

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

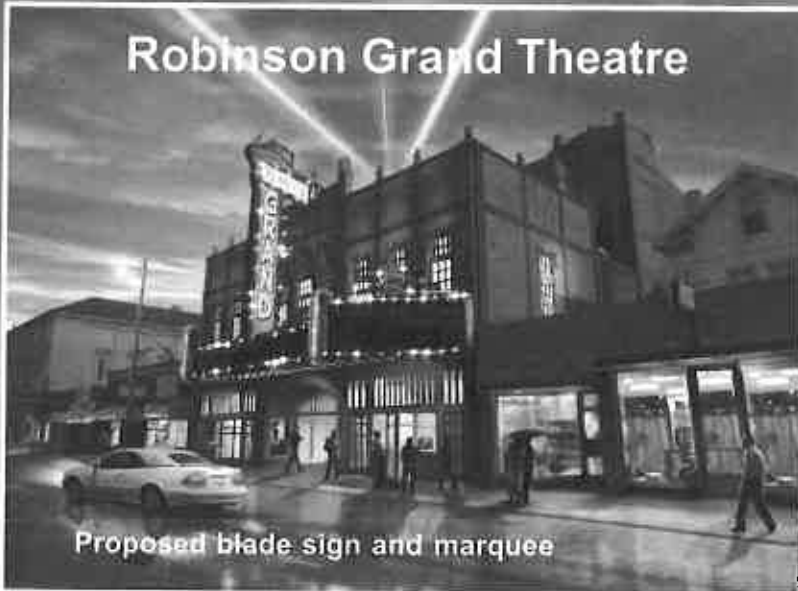
Construction Costs: \$43,000,000
Project Size: 128,715 ft²



Design/Consulting Services

Engineering for State & Local Government Facilities

Robinson Grand Theatre



Proposed blade sign and marquee

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.

Proposed bar area



Proposed seating from stage



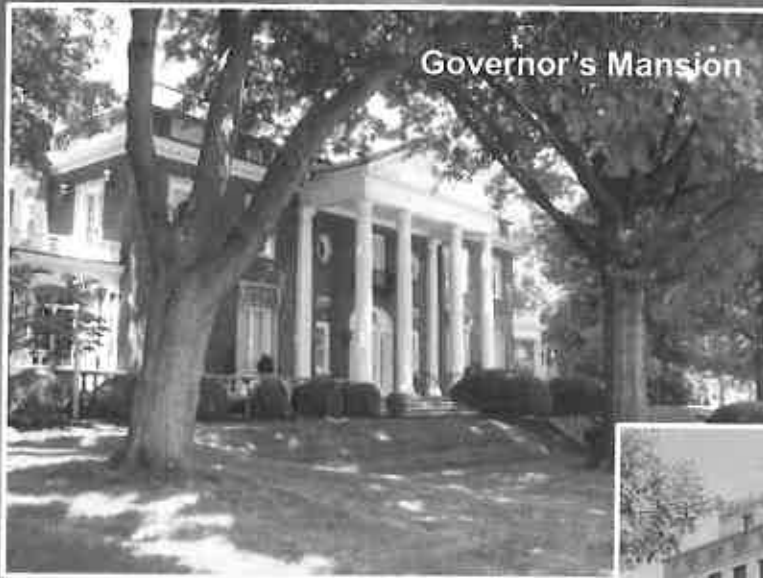
Proposed ballroom and VIP Lounge

Contact: WYK Associates, Inc.,
James Swiger (304) 624-6326



Design/Consulting Services

Engineering for State & Local Government Facilities



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



State Capitol

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



LEED Certified Candidate



Design/Consulting Services



IMC Data Operations Center

An AIA Awarded facility with sustainable features including geothermal energy.

**Concord University
Nick J. Rahall
Technology Center**



An intensive evaluation showed the benefits of constructing a new 50,000 ft² facility attached to an existing structure.



The \$375,000 electrical upgrades included a Campus Medium Voltage Loop which also provided an uninterruptible power supply needed for the new technology center where all of the University's internet and intranet systems resided.



Design/Consulting Services

BIM - 3D Digital Imaging

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



3D Laser Scanning



Data points of building exterior

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.”

Greg Nicholson, DHHR Chief Operations Officer



Web Share:

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



BIM - 3D Digital Imaging

"The 3D laser imaging improves quality, saves time and money while providing a valuable resource now and into the future."

DHHR



3D Laser Scanning

"The 3D laser scans safely document hard-to-reach interior areas — this greatly reduces our risk for liability.

Also, the excellent details of the laser scans convert to accurate construction drawings, both architectural and engineering."

DHHR Director of Construction & Project Management



Data points of building interior



3D Engineering Drawing:
Sample of 3D mechanical drawing converted from 3D laser scan data points.

Web Share: Helps construction team members integrate existing conditions into BIM models.



STATE OF WEST VIRGINIA - PURCHASING DIVISION

BUILDING 22 SERVER & CHECK SCANNER ROOMS HVAC RENOVATIONS

CEOI: 0211 GSD1700000002

SECTION IV.
TEAM RESUMES



PROFESSIONAL REGISTRATIONS

Professional Engineer:

Florida

Georgia

Kentucky

Maryland

North Carolina

Ohio

Pennsylvania

South Carolina

Virginia

West Virginia

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

- Fire Investigation Certification under the direction of Peter Vallas, Sr.
- Certified Energy Manager (C.E.M.) National Certification No. 2205
- LEED Accredited Professional, National Certification through USGBC No. 10083891

ZDS
Design/Consulting Services

www.zdsdesign.com

Ted (Todd) A. Zachwieja, P.E., CEM, LEED AP

CEO, Principal-in-Charge M/E/P/FP Design and Commissioning

Todd has over 38 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 including 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 and mechanical engineering at numerous automotive facilities in North America. He has been involved with many commercial structures including high-rise commercial building renovations. Todd designed renovation to multiple old West Virginia 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 EPart which requires buildings use over 50% less energy than buildings designed using ASHRAE 90.1.

GOVERNMENT/COMMERCIAL EXPERIENCE

- Bank One, WV
- Bayer Material Science, WV
- Calvert County Aquatic Center, MD
- Culture Center HVAC, Fire Protection renovations
- General Motors Corp. Re-commissioning
- Kanawha County Commission. 120,000 sq additions/renovations for the Judicial Annex/Kanawha County Courthouse
- Kohl's
- Laidley Towers - Charleston
- Mercer County Courthouse Annex
- Olin Corporation
- Phillip Morris USA
- Rhone-Poulenc
- Santa Anna Federal Building, CA
- WV Capitol Complex Central Heating Plant Renovations
- Sears
- Toyota Motor Manufacturer, WV Inc.
- Union Carbide/DOW
- United Center - Charleston
- Walker Machinery
- WV Air National Guard including Ex \$45M Fuel Cell/ Maintenance Hangars at Yeager Airport for LEED Silver
- WV Army National Guard
- WV Department of Transportation/DOH
- WV Division of Protective Services
- WV Higher Education Authority
- WV General Services Division
- WV Public Service Commission Headquarters
- WV State Capitol Complex renovations
- Yeager Airport



Ted Zachwieja III, P.E., CEM

Chief Technical Officer

PROFESSIONAL REGISTRATIONS

Professional Engineer:

Florida: [REDACTED]

West Virginia: [REDACTED]

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

Ted has over 14 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 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.

GOVERNMENT/COMMERCIAL EXPERIENCE

- WV Air National Guard Maintenance Hangar and Fuel Cell Hangar, Charleston, WV
– **LEED Silver Certified**
- Bayer Material Science
- Catholic Church of Ascension Parish Hall Renovations
- Coal Heritage Trails Center Renovations
- Kanawha County Judicial Annex HVAC Renovation
- Meadowbrook Rest Areas
- I-70 Welcome Center
- Casci Building, Charleston WV
- Morgantown Welcome Center
- Pocahontas County Community Center
- Robinson Grand Theatre
- Servia Rest Areas
- Stonewall Jackson Marina
- WV Parkways Authority
– Toll Booth Plazas
- WV State Capital Complex Central Heating Plant
- White Sulfur Springs Rest Area

ZDS
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www.zdsdesign.com



PROFESSIONAL REGISTRATIONS

Professional Engineer:

Maryland [REDACTED]

Pennsylvania [REDACTED]

Virginia [REDACTED]

West Virginia [REDACTED]

EDUCATION

Bachelor of Science in Mechanical Engineering from West Virginia University

AWARDS AND RECOGNITIONS

- Selected to assist in training of Code officials and the design community on the new ASHRAE 90.1-2007 State Energy Code adopted by West Virginia in 2013
- LEED Silver Certified WVANG Fuel Cell/Maintenance Hangar

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www.zdsdesign.com

Jennings L. Davis II, P.E.

Associate - Project Manager

Senior Mechanical & Commissioning Engineer

Jennings has over 25 years of experience as an engineer involving the design, project management and construction management of heating, ventilating and air conditioning (HVAC), plumbing, fire protection, electrical, lighting and specialized systems for health care, institutional and commercial facilities. His experience also includes indoor environmental quality analysis, building system commissioning and forensic engineering.

Prior to joining ZDS, Jennings' professional experience included working as an Owner's Representative at West Virginia University (WVU) in the positions of Staff Engineer and Construction Project Manager, and as a Mechanical Engineer for the West Virginia Department of Education (WVDE).

During his employment at WVU, Jennings was responsible for management of major repair and capital construction projects and in-house design of smaller projects. While working for the WVDE, he was responsible for quality control of design documents for various school system construction projects throughout the state of West Virginia; troubleshooting issues related to HVAC systems and Indoor Air Quality (IAQ); re-commissioning of HVAC systems to original design parameters; recommendations for HVAC operational and energy savings procedures; and training of county school systems' maintenance personnel. He performed annual investigations of facilities concentrating primarily on HVAC operation and occupant safety. Tasks included IAQ measurements such as temperature, humidity and carbon dioxide; HVAC equipment visual inspection; life safety assessment; and building component checks.

As a Project Engineer, Jennings specializes in developing scope, budget and design parameters; establishing program requirements through interaction with Owners and other Team members; design reviews; budget analysis and control; schedule control; complete design oversight and task assignment; construction administration and project closeout.

GOVERNMENT/COMMERCIAL EXPERIENCE

- WV Air National Guard including commissioning for recent \$45M Fuel Cell Maintenance Hangars at Yeager Airport for **LEED Silver Certified**
- WV Public Broadcasting Station HVAC design for transmitter station
- Federal Government Facility Cafeteria and Food Court Renovations, Electrical Vault Renovations
- VA Medical Center: VAMC Clarksburg - WV: 4th Floor Renovations / VAMC Coatesville - PA: New Hospice Facility / VAMC Huntington - WV: Mental Health-Psychiatric Residential Rehabilitation Treatment Program (MH PR RTP) Addition and Renovations / VAMC Philadelphia - PA: Renovations to Canteen, Dental Lab, Emergency Department and Patient Processing, Home Health Suite, Medical Records, MRI, CT Scan, Angio Suite, and Specialty Clinic; OR Suite HVAC System Upgrades; Chiller and Cooling Tower Replacements; New Patient Transport Elevator; Clean Steam System for Facility Wide Humidification
- WV Department of Health and Human Resources, Jackie Withrow Hospital, Beckley: Master Planning Study, new central steam plant and renovations to heating and lighting systems / Hopemont State Hospital, Terra Alta: Master Planning Study, renovations to heating and lighting systems / John Manchin, Sr. Health Care Center, Fairmont: Master Planning Study, renovations to heating and lighting systems / Lakin State Hospital, West Columbia: Master Planning Study and exterior envelope renovations and lighting systems / Mildred Mitchell-Bateman Hospital, Huntington: Master Planning Study and lighting renovations / Welch Community Hospital, Welch: Master Planning Study and lighting renovations / William R. Sharpe, Jr. Hospital, Weston: 50 bed forensic addition and renovations to entire existing hospital including new central heating/cooling plant, 1,800 KW emergency power station and comprehensive HVAC and electrical renovations throughout the facility.



James E. Watters

Associate - Production Manager

PROFESSIONAL AFFILIATIONS

- Member of Investigative Engineers Association (I-ENG-A) of the Tri-State Region
- Member of the National Fire Protection Association (NFPA)
- Past Member of the Health Care Section of the NFPA
- 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 (IEE)

OTHER RECOGNITIONS

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

Jim has nearly 40 years' experience in design and implementation of 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 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 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.

GOVERNMENT/COMMERCIAL EXPERIENCE

- Bluefield Area Transit Authority Administration and Maintenance Facility design
- Boyd County, Kentucky Judicial Center
- Chase Towers (formerly Charleston National Bank)
- Department of Transportation Rest Area prototype
- Department of Transportation Welcome Center prototype
- Fenway Park in Boston - Lightning Protection/Grounding Study
- Glenville State College
- I-70 Welcome Center
- Jackson County Libraries Renovations
- Kanawha County Commission Judicial Annex Renovations
- Meadowbrook Rest Areas North and South Bound
- Morgantown Welcome Center
- Redmond House Renovations design
- Rhone-Poulenc new administrative offices
- Sacred Heart Pavilion and Daycare Center
- Saint Patrick Church Renovations
- Shawnee Park Clubhouse
- Stonewall Jackson Marina Renovations
- Tucker County Board Office Boiler Retrofit
- Tucker County Courthouse Renovations
- WV Air National Guard - Commissioning for \$43 million maintenance and fuel cell hangars - **LEED Silver Certified**
- WV Department of Military Affairs and Public Safety Maintenance Facility in Eleanor
- WV Department of Transportation Burnsville Rest Area (**AIA Merit Award Recipient**) and Domestic Water Pumping Station
- WV Division of Culture and History Fire Alarm/Sprinkler upgrades
- White Sulphur Springs Welcome Center

ZDS
Design/Consulting Services

www.zdsdesign.com



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 ASME
- Member ASHRAE

Paul S. O'Dell, P.E.

Senior Project Engineer

Paul has over 21 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.

COMMERCIAL/GOVERNMENT EXPERIENCE

- WVARNG Armory/Annex
- Bruceton Bank
- Bank One
- Cultural Center
- Cuissets Residence
- Camp Dawson Barrack/mess hall
- DOT Huntington District II Headquarters Renovations
- Yeager Airport Terminal Expansion/Renovation,
- DOH Testing Lab
- GMC Lordstown Assembly Plant
- GMC Janesville Assembly Plant
- GMC Pontiac East Assembly Plant
- GMC Bowling green Assembly Plant
- GMC Arlington Assembly Plant
- Harrison County Bank
- JMC Office Bldg.
- WV Capitol Complex Central Boiler Plant
- Judicial Annex
- Appalachian Tire
- Laidley Towers
- USDA Forestry Building

ZDS
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www.zdsdesign.com

STATE OF WEST VIRGINIA - PURCHASING DIVISION

BUILDING 22 SERVER & CHECK SCANNER ROOMS HVAC RENOVATIONS

CEOI: 0211 GSD1700000002

SECTION V.

CLIENT TESTIMONIAL LETTERS



Michael Pickens

172 Oak Street

Dunbar, WV 25064

(304) 400-9993

February 1, 2016

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.

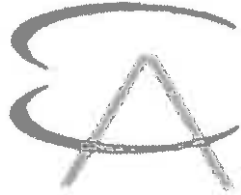
Their ability to work with the State Fire Marshal and other agencies – while guiding everyone to a practical design approach – always provided each project with the best value. They are much more than excellent design engineers; they also understand the importance of operating and maintaining equipment 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,

Michael E. Pickens



ELSWICK & ASSOCIATES, LLC

April 15, 2015

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
(915) 238-1111

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 black ink, appearing to read "Bill Elswick", with a long horizontal flourish extending to the right.

Bill Elswick, MBA, CEO

Boyd, Gary MA, CEFP

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

August 11, 2016

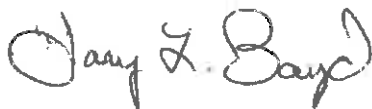
To Whom It May Concern

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,



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



Ritchie County Schools

134 South Penn Avenue, Harrisville, WV 26362
Edward T. Toman, Superintendent

Telephone 304-643-2991
Fax 304-643-2994

February 1, 2016

To: Whom It May Concern

From: David B. Weekley, Director of Student Support Services

RE: ZDS Design/ Consulting Services

We have had the privilege of working with ZDS Design/ Consulting Services on construction projects for Ritchie County Schools. The first project was at Ritchie County Middle/High School. This was on an emergency basis with school closed due to indoor Air Quality issues with which all parties were struggling to determine the cause. ZDS promptly came to our need, assessed the issues, and identified solutions that helped immediately re-open the school. They developed a long-term plan while providing the design and construction administration services which solved the complex issues within the school. This job was ultimately completed to the satisfaction of all parties involved.

Ritchie County Schools had yet another opportunity to work with ZDS on the Smithville Elementary Addition and Renovation project. The professionalism exhibited by ZDS allowed their part of this project to progress smoothly and efficiently. Our community is still very proud of the facility they received.

ZDS Design/ Consulting Services works well with the West Virginia Department of Education, the School Building Authority, State Fire Marshal, and other agencies as needed. This has proven invaluable to Ritchie County Schools. They were very responsive to any issues raised and often offered ideas or suggestions that greatly benefit Ritchie County Schools. They are also very responsive long after these projects have been completed, helping our staff when requested in a prompt, professional manner.

I trust the staff of ZDS and their practical approach to solving challenging facility issues in both new construction and renovations. I would highly recommend ZDS Design/ Consulting Services as they are an exceptional company that is willing to do what it takes to provide a quality job.

STATE OF WEST VIRGINIA - PURCHASING DIVISION

BUILDING 22 SERVER & CHECK SCANNER ROOMS HVAC RENOVATIONS

CEOI: 0211 GSD1700000002

SECTION VI.
ATTACHMENTS



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

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

Proc Folder: 246344

Doc Description: EOI: Bidg 22 Server and Check Scanner Rooms HVAC Renovations

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2016-11-22	2016-12-20 13:30:00	CEOI 0211 GSD1700000002	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Name, Address and Telephone Number:

ZDS Design/Consulting Services
 281 Smiley Drive
 St. Albans, West Virginia 25177
 (304) 755-0075

FOR INFORMATION CONTACT THE BUYER

Jessica S Chambers
 (304) 558-0246
 jessica.s.chambers@wv.gov

Signature X

Jodd Q. Zachireja

FEIN # 550735995

DATE December 20, 2016

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

ADDITIONAL INFORMATION:

Expression of Interest

The Acquisition and Contract Administration Section of the Purchasing Division (Purchasing Division) is soliciting Expression(s) of Interest (EOI or Bids) for the West Virginia Department of Administration, General Services Division (Agency), from qualified firms to provide architectural/engineering services (Vendors) as defined herein.

*Online submissions are prohibited for Expression of Interest *

INVOICE TO	SHIP TO
DEPARTMENT OF ADMINISTRATION GENERAL SERVICES DIVISION 1900 KANAWHA BLVD E, BLDG 1, RM MB-68 CHARLESTON WV25305 US	DEPARTMENT OF ADMINISTRATION GENERAL SERVICES DIVISION BLDG 22 - TAX AND REVENUE 1001 LEE ST CHARLESTON WV 25301 US

Line	Comm Ln Desc	Qty	Unit Issue
1	A/E Services for Bldg 22 Server Room HVAC Project		

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description :

A/E Services for Bldg 22 Server Room HVAC Project

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: 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 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: *Jodd A. Zebinska* Date: December 20, 2016

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 20th day of December, 2016

My Commission expires May 21, 2020

AFFIX SEAL HERE

NOTARY PUBLIC

Lauren M. Meek


Purchasing Affidavit (Revised 08/01/2015)



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.

ZDS Design/Consulting Services
 (Name, Title)
Todd A. Zachwieja, Principal, CEO
 (Printed Name and Title)
281 Smiley Drive, St. Albans, WV 25177
 (Address)
304-755-0075 / 304-755-0076
 (Phone Number) / (Fax Number)
todd.zachwieja@zdsdesign.com
 (email address)

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

ZDS Design/Consulting Services
 (Company)

 (Authorized Signature) (Representative Name, Title)
Todd A. Zachwieja, Principal, CEO
 (Printed Name and Title of Authorized Representative)
December 20, 2016
 (Date)
304-755-0075 / 304-755-0076
 (Phone Number) (Fax Number)