



**State of West Virginia  
Department of Administration  
Purchasing Division**

**NOTICE**

Due to the size of this bid, it was impractical to scan every page for online viewing. We have made an attempt to scan and publish all pertinent bid information. However, it is important to note that some pages were necessarily omitted.

If you would like to review the bid in its entirety, please contact the buyer. Thank you.

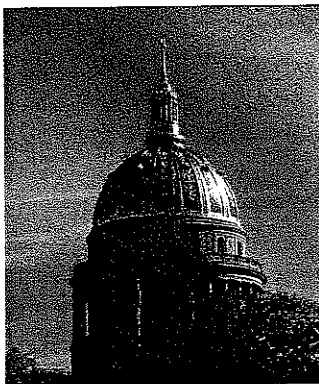
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**ZDS Design Consulting Services** is pleased and proud to submit this expression of interest and statement of qualifications for your consideration. We have extensive experience in HVAC Mechanical/Electrical design including previous work experience with the *WV Army National Guard* facilities. Our team has experience in West Virginia and throughout the United States due to our unique combination of specialists and our variety of clients. ZDS is recognized for its specialties in mechanical design, electrical design, indoor air quality services, energy conservation/performance contracting and commissioning services for Industrial, Commercial and Institutional Buildings.

ZDS also provided HVAC Mechanical/Electrical upgrades to the Cultural Center, solving significant Indoor Air Quality issues, restoring comfort to the building while providing an energy efficient HVAC system. Other HVAC renovation experience includes over a hundred schools, Concord University, Kanawha County Commission, Laidley Tower's, Marshal University, WV Department of Transportation, central heating plant for WV Capitol Complex and others.



ZDS will lead all phases of the work, providing engineering and project management for the proposed HVAC upgrades and related engineering consulting services as we have done for many customers including buildings at the WV Capitol Complex. Our office is located in Teays Point Industrial Park, 91 Smiley Drive, St. Albans, West Virginia, 25177 a relatively short drive to the *WV Army National Guard* facilities in Coonskin which will aid in the communications. Professional Engineers are licensed in West Virginia, Ohio, Pennsylvania, Virginia, North Carolina, South Carolina, Kentucky, Georgia and elsewhere. ZDS's personnel have worked in 23 different states. Couple this with our long-standing collaborations with our highly experienced consultants and you will see that our team has the expertise and experience to affect all phases of the proposed renovations. We work with consultants when necessary for Architecture/Interior Design and for structural engineering depending upon the type of space being renovated and goals to preserve the existing architecture. Our teams experience in the specific area also includes knowledge of the existing building through our previous work for upgrading emergency power to address homeland security issues.



**CAS Structural Engineering, Inc.**, a West Virginia Certified Disadvantaged Business Enterprise is located in the Charleston, West Virginia area. CAS will provide any structural design required for your project. Carol A. Stevens, PE, is the firm president and will be the engineer of responsible charge for this project. Ms. Stevens has over 18 years of experience with building structures in both West Virginia and Pennsylvania. The most visible projects for CAS involve the West Virginia State Capitol Complex include: exploratory evaluation and design for corrections to the Capitol dome (during the gilding project), evaluation of existing conditions and structural design for renovations at the Governor's Mansion, and for the renovations to the Main Capitol Building façade, Buildings #3/#5 central boiler plant

structural design.

**Personnel Assigned** The project is assigned to Todd Zachwieja, ZDS's principal in-charge of planning/design who will follow the project from inception through design. We assign the production staff according to the nature of the project and the work force necessary to meet the schedule. Ted Zachwieja is ZDS's Principal-in-Charge of overseeing the construction administration process and would

attend the construction meetings while coordinating the design intent with Todd Zachwieja and other engineers. A brief listing of key people includes:

**Todd A. Zachwieja**, P.E., CEM, LEED AP, CEO, Principal, BSME, MSEM with over 26 years of experience in M/E design, energy mgt., IAQ and commissioning. *Nationally recognized for expertise in Mechanical Design, Indoor Air Quality and Certified as an Energy Manager.*

**Ted T. Zachwieja**: Principal with over 40 years of experience in mechanical and electrical design. *Ted was one of three engineers selected by the Department of Energy to train those who manage buildings to conserve energy.*

**Mark Moore**, PE, BSEE, Project Manager, Electrical, Engineer with over 8 years of experience in Electrical/Plumbing/Mechanical design.

**James Lowry**, EIT, BSME specializes in HVAC, Fire Protection and plumbing Engineering design.

**David Dial**, P.E., Senior Engineer, BSME, MSEE, over 27 years of HVAC/Electrical/Plumbing & Structural design experience.

**Carol Stevens**, P.E., President of CAS Structural Engineering, BSCE, MEES, over 25 years of Structural design experience with extensive knowledge of the Main Capitol Complex.

The resumes of the teams personnel are include in Section III. We can also subcontract with reliable companies, as needed, to meet your project needs.

**References:** We have extensive renovation experience including phasing construction. We encourage you to call our references and ask how well we worked with their staff, about our technical strengths and our ability to work with contractors to provide the Owner with a quality project. ZDS references that we would encourage you to call, and which relate to this type of Project include:

1. Dr. Mark Manchin, Executive Director School Building Authority
2. Mr. Tony Crislip, Manager, Physical Plant, Marshall University
3. Mr. Mark Lynch, Director of Facility Operations, WV Division of Culture & History
4. Mr. John Daniels, Randolph Co Schools,
5. Mr. Bill Elswick, Executive Director of Office of School Facilities
6. Ms. Jerie Whitehead, Purchasing Director, Kanawha County Commission,
7. Mr. Keith Chapman, WV DOT District Two Manager, Huntington, WV

We believe that our combined specialties provide the WV Army National Guard with the best expertise to provide economical solutions to your specific projects needs. Our proposed Team Members have knowledge of your existing facility, which will also aid in responding promptly to your needs.

Our team has been extremely effective in the past on acting in our clients' interests to determine availability in existing equipment, and pertinent existing conditions that may affect the design. Our approach to incorporate new proven technologies and management methods have saved our clients substantial money in the construction costs and operating costs. We pride ourselves on being viewed as an extension to ours client's staff and successfully incorporating pertinent information about their facility into any proposed solution.

Our approach is different than the traditional Engineering role. Our project team has actual operational experience, not just design experience. We can design the improvements and commission the Mechanical/Electrical systems. By commissioning the systems, we fine-tune the building mechanical equipment to actual conditions and assist the building personnel after occupancy to improve comfort, provide training, and minimize operating costs.

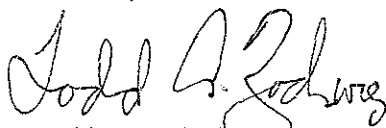
Our team has over 4 decades of experience in West Virginia giving us the local understanding of your needs. The Department of Transportation, Kanawha County Commission, Marshall University, WV County Schools, Ohio University (Athens & Chillicothe campuses), Concord University, and the WV Capitol Complex all found ZDS to be successful in comparable infrastructure retrofits to their facilities. Many changes have occurred in the codes and regulations since the facility was originally constructed. We have code specialist as part of our team to help ensure that the proposed renovations also incorporate the State of WV Fire Marshal requirements, NFPA, ASHRAE, NEC, International Building Code and other pertinent requirements. We also have an excellent reputation with the State Fire Marshal's office.

ZDS provided engineering for upgrades at Ohio University at both its Athens campus and Chillicothe campuses involved saving over \$2.5 million annually. Please review the enclosed article in Section IV from the *College Planning & Management* on our work at Ohio University which states "ZDS, is worth the monies the university paid for their services. It was important to have somebody guide us through the process," says Sherwood Wilson, then Associate Vice President for Facilities and Auxiliaries.

We also recently provided HVAC, plumbing and fire protection engineering for the eight-story Judicial Annex facility in Charleston and comprehensive HVAC and electrical renovations for Marshall Universities Harris Hall. We also provided extensive HVAC upgrades for WV DOT District Two Headquarters building. Our work with many WV County Schools involved extensive HVAC/electrical renovations involving millions in construction costs. Ask the WV Department of Education and School Building Authority about our firm. Both have asked our participation in establishing HVAC design and construction guidelines for all schools in WV.

We believe that our combined specialties provide WV Army National Guard with the best Engineering expertise to provide economical solutions for your specific projects needs. We look forward to meeting with you to discuss our team's qualifications and your needs further. If there are any questions, please do not hesitate to call.

Sincerely,



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

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