



EXPRESSION OF INTEREST TO PROVIDE
PROFESSIONAL ENGINEERING SERVICES
CEOI 0211 GSD1800000002
JANUARY 17, 2018

**CAPITOL CAMPUS STEAM
LINE/VAULT REHABILITATION**

01/17/18 09:52:46
WV Purchasing Division



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**I – Executive Summary Letter
& Project Approach**



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

January 17, 2018

Ms. Jessica S. Chambers, Buyer
WV Department of Administration
Purchasing Division
2019 Washington Street, East
Charleston, WV 25305

**Re: Expression of Interest to provide Professional Engineering Services for the
*West Virginia State Capitol Campus Steam Line/Vault Rehabilitation***

ZDS is pleased to submit this proposal to provide professional engineering services for the ***West Virginia State Capitol Campus Steam Line/Vault Rehabilitation***. The goal of this EOI is to field verify the existing steam piping, valves, vaults and distribution system; to evaluate the condition of various components of the system including, but not limited to, vaults and piping/valves within the vaults; and to prepare report with results, recommendations, phased schedule and cost estimates for implementation.

ZDS Design/Consulting Services was founded in 1994 and is located at 281 Smiley Drive, St. Albans, WV 25177. The project will be assigned to ZDS' principal-in-charge who has full authority to execute a binding contract on behalf of ZDS: **Todd A. Zachwieja, PE, CEM, LEED AP – Principal and CEO**; Telephone: 304-755-0075; Mobile: 304-545-4550; Email: Todd.Zachwieja@ZDSDesign.com Website: www.ZDSDesign.com. **ZDS** will follow the Project from inception through design and Construction Administration. Refer to **Section II** for a brief description of **ZDS'** Organization and Services.

ZDS founding members have over six decades of engineering experience in West Virginia and are recognized for our specialties in Central Utility Plant and steam distribution system design, energy conservation, commissioning services and Codes' compliance for Governmental, Commercial, Educational, and Health Care facilities. We have successfully incorporated phased construction in facilities to reduce potential disruptions as necessary to allow adjacent spaces to remain occupied and functional. **ZDS'** experience involves hundreds of projects including working with many state and federal agencies and our professionals are dedicated to performing quality services with the goal of meeting our clients' needs, scheduling and budgets. Many past projects have involved steam boiler and distribution systems' design including our work with Johnson Controls on the Capitol Campus steam distribution installation about ten (10) years ago. **ZDS understands the Capitol Campus steam distribution system very well since ZDS provided the original design documents for the system for Johnson Controls and are the most qualified for considering modifications since we understand the interactions for making the changes.** We have worked in 24 states but our home and corporate offices are in West Virginia minutes from the Capitol Complex.

Evaluation Services: ZDS' staff members will perform field observations and evaluations of the systems that will result in a report including findings and recommendations. The purpose of the field investigations will be to determine the impact of the proposed work and will assist in setting priorities for the General Services Division (GSD). ZDS will define the discovered challenges involved in making provisions for the upgrade goals and related Work. Potential Code issues and conflicts that are found will also be noted during the evaluations and described as part of the proposed Project upgrades or "future work" as funding becomes available.

Qualifications and Experience: ZDS' employs the team approach when providing engineering services beginning with our meeting with the Client to review their proposed project scope, concerns, budgets and schedules. ZDS will take into consideration the initial meetings' conversations, our findings during onsite visits and discussions with the operations/maintenance staff to compile a tentative overall plan that will address the desired result with the goal of staying within budget and on schedule.

Planning and design meetings are important to keep the interested parties informed on the direction of the project. We firmly believe that many levels of the Client's staff should be involved with a successful project including the designated Owner's Representative, budget supervisor, operating and maintenance staff and others impacted by the decisions. Recognizing 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. In addition to the Owner's personnel it will be important for the project meetings to include necessary regulatory agencies and other consultants that may be involved. Our belief is that proper communication benefits the client throughout the evaluation, design process, construction and beyond.

We will develop a preliminary budgetary cost estimate based on the initial scope to determine if modifications or alternative solutions may be required to reduce the cost. Throughout the process we will periodically update the costs to reflect any changes in direction of the Project. These updates will occur as a minimum at each design milestone: Schematic Design, Design Development and Construction Documents. Cost estimates will be prepared in a clear and concise method and shared with all team members for potentially necessary decisions. ZDS employs an extensive library of historical costs from past projects combined with RS Means construction cost manuals and, at times, have also reviewed the proposed work with trusted contractors/subcontractors as another method of checking our estimated costs. We utilize quality control on every project as an effort to maintain schedules and stay within the stipulated budget. Peer review of the design process involving various members of our design team is an important step in the process and coupled with our previously mentioned cost estimating resources will result in a better project for the Client.

Refer to [Section III](#) for related project experience and [Section IV](#) for ZDS' staff resumes.

Our current understanding is that the goals of this Project include an evaluation of the piping, valves and overall condition of the three (3) existing steam vaults. This ideally will be accomplished by coordinating a temporary steam system outage to allow for a permitted confined space entry for evaluation. We will utilize the services of a local contractor that has the necessary equipment, as well as certified personnel, to enter the vaults. Any/all outages must be approved in advance by GSD and cannot occur on Monday through Friday.

When steam systems are shut down by GSD, we recognize there is a waiting period to allow for the systems to cool down enough to allow safe entry to the vaults. GSD will be responsible for restarting the system in a safe and effective manner after any shutdowns. If a shut-down cannot occur then we will use the best information available for accomplishing the work, recognizing that additional allowances/contingencies will need to be in the project and change orders are more likely to occur due to unknowns.

Once the evaluation has been completed we will provide recommendations and limited design for the replacement of the HPS valves, associated piping, vault repairs/replacement and new vault doors. Another early goal will be to investigate the steam system serving Building #1 to determine the best method of isolating portions of the building for maintenance purposes.

This will be accomplished by proposing quantity and locations for new isolation valves that will be subject to approval by the GSD prior to development of the design documents. These early goals are intended to allow for the necessary construction activities to occur during the regular steam system shutdown anticipated to be May 1 through October 1, 2018.

ZDS will perform Construction Administration of the activities during this period while concurrently performing a system-wide investigation and assessment of the steam heating plant and distribution throughout the Campus. We will perform a thorough field investigation of the facilities, specifically targeting the steam piping systems to determine the potential impact that any remedial solutions may have on other infrastructure within the facility and present opportunities that can reduce long-term operating costs. As indicated in the EOI during this investigation we will determine the feasibility of adding Building #6 to the steam distribution system. Investigations will culminate in the presentation of a report to the GSD with recommendations prioritized, a tentative schedule for phased implementation to occur over a projected 3-4 calendar years and programmatic construction cost estimates.

Based on favorable review and acceptance of the report by the GSD and within budgetary goals **ZDS** will, as part of a Change Order to the Base contract, prepare Construction Documents that will reflect the agreed upon upgrades to the Campus steam system. We will assist the GSD with Bidding and Negotiations for the procurement of a Contractor to perform the construction activities in the time(s) set forth in the agreement. Construction Administration services will be included as part of this Change Order.

At the completion of all phases of the upgrades **ZDS** will produce record drawings of the entire system impacted by this Project including, but not limited to, the source system header(s) in the central plant, the steam vaults, and the furthest points of the piping systems.

Our evaluations and designs have included many steam systems for entire campus facilities of various occupancies, both new and renovation work, so we have the experience and background to address this project. **ZDS** will request copies of any existing documentation available for our review and use in preparing a feasible approach to the upgrades. We will analyze and compile the information received/found to determine potential solutions to review with the Owner. All final Construction Documents will be reviewed with GSD personnel for approval before issuing for bids.

ZDS Design/Consulting Services has registered professionals that can effectively execute the requirements of MEP projects and believe that our experience makes us the most qualified to work on your facilities. Below is a partial listing of the proposed **ZDS'** staff for this Project.

Todd A. Zachwieja, CEO, Principal-in-Charge. PE, CEM, LEED AP

Ted A. Zachwieja III, Chief Technical Officer, PE, CEM

Jim Watters, Production Manager/Associate.

Paul O'Dell, Senior Engineer, PE.

Larry A. Weese, Sr. Technical Analyst.

Chase J. Thomas, MEP Designer, EI.

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 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, WV Dept. of Education, 1900 Kanawha Blvd. East, Bldg. 6, Room 215, Charleston, WV 25305 (304) 558-2711, mepicken@k12.wv.us. Involved with dozens of boiler replacement/MEP projects in West Virginia since the 1990's.
2. Mr. Charles Moeller, Director, Project Manager for Constellation New Energy, 24 Summit Park Drive, Suite 103, Pittsburgh, PA 15275, (724) 584-3331, charles.moeller@constellation.com. Former Johnson Controls Project Manager on the Capitol Complex Central Steam plant project.
3. 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 steam boilers/MEP systems since 1990's.
4. Mr. Ron Adkins, Construction Manager for WVDHHR, One Davis Square, Suite 100, Room 103, Charleston, WV 25301 (304) 634-9379, ron.adkins@wv.gov and former Project Manager for the \$43 million WV Air National Guard project. Construction Manager for DHHR facilities since 2011 including \$45.5 million addition/renovations to William R. Sharpe, Jr. Hospital, Weston, WV.
5. Mr. Greg Nicholson, Retired Chief Operations Officer, WVDHHR, Charleston, WV (304) 552-0101, gregnicholson@suddenlink.net Involved with seven hospitals involving heating systems including steam boiler systems consisting of multiple projects at each facility.

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 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

II - Organization/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.

**III – Expertise and
Project Experience**

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



LEED Certified Candidate



Design/Consulting Services

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

ZDS Design/Consulting Services

Project Name: *State of WV Capitol Complex Performance Contracting
Located in Charleston, WV*

**Client Contact:****Mr. Chuck Moeller**

Constellation Energy

24 Summit Park Drive, Suite 103

Pittsburgh, PA 15275

(412) 489-9445

charles.moeller@constellation.com

Services:

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. **ZDS** was a consultant, working under the direction of Johnson Controls, Inc.

Project Description

The State of West Virginia was aware that their facilities at the Capitol Complex were aging and in need of significant infrastructure upgrades, but were having difficulty appropriating the necessary funding to make such improvements. Many of the existing boilers and other primary heating equipment were past their expected service life and in disrepair. The State of West Virginia passed a new bill in 2003 that permits Performance Contracting to be used as an avenue for implementing infrastructure upgrades in State facilities provided the upgrades self-fund within a 15 year time period. The State elected to solicit proposals from various Energy Service Companies (ESCO) with the intention of crafting a major improvement project that would reduce operating costs to the State as well as pay for itself over the 15 year period.

After an extensive review and selection process, the Team of Johnson Controls, Inc. and **ZDS** Design/Consulting Services was selected. The scope of the project included various energy conservation measures to the Capitol Building as well as Buildings #3, 4, 5, 6, 7, 8, 9, 11, 13, 15, 16 and 17. The center piece of the program involved engineering the central heating plant and distribution system for the Capitol Building, as well as Buildings #3, 4, 5, 6, 7, 8 (Governor's Mansion) and provisions for #10 (Holly Grove) plus additional future capacity.

PROJECT EXPERIENCE

A central heating plant anchored the Facility Improvement Measures. It yielded the elimination of 14 failing boilers with provisions for future expansion of up to 600,000 square-feet of office space. A centralized heating plant offers greater efficiency in overall system operation, centralized control and maintenance of primary heating equipment, with the added benefit of supplemental capacity in the event of a boiler failure. The first phase of the program began in May 2005, with the evaluation of the existing heating plants, HVAC equipment, and their sub-systems to quantify deficiencies and identify potential opportunities to improve comfort, IAQ, extension of equipment life and an overall reduction in operating costs. Preliminary engineering studies reflected that millions of dollars could be saved in energy, operating costs and deferred capital costs by implementing this multi-million dollar program. The new central plant consisted of four 25,000 MBH high pressure steam boilers and retrofitting two 5,500 MBH boilers to heating hot water plus the distribution system to serve nine (9) buildings on campus.



Some typical improvements included either the replacement or retrofit of major air handling units, re-establishing proper control strategies, reducing outdoor air intake quantities when allowable, installing new building automation equipment, general HVAC equipment repairs and replacement, documentation of existing and post-construction conditions, and establishing a consistent overall operating strategy. Individual HVAC systems were enhanced to meet applicable codes and standards. Exhaustive hours were spent with the State in assisting them with the identification and prioritization of facility improvement measures. The time spent also identified potential construction issues with an emphasis on critical phasing requirements.

Over the years, **ZDS** has been involved in evaluation and/or design, including construction activities, for 2,137,400 square-feet involving fifteen (15) buildings at the State Capitol campus.

<i>Contracting Costs:</i>	\$10,108,802
<i>Initial Year Savings:</i>	\$1,079,296
<i>Size:</i>	1,929,155 ft²
<i>Completion:</i>	2008 for Construction

ZDS Design/Consulting Services

Project Name: *Veterans Administration Steam Replacement Project
Located in Huntington, WV*



Project Description

ZDS teamed with Chapman Technical Group for the project that included evaluation of the existing steam distribution system from a central boiler plant to buildings #5, #6, #7, #8 and #28. Following the evaluation, and as determined by the Owner, Construction Documents were developed for new/replacement of existing piping, valves, manholes, building connections and condensate recovery. The project required coordinating with three other building renovation projects involving two different design teams and was completed on schedule and within budgetary limits.

Contracting Costs: \$1,500,000
Completion: 2010

Engineering for State & Local Government Facilities

Welcome Center and Rest Area



ZDS engineered the prototype for several Welcome Centers and Rest Areas.

ZDS provided engineering planning, design, bidding and construction admin services for M/E, Plumbing and Fire Protection.

ZDS also evaluated the existing courthouse's potential power needs and incorporated those in the new Judicial Annex's electrical systems while providing emergency power.

Mercer County Annex



Division of Culture and History
A 228,500 ft² Facility



Emergency Power Generator

Renovations save the Museum nearly \$153,000 in annual energy costs while preserving the State's priceless collection with proper HVAC, humidification, lighting, electrical and power generator systems.



Design/Consulting Services

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.



Design/Consulting Services

West Virginia Air National Guard



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

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.

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



General Motors Corporation Retro - Commissioning



HVAC planning and full upgrades; DDC/PLC controls; stream lining operating and maintenance procedures; heat recovery; fuel conversion; training; VFD's; variable water volume pumping; **steam boiler system optimization**; and chiller optimization.

ZDS Design/Consulting Services and *Facility Dynamics Engineering* worked with General Motors (GM) Corporation's Worldwide Facilities Group on the Retro-Commissioning Program for GM's North American Facilities. The first phase of the program involved analyzing the HVAC systems within nine existing plants to determine deficiencies and opportunities to improve comfort, Indoor Air Quality, extend the life of existing equipment, and reduce operating costs.



Retro-Commissioning Program Size
North America Operations
Facility Size
Energy and Operating Savings

\$400,000,000
Encompassing 160 Facilities
Over 350,000,000 ft²
Millions of dollars per major facility

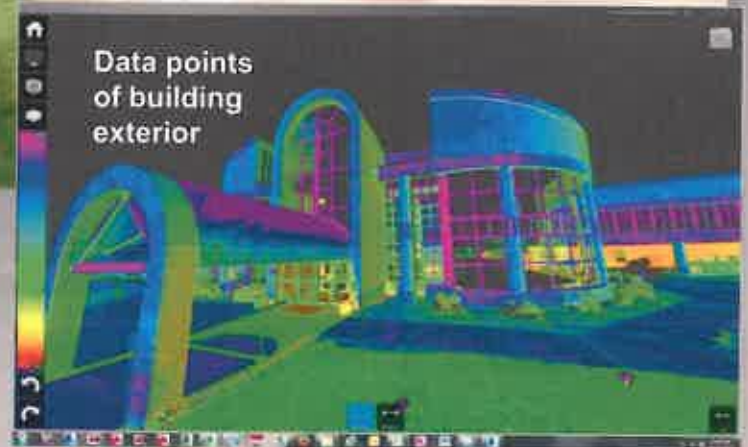


BIM - 3D Digital Imaging

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:

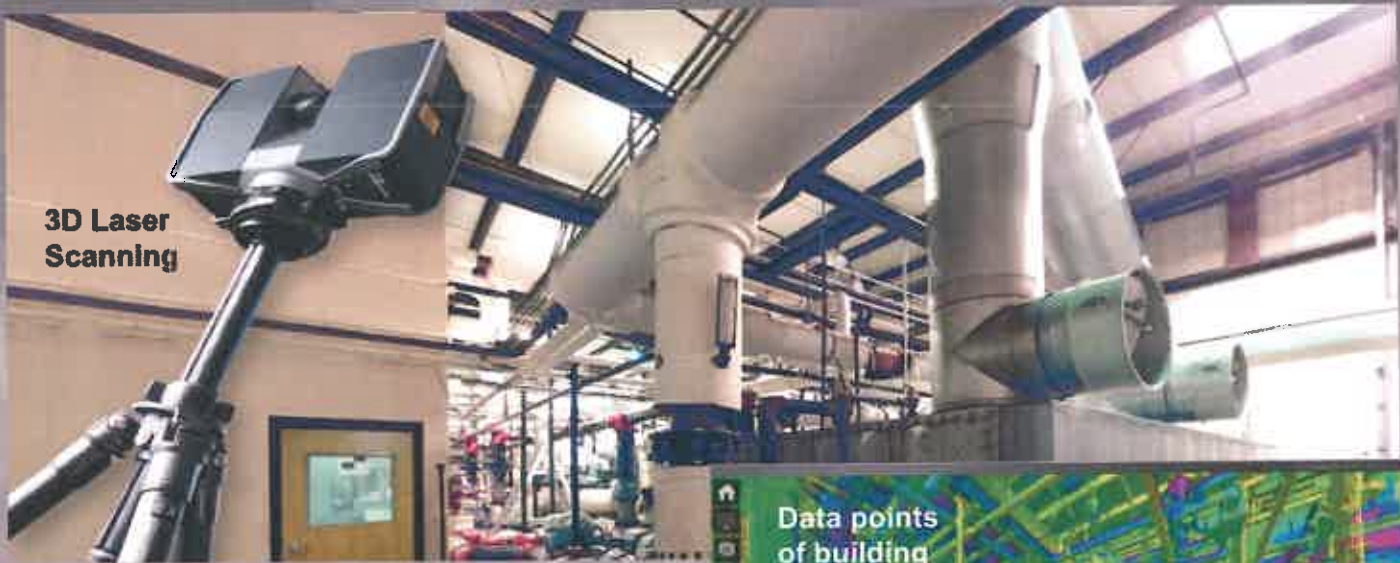
3D laser Scanning allows facility owners to view and measure areas with others on their planning and construction team.



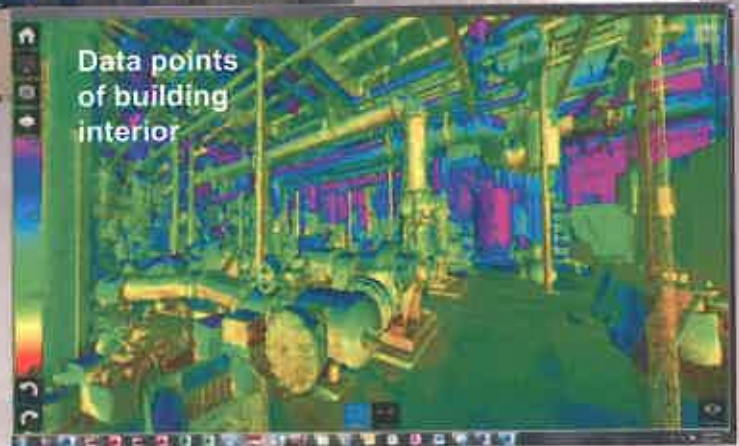
BIM - 3D Digital Imaging

"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



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.



IV - Resumes

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 for millions of square-feet for facilities located in 10 states. He has been involved with many commercial structures including high-rise commercial building renovations. Todd designed renovations to many existing schools which received **Energy Star Certifications** placing them in the nation's top 25% of energy efficiency schools. *The College Planning and Management Magazine* featured Todd and his work with a major University for the performance contracting programs that save millions of dollars in energy and operating costs. Most projects also qualified for EPAAct 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
- General Motors Corp. Re-commissioning
- Jackson County Courthouse Annex
- Kanawha County Commission: 120,000 sf additions/renovations for the Judicial Annex/Kanawha County Courthouse
- Kanawha County Public Library
- Kohl's
- Laidley Towers, Charleston WV
- Mercer County Courthouse Annex
- Olin Corporation
- Phillip Morris USA
- Pendleton County Courthouse & Annex
- Public Service Commission of WV
- Rhone-Poulenc
- Robinson Grand Theatre, Clarksburg WV
- Santa Anna Federal Building, CA
- St. Patrick's Church, Weston WV
- WV Capitol Complex Central Heating Plant
- Sears
- Toyota Motor Manufacturer, WV Inc.
- Union Carbide/DOW
- United Center, Charleston WV
- Walker Machinery
- WV Air National Guard including Cx \$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



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. 2205



LEED Accredited Professional,
 National Certification through
 USGBC No. 10083891

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.



www.zdsdesign.com

Ted (Todd) A. Zachwieja, P.E., CEM, LEED AP
CEO, Principal-in-Charge M/E/P/FP Design and Commissioning

PROFESSIONAL AND COMMUNITY AFFILIATIONS

Member of Investigative Engineers Association (I-ENG-A) and founder of I-ENG-A of the Tri-State Region

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

Recognized by the International Who's Who of Professionals

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

Recognized by AEE nationally in 2007 as a Legend in Energy

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

Charter Life Member of the Association of Energy Engineers

Professional Affiliate Member of the American Institute of Architecture

Associate Member West Virginia Society for Healthcare Engineering

Member of the International Code Council

Member of the National Society of Professional Engineers



OTHER RECOGNITIONS

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

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

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

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

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

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

1st Place 2014 ASHRAE Technology Award, Region VII

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

LEED Gold Certified Harvard Arboretum, Boston, MA

First ASHRAE bEQ certified building in West Virginia, 2015



Ted Zachwieja III, P.E., CEM

Chief Technical Officer

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 governmental, educational, health care, industrial, and commercial facilities. He also has experience in speaking on how 3D laser scanning impacts our industry today.

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

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

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

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 Renovations
- Meadowbrook Rest Areas
- I-70 Welcome Center
- CASCI Building, Charleston WV
- Morgantown Welcome Center
- Pocahontas County Community Center
- Robinson Grand Theatre, Clarksburg WV
- Servia Rest Areas
- St. Patrick's Church, Weston WV
- Stonewall Jackson Marina
- University of Charleston Innovation Center Additions/Renovations
- William R. Sharpe, Jr. Hospital Additions/Renovations
- WV Parkways Authority, Toll Booth Plazas
- WV State Capital Complex Central Heating Plant
- White Sulfur Springs Rest Area
- Numerous K-12 School Renovations



PROFESSIONAL REGISTRATIONS

Professional Engineer,

Florida
West Virginia

Certified Energy Manager (C.E.M.)

National Certificate No.
22411



EDUCATION

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

AWARDS AND RECOGNITIONS

Awarded 2012 Legend in Energy by the Association of Energy Engineers

Awarded acceptance into ASHRAE's 2015 Leadership University.

ASHRAE Blue Ribbon Award of Excellence

Co-Author at Autodesk University



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

ZDS
Design/Consulting Services

www.zdsdesign.com

James E. Watters

Associate - Production Manager

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 (formally 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 Admin. offices
- Robinson Grand Theatre, Clarksburg WV
- Sacred Heart Pavilion and Daycare Ctr.
- St. Patrick's Church, Weston WV
- 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



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

ZDS
Design/Consulting Services

www.zdsdesign.com

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.



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

HEALTH CARE/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
- IMC Office Bldg.
- WV Capitol Complex Central Boiler Plant
- Kanawha County Commission Judicial Annex Additions/Renovations
- Appalachian Tire
- Laidley Towers, Charleston WV
- USDA Forestry Building
- University of Charleston Innovation Center Additions/Renovations
- William R. Sharpe, Jr. Hospital Additions/Renovations
- Numerous K-12 School Renovations

Larry A. Weese

Sr. Technical Analyst



EDUCATION

West Virginia University
Master of Science in Wood Science

West Virginia University
Bachelor of Science in Wood Science

Larry has nearly 26 years of experience providing design and Construction Administration services in mechanical, plumbing, fire protection and various electrical systems. His experience encompasses a broad range of Projects including, but not limited to, Commercial, Government, Healthcare, Educational and Industrial facilities. These Projects over the years have ranged extensively from small to large in terms of both physical sizes and construction budgets.

Larry's primary strengths are in the design and implementation of piping systems including all domestic water, sanitary waste/vent, storm water and natural gas combined with an expertise in water heating systems, boilers, pumps, recirculating systems, Thermostatic Mixing Valves, etc. Other strengths include a good understanding of the design and layout of HVAC systems, fire protection/sprinkler systems, lighting and other electrical systems. He consistently stays current with applicable Codes and national, as well as local, standards and regulations.

He has a good awareness of all aspects of the design process and how the various disciplines need to be coordinated to avoid conflicts during construction. Larry has maintained growth as technology has changed throughout the years in the field of engineering design and drafting standards beginning with ink drafting on paper, varying degrees of CAD drafting and currently BIM/REVIT.

Working on multiple National Guard projects in recent years he has experience and understanding of the United Facilities Criteria Code 3-600. Many of the facilities utilized gas-fired instantaneous water heating systems and vehicle service bays that incorporated numerous piping/tubing systems for air, grease, oil and other fluids.

Larry's experience with site utility design and coordination with the associated utility is a valuable asset on all projects, whether new construction or extensive renovations.

GOVERNMENT/COMMERCIAL EXPERIENCE

- Bobcat of Advantage Valley Facility
- Charleston Fire Station
- Diamond Electric
- Dow Process Control Facility
- Elkins Armed Forces Reserve Center
- Fifth Avenue Baptist Church
- Foodland Stores
- Gassaway Armory
- Kroger Stores
- Lewisburg Readiness Center
- Mason County 911 Center
- Moorefield Readiness Center
- Orchard Manor Fire Station
- Raleigh County 911 Center
- Randolph County 911 Facility
- Rite Aid Stores
- Silver Trees Suites Hotels
- Summersville Readiness Center
- St. Albans Armory
- St. Albans Readiness Center
- St. Johns Church
- Verizon Office Buildings
- Yeager Airport
- WV Department of Highways

EDUCATIONAL EXPERIENCE

- Fairmont State College
- Fairdale Elementary School
- New River CTC
- Nitro High School
- South Charleston Middle School
- Sissonville Middle School
- Pikeview Middle School
- Lewisburg Elementary School
- Talcott Elementary School
- West Liberty University
- Marshall University
- WV Institute of Technology


Design/Consulting Services

www.zdsdesign.com

Chase J. Thomas, EI

M/E/P Designer, Commissioning

Chase has nearly 9 years of experience providing design and Construction Administration services in mechanical, plumbing, fire protection and various electrical systems. His experience encompasses a broad range of Projects including, but not limited to, Commercial, Government, Healthcare, Educational and Industrial facilities. These Projects over the years have ranged extensively from small to large in terms of both physical sizes and construction budgets.

Chase's primary strengths are in the design and layout of HVAC systems, fire protection/sprinkler systems, lighting and other electrical systems. Other strengths include a good understanding of the design and implementation of piping systems encompassing all domestic water, sanitary waste/vent, storm water and natural gas combined with a knowledge in water heating systems, boilers, pumps, recirculating systems, Thermostatic Mixing Valves, etc. He consistently stays current with applicable Codes and national, as well as local, standards and regulations.

He has a good awareness of all aspects of the design process and how the various disciplines need to be coordinated to avoid conflicts during construction. Chase has maintained growth as technology has changed throughout the years in the field of engineering design and drafting standards beginning with varying degrees of CAD drafting and currently BIM/REVIT.

Chase maintains an active membership to the WV ASHRAE professional society as Vice President. 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 has also continued his education with relevant courses associated with the field of engineering, and has been active in leadership training provided through ASHRAE and other highly reputable coaching services.



EDUCATION

West Virginia University
Bachelor of Science
in Mechanical Engineering

West Virginia State Board of
Registration for Professional Engineers
West Virginia EI No. 9146

AWARDS AND RECOGNITIONS

Vice President of WV ASHRAE

Member of Boy Scouts of America
(Eagle Scout)

General Contractor License Holder

GOVERNMENT/COMMERCIAL/EDUCATIONAL EXPERIENCE

- Urlings General Store
Building Renovations
- West Edge Factory
Building Renovations
- Tucker County High School
HVAC Renovations
- Weston Hampton Inn
HVAC Renovations
- CAMC Memorial Hospital Patient
Rooms HVAC Renovations
- St. Mary's Hospital Patient Rooms
HVAC Renovations
- Cabell Huntington Hospital Surgery
Center HVAC Controls
- Ashland Community & Technical
College HVAC Controls
- Bonsak Elementary (VA) HVAC
Controls


Design/Consulting Services

www.zdsdesign.com

**V – Testimonial Letters
and Recognition**



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.

Michael Pickens

172 Oak Street

Dunbar, WV 25064

(304) 400-9993

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
304.542.9877

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

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Bill Elswick", is written over a faint, light blue circular watermark or stamp.

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.

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: 399436

Doc Description: EOI: Capitol Campus Steam Line/Vault Rehabilitation

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2017-12-22	2018-01-17 13:30:00	CEOI 0211 GSD1800000002	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

FEIN #

550735995

DATE January 17, 2018

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

ADDITIONAL INFORMATION:

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

* Online submissions of Expressions of Interest are Prohibited.

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 1900 KANAWHA BLVD E, BLDG 1 RM MB60 CHARLESTON WV 25305-0123 US

Line	Comm Ln Desc	Qty	Unit Issue
1	A/E Services Capitol Campus Steam Line/Vault Rehabilitation		

Comm Code	Manufacturer	Specification	Model #
81101508			

Extended Description :
A/E Services Capitol Campus Steam Line/Vault Rehabilitation

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.

Todd A. Zachwieja
 (Name, Title)
 Todd A. Zachwieja, PE, CEM, LEED AP CEO, Principal in Charge
 (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)

Todd A. Zachwieja
(Authorized Signature) (Representative Name, Title)

Todd A. Zachwieja, PE, CEM, LEED AP CEO, Principal in Charge
(Printed Name and Title of Authorized Representative)

January 17, 2018
(Date)

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

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:

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

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

Addendum Numbers Received:

(Check the box next to each addendum received)

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

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

ZDS Design/Consulting Services

Company

Sadd Q. Zebineja

Authorized Signature

January 17, 2018

Date

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

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: ZDS Design/Consulting Services

Authorized Signature: *Todd A. Zochineja* Date: January 17, 2018

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 17 day of January, 2018

My Commission expires May 21, 2020.

AFFIX SEAL HERE

NOTARY PUBLIC

Lauren Meeh

Purchasing Affidavit (Revised 07/07/2017)

