

Request for Architectural Services Proposal

The West Virginia Division of Natural Resources

Demolition of Existing Sleeping Units

(CEOI 0310 DNR1500000008)



October 14, 2014

Presented By:

THREE DESIGNS, PLLC

1045 Nease Drive
Charleston, WV 25387
(304) 807-0841

10/14/14 12:13:39PM
West Virginia Purchasing Division

www.threedesignswv.com

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I. PROJECT TEAM DESCRIPTION

Three Designs' Firm Profile

Three Designs, PLLC (Three Designs) will provide the experience and expertise to successfully develop the Demolition and Disposal of the three remaining Modular Sleeping Units Project. Three Designs has been designing demolition of buildings of all sizes and types for new uses of the site.

Utilizing the total team concept delivery model, our local project team will be supplemented by individuals bringing specific experience and knowledge of construction of this type. These select project team members may be located in other Three Designs offices, yet will provide service through Three Designs' interconnected electronic network and in-person specifically when their physical presence is needed.

Three Designs is a firm sized for this project and the West Virginia Division of Natural Resources (WV DNR) without the huge overhead of larger firms, in which will focus on three design principles, giving the very best functional / aesthetic design for the most **cost effective** project design.

Three Designs provides architecture planning and design, engineering, and construction services for clients statewide in West Virginia. Three Designs is a small firm based in Charleston, WV, with an emphasis on service delivery and relationships with local clients, seeking to provide design expertise benefiting the local community where we live and work. The local Charleston office has a professional staff providing architecture and planning services.

We utilize a total team concept to its operational model whereby local talent and expertise is supplemented where necessary by team members that may possess specific proficiency in the project type being designed. This project delivery method results in the client receiving the highest level of talent and experience for the execution of their project.

Our Three Designs' office in Charleston WV provides a full range of architectural services, led by:

Ron L. Bolen, AIA, LEED AP

President

Three Designs, PLLC

1045 Nease Drive

Charleston, WV 25387

Cell Phone: 304-807-0841

Email : rlbolen@threedesignswv.com

Web site: threedesignswv.com

We have qualified employees and will perform projects across the State of West Virginia. We are familiar with all the design codes and standards and the level of quality required to perform planning

I. PROJECT TEAM DESCRIPTION

and design work for the West Virginia Division of Natural Resources (WVDNR). This experience, coupled with our technical expertise, has helped us to understand our customers and meet their expectations in the delivery of a quality product.

CONSULTANTS

We are teaming together with **CAS Structural Engineering, Inc. (CAS)** for structural engineering services for this project, and with **Miller Engineers, Inc. (Miller)** for mechanical / electrical engineering services. This team has worked together previously very successfully and we believe this the very best team for this project. The team will provide complete documentation for Demolition and Disposal of the three remaining Modular Sleeping Units Project and assisting the WVDRN will be provided with key services from Programming through Construction by the design team.

CAS, the team member for structural engineering ensures the quality analysis and design for the safety of structures and personnel during the project. CAS's structural engineering design utilizes simple, yet sound structural elements to build complex building structural systems. CAS will be responsible for making creative and efficient use of funds, structural elements and materials to achieve the goals of the client.

Miller Engineering, Inc., the mechanical / electrical engineering component to the team brings critical design performance to the project for all the mechanical, electrical and plumbing components. Miller's previous design experience with WV DNR and other facility endears was key in having them as a vital part of the team. They have very good decision making skills, accurate documentation, performance and cost-estimating abilities which we feel is significant for your project's success.

I. PROJECT TEAM DESCRIPTION

CAS Structural Engineering, Inc. – CAS Structural Engineering, Inc. is a West Virginia Certified Disadvantaged Business Enterprise structural engineering firm located in the Charleston, West Virginia area.

Providing structural engineering design and/or analysis on a variety of projects throughout the state of West Virginia, CAS Structural Engineering has experience in excess of 25 years on the following types of building and parking structures:

- Governmental Facilities (including Institutional and Educational Facilities)
- Industrial Facilities
- Commercial Facilities

Projects range from new design and construction, additions, renovation, adaptive reuse, repairs and historic preservation (including use of The Secretary of the Interior's Standards for Rehabilitation) to evaluation studies/reports and analysis.

CAS Structural Engineering utilizes AutoCAD for drawing production and Enercalc and RISA 2D and 3D engineering software programs for design and analysis. Structural systems designed and analyzed have included reinforced concrete, masonry, precast concrete, structural steel, light gauge steel and timber.

Carol A. Stevens, PE is the firm President and will be the individual responsible for, as well as reviewing, the structural engineering design work on every project. Carol has over 25 years of experience in the building structures field, working both here in West Virginia and in the York, Pennsylvania vicinity. Carol is also certified by the Structural Engineering Certification Board for experience in the field of structural engineering.

CAS Structural Engineering, Inc. maintains a professional liability insurance policy.



CAS Structural Engineering, Inc.

P.O. Box 469

Alum Creek, West Virginia 25003-0469

(304) 756-2564 (voice)

(304) 756-2565 (fax)

2. PROJECT TEAM DESCRIPTION

Firm Profile - Capabilities

Our firm capabilities and experience, uniquely qualify Miller Engineering (MEI) for this WVDNR project.

Each and every project is approached with a **complete assessment process**. Miller Engineering values the relationship with the client and other professional stakeholders to deliver projects in a timely, constructable, and professional manner.

Miller Engineering is an integral and active solutions provider within this process. We **partner** with clients to control first and life cycle cost. This provides a value to the project both in the short-term and long-term for the owner.

The Miller team maintains professional competencies through on-going training and education.

Excellence in design solutions is practiced and maintained through consistent site visits during the construction process.

Miller Engineering designs mechanical, electrical, and plumbing systems for new construction, renovations, feasibility studies, and system repairs.

Relevant Benefits to the WVDNR Project -

- Experienced and Licensed Professional Engineers
- Quality, Value-Engineered Project Delivery
- Below Industry Change Order Status
- LEED-AP Certified
- Qualified Construction Representative on Staff
- Building Information Modeling
- Consistent, Professional, Hands-on Service
- Emergency Facility Response
- Extensive Experience with WV Construction for Renovation
- Availability to Ensure Project Success

Engineering Services

Design and Consultation

- **Mechanical, Electrical, Plumbing**
 - **Utility, Code Observation**
 - **Telephone/Data**
- **Construction Administration**

2. EXPERIENCE

Berlin McKinney Elementary School Project

Demolition

2003



- Mr. Bolen was project manager on this school demolition / renovation project which was developed as project to repair the flooded school and to expand the school facility for the local community. The prime objective of the project was to selectively demo the portions of the building damaged by a flood and the aging elementary school in Wyoming County, WV.
- The demolition included hazardous materials removal of asbestos floor tile. The portions of the facility was selectively demolished and removed from the site included windows, doors, floor tile, ceiling tile, lighting, and HVAC.
- Mr. Bolen provided complete demolition design and construction administration services include the hazardous materials removal and the selective demolition and proper removal of all debris from the site.

2. EXPERIENCE

Little Kanawha Demolition Project

Demolition

2010



- Mr. Bolen was project manager on this farm facility which was developed as demolition project to replace and expand aging bus maintenance facility for the local community. The prime objective of the project was to demo the five aging buildings to give space for the future facility to serve the local Grantsville, WV area.
- The demolition included hazardous materials removal of asbestos and lead based paint. The facilities were fully demolished and removed from the site. Other elements removed included septic tanks and water cisterns.
- Mr. Bolen provided complete demolition design and construction administration services include the hazardous materials removal and the full demolition and proper removal of all debris from the site. The site of the facility is located in Mt. Zion, West Virginia. The site is approximately 4.55 acres.

2. EXPERIENCE

Daniels Elementary School

Demolition /
Renovation / Addition
2004

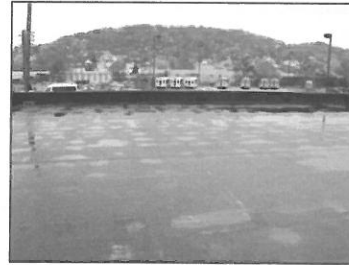


- Mr. Bolen was project manager on this facility which was developed as a major demolition / renovation / addition project to repair and expand aging facility for the local community. The prime objective of the project was to demo the aging portions of the facility which could not economically be repaired and to construct and integrate the facility to current standards, providing a complete elementary school facility for nearly 750 students.
- The demolition included large portions of the facility while roof steel and bearing walls required support during construction. Demolition required complete removal of toilets, classrooms, office space, and library with roofs, walls, floor slabs, sanitary lines, water system, and power system removed and rerouted for the new layout.
- The facility has a large gymnasium, dining room, full commercial kitchen, offices, storage rooms, toilets, classrooms, and library and is equipped for ADA compliance. The facilities operate as a pre-kindergarten through fifth grade facility for the local community.
- The roof pitch is on a low slope allowing for new rooftop HVAC units for the facility to be installed equipping the school with upgraded heating and cooling. This controlled the classrooms with individual control and controlled operational costs. The construction costs were eased by the client purchasing the HVAC equipment and the contractor installing.

2. EXPERIENCE

Good News Mountaineer Garage Demolition

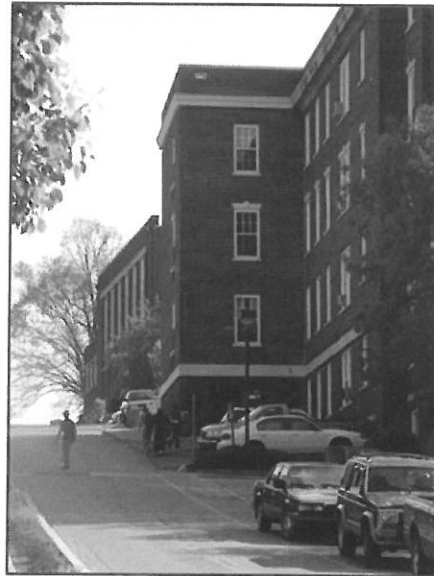
2013



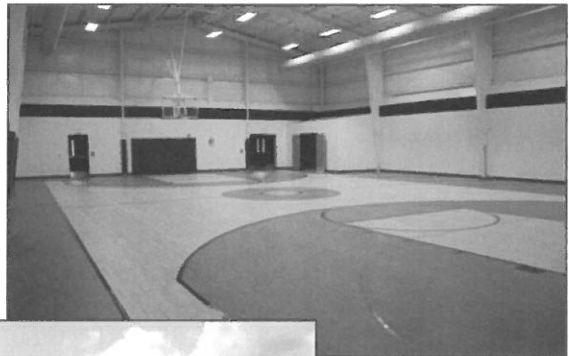
- Mr. Bolen provided complete selective demolition design and construction administration services include the abatement of hazardous materials of asbestos removal. The facility was designed to house a future vehicle maintenance garage, administrative offices and car dealership showroom.
- The demolition included removal of the leaking roof and repair / replacement of the metal deck, replacement of all roof drains and overflow scuppers.
- The approximate 5,000 square feet facility underwent extensive selective demolition of structural elements of replacing lintels over garage doors to replacement of water damaged concrete masonry units.
- A complete demolition of all electrical, plumbing and mechanical above and below the floor slab was conducted for the future development and complete renovation.

2. EXPERIENCE

**Glennville
State College**
Science Hall
Renovations / Addition
1990



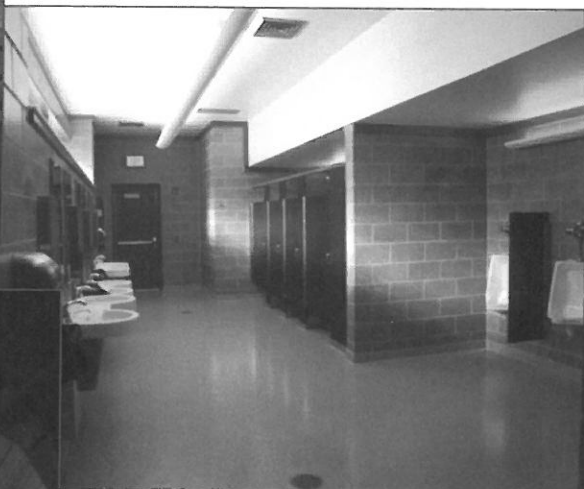
- The Addition / Renovation was designed for the Science Hall Facility including, 4,000 sq. ft. of new additional space, and approximately 6,000 sq. ft. of renovated space for the facility for upgrades of code compliance and ADA handicap requirements for the university. This addition / renovation was delivered to the University on schedule and on budget.
- The demolition included hazardous materials removal of asbestos and lead based paint. The facilities were fully demolished and removed from the site. Other elements removed included mechanical and electrical demolition and upgrades.
- This was accomplished primarily during the spring and summer session, the user was not interrupted for the construction process that maximized the efficiency of facility design.
- The addition blended into the existing facility design aesthetically and integrated this facility with the property and the surrounding landscape, which was a primary requirement of the University. The design team delivered a Renovation design program that included asbestos removal, patching of existing plaster, replacement of existing doors, a new EPDM roof and electrical upgrades. The Addition to the facility consists of four floors with offices, restroom facilities, and ADA elevator and mechanical space.



New Pocahontas County Wellness Center Marlinton, West Virginia

The Wellness Center was constructed adjacent to, but separate from, the existing Marlinton Elementary School. The Pocahontas County Board of Education provided the property in exchange for daytime use of the gymnasium, which the school did not have. The new construction is approximately 13,000 square feet and includes a middle-school size gym and basketball court; a wellness center; two multi-purpose rooms, one of which can be divided into two classroom size rooms with a folding, sound attenuating partition; a racquetball court; and a warming kitchen/concession stand.

The facility is configured with separate entries to allow use by the school and the public at all times of the day while limiting or prohibiting interaction of the various groups.



BURNSVILLE I-79 REST AREAS

Burnsville, West Virginia

The rest areas consist of three buildings, the rest area building, the vending building and the maintenance building. Each of the buildings was constructed with a local West Virginia stone façade.

The existing rest area buildings were demolished and replaced with these new state-of-the-art facilities. The main lobby framing consists of a tube steel beam, glulam beams and timber decking.



EASTERN WEST VIRGINIA REGIONAL AIRPORT TERMINAL BUILDING

Martinsburg, West Virginia

This facility replaced an existing, undersized terminal building at the airport. The building houses normal airport terminal building functions such as rental car space, restaurant ticket counters, baggage areas and offices.

The building structure consists of structural steel frame with metal stud infill. Both the air side and the public side have attractive brick and limestone exteriors, with a standing seam metal roof.



SMITHVILLE ELEMENTARY ADDITIONS AND RENOVATIONS

Smithville, West Virginia

Existing classroom building was renovated, new entrance and classrooms were constructed. Multipurpose Room was renovated and new kitchen addition was constructed beyond the other.

Experience – Electrical Infrastructure

Holly River

Engineering Design

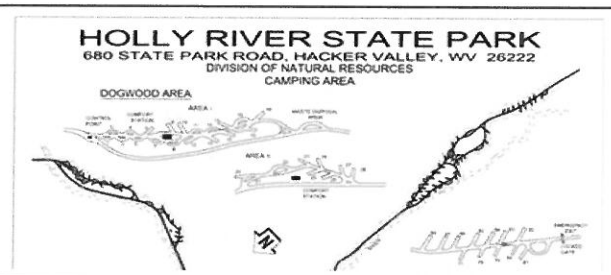
- High Voltage Electric Design
- MEP Construction Design
- Emergency Restoration

MEP Budget: Phase I - \$1.16M

Phase II - \$1.25M

Location: Hacker Valley, WV

Park Size: 8, 101 acres



Project Goals:

In 2012, Super Storm Sandy incapacitated the park's main electrical supply. The goal of the project was to return electric supply to the park.

Site study and work to meet the owner's initial goal uncovered potential hazards.

Thus, Miller Engineering developed a (2) phase approach to meet both the current goal and address code issues.

Project Outcome Highlights:

- Designed and developed a plan restoring power to the park and reduce future outages
- Coordinated with both the DOH and the DEP to ensure prompt completion.
- Designed solution opting for burying (2.5 miles) of electrical supply cable in conduit to prevent future outages.

The project goals were met by addressing both the short and long term goals of the owner as well as and the electrical needs of the park.

Project Reference: Bradley S. Leslie, PE

Assistant Chief State Parks Section
324 Fourth Ave., Charleston, WV 25303
Phone: (304) 558-2764

Hawk's Nest Lodge

Engineering Design

- Electrical
- Mechanical
- Plumbing

Total Project Budget: \$ 1.3M

Location: Ansted, West Virginia

Facility Area: 28, 500 ft²



Project Goals:

Hawks Nest HVAC replacement focused on the patron rooms within the lodge but the designs for the public areas were also included to prepare for future funding.

A building on the National Register of Historic Places, the replacement had to be accomplished with minimal impact on the building façade and structure. As an ARRA/WVDOE funded project, it had an extremely short design period and delivery requirement.

Project Outcome Highlights:

- One of the first projects in the state to utilize Variable Refrigerant Flow (VRF) systems for heating and cooling as a solution for switching between warming and cooling.
- The lodge can now provide both heating and cooling, as both the lodges see the heaviest guest loads during the fall shoulder months in which 30 degree outside temperature swings occur.

The project was completed on-time and within budget. The construction period was shortened by (20%) by the owner after bidding, making our construction administration all the more critical in delivering the project.

Project Reference: Brad S. Leslie, PE

Assistant Chief State Parks Section
324 Fourth Ave., S. Charleston, WV 25303
Phone: (304) 558-2764 - Ext. 51826

Experience – Facility Location

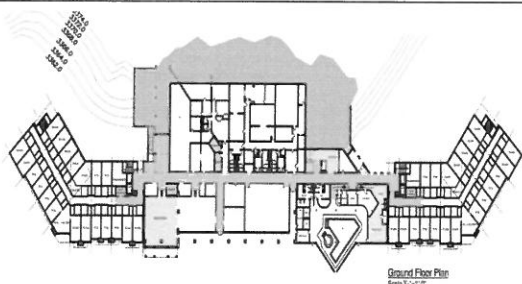
Canaan Valley Resort

Construction Administration (CA) for New Construction for North/South Wings

- Mechanical, Electrical, Plumbing
- HVAC
- Hydronic Pipe

Total Project Budget: \$ 30M

Location: Davis, West Virginia



Project Outcome Highlights:

- Technical support for problem resolution throughout project.
- Warranty and issue support
- Quality of work evaluation during construction.

Providing owner representation to ensure MEP quality assurance and designed construction. The project is currently in close-out.

Project Reference: Brad S. Leslie, PE

Assistant Chief State Parks Section
324 Fourth Ave., S. Charleston, WV 25303
Phone: (304) 558-2764, Ext. 51826

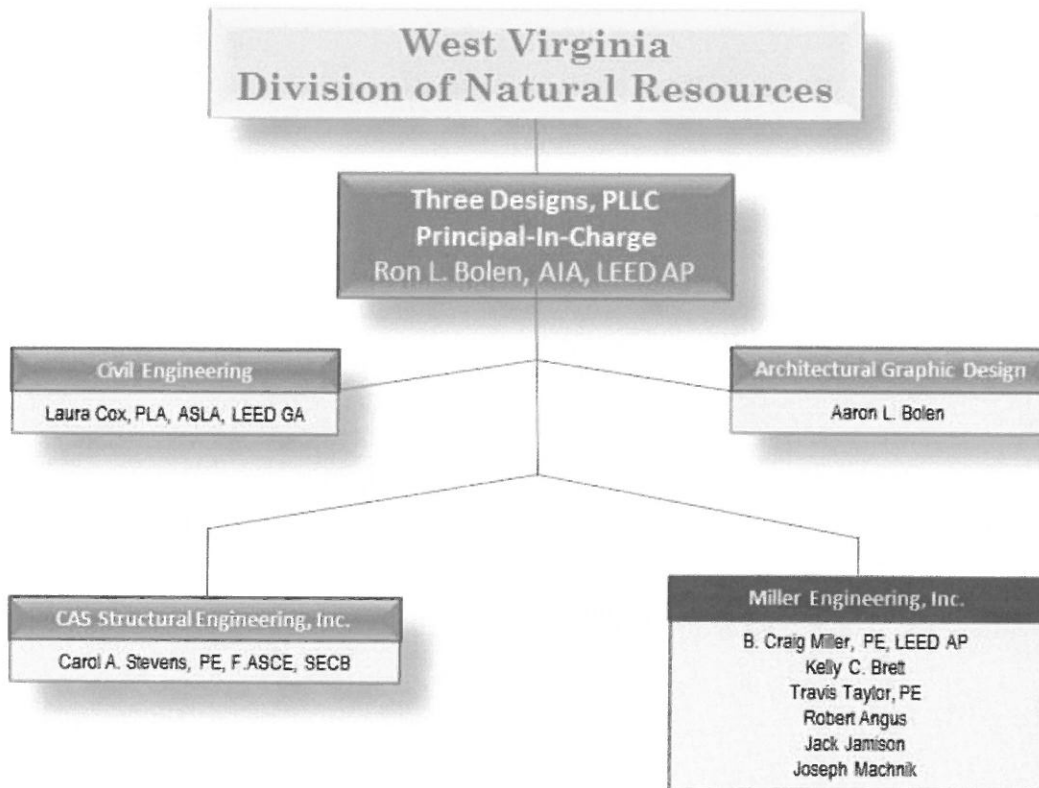
Project Goals:

Part of keeping a large project on schedule is the ability of MEI's staff to provide rapid and complete response to any contractor questions. MEI was brought in by the owner to provide MEP construction administration to provide quality assurance and 3rd party MEP design review.

MEI's staff was very involved in keeping the project on schedule and in accordance with the construction documents. Detailed construction observation helps identify to minimize downtime and change orders.

3. PERSONNEL

The Three Designs Team brings together outstanding capabilities to meet and exceed the requirements for the West Virginia Division of Natural Resources project. We have compiled a team of professionals with extensive architectural and engineering experience to provide the Demolition and Disposal of the three remaining Modular Sleeping Units Project with a cohesive balance of personnel suited to the needs of this project.



The qualifications and experience of our key team members will provide for a professional, dynamic mix well suited to the West Virginia Division of Natural Resources' needs for this project. A resume for key members of the Three Designs' Team is included on the following pages.

3. PERSONNEL

Ron L. Bolen, AIA, LEED AP Principal in Charge

Office Location:

Charleston, WV

Experience: 43 years**Education:**

B.S. Architectural
Design,
Parkersburg Community
College / WVU Ext.,
1980

Registration:

Registered Architect,
No. 3135, West Virginia,
1999

American Institute of
Architects (AIA)

LEED, AP (USGBC)
LEED® Accredited
Professional,
BD+C, 2012

General Qualifications

Mr. Bolen brings over 40 years of design and project coordination experience to the project. Mr. Bolen insists on listening to the client's needs and bringing those desires to reality in a distinctive, functional and state of the art facility – on time and within budget. Project types include a multitude of small and large-scale designs, including office, hotel, and multipurpose facilities, augmented by varied experience in a wide range of opportunities in renovation and new facility design. Truly innovative designs are based on a well-articulated program developed in a close and continuing interaction between the client and the design team.

While at Three Designs, Mr. Bolen has focused most of his time on design and coordination with clients while maintaining a close relationship with the design team. Increasingly, Mr. Bolen's facilities have become the result of collaborative problem solving with other design professionals and our clients. The results are design solutions that balance interests, intentions and objectives with concepts that reflect quality, integrity and aesthetic appeal.

Relevant Experience**Little Kanawha Bus Facility, Mt. Zion, West Virginia**

Responsible in providing a complete design and detailed construction administration services include the demolition of five buildings on the farm land, including remediation of hazardous materials of asbestos and lead based paints and the construction of a pre-engineered metal and brick construction, sited on the available property allowing for future expansion needs. Mr. Bolen provided architectural and construction-phase support for the demolition of the facilities on the farm and for a new, 10,000-square foot, pre-engineered, metal and brick bus maintenance and transit operations facility.

The 4,500-square-foot administrative area will include offices, a conference room, a money-counting room, and a driver-training room, and the 5,500-square-foot bus maintenance area will include storage for seven buses. The facility will be ADA-compliant and is being designed to achieve a high degree of energy efficiency. Services include site survey and design, geotechnical testing, environmental compliance, utility coordination, bid documents, bid-phase support, and as-built drawings.

Good News Mountaineer Garage, Charleston, West Virginia

Responsible for the Architectural Design, Document Preparation, and Construction Administration for the selective demolition of a garage facility for

3. PERSONNEL

renovation to the Auto Repair garage and administrative office facility for this non-profit organization. The Good News Mountaineer Garage purchased a facility that required a major demolition ranging from selective structural to mechanical / electrical complete systems removal to hazardous materials remediation for the renovation of an upgraded facility.

Harrison County Emergency Squad Facility

As Principal / Project Manager, Mr. Bolen provided services from pre-design through selective demolition to all phases of document preparation, consultant coordination, client relations, and construction administration. The design replaced an existing emergency squad facility.

The facility was designed with four truck bays, office spaces, and conference / training room, meeting hall, toilet and kitchen facilities.

Hilltop Baptist Church / Community Center

As Principal / Project Manager, Mr. Bolen provided services from pre-design through selective demolition to all phases of document preparation, consultant coordination, client relations, and construction administration. The design demoed, replaced, renovated and converted an existing elementary school facility into a newly renovated church / community center.

The demolition portion was the original aged portion of the facility, which had failed to the extent the floor structure, was collapsed. Approximately 5,000 SF of the 19,900 SF facilities were demolished and a new sanctuary, lobby, daycare and restrooms were designed in lieu of the removed portion. Other areas were renovated into classrooms, community center, kitchen and offices.

3. PERSONNEL

Aaron L. Bolen

Graphic Design Manager

Office Location:

Charleston, WV

Experience: 20 years

Education:

2003, Concord College

Registration:

AIA Allied Member

General Qualifications

Mr. Bolen has spent the last ten years working to develop the graphic design development and to implement the drawing development for projects. Since 1994, he has been responsible for overseeing and auditing many aspects of graphic design for Three Designs' projects. For building projects, he ensures that all graphic design features have been incorporated in order to meet the appropriate levels of the owner's requirements. Project types include: University, Administrative offices, Vehicle Maintenance Facilities, Interior spaces, Churches, Equipment Layouts and Storage Buildings.

As a designer, he has been able to solve visual / communication problems or challenges. In doing so, he has identified the communications issue, gathered and analyzed information related to the issue, and generated potential approaches aimed at solving the problem. As a graphic designer, he understands the social and cultural norms of the audience and develops visual solutions that are perceived as relevant, understandable and effective.

Mr. Bolen has a thorough understanding of production and rendering methods. Some of the technologies and methods of production are drawing, offset printing, photography, and time-based and interactive media (film, video, computer multimedia). Frequently, as a designer, he is called upon to manage color in different medias.

Relevant Experience

Good News Mountaineer Garage, Charleston, West Virginia

Graphic Design Manager. Responsible for the 3D graphic representations of the proposed Auto Repair garage and administrative office facility for this non-profit organization. The Good News Mountaineer Garage graphic three dimensional image representations assisted the client in fund raising and visualization of the finished product.

WVU - P, Parkersburg, West Virginia

Graphic Design Manager. Responsible for the 3D graphic representations of the proposed maintenance and office facility for the WVU branch at Parkersburg. The graphic three dimensional image representations assisted the client in visualization of the finished product.

WVSU, Institute, West Virginia

Graphic Design Manager. Responsible for the 3D graphic representations of the proposed maintenance, classroom, laboratories and office facility for the WVSU at Institute. The graphic three dimensional image representations assisted the client

3. PERSONNEL

in visualization of the finished product.

Lincoln County Annex, Hamlin, West Virginia

Graphic Design Manager. Responsible for the graphic three dimensional image representations of the proposed office facility and maintenance facility for the Lincoln County Commission at Hamlin. The graphic representations assisted the client and the contractors in visualization of the finished product.

Little Kanawha Bus Maintenance Facility, Mt. Zion, West Virginia

Graphic Design Manager. Responsible for the graphic three dimensional image representations of the proposed office facility and maintenance facility for the Little Kanawha Bus at Mt. Zion. The graphic three dimensional image representations assisted the client and the contractors in visualization of the finished product.

Church of God Youth Center Annex, Princeton, West Virginia

Graphic Design Manager. Responsible for the graphic three dimensional image representations of the proposed Youth Center facility for the COG at Princeton. The graphic three dimensional image representations assisted the client and the contractors in visualization of the finished product.

3. PERSONNEL

Laura Cox, PLA, ASLA, LEED GA

Landscape Architect/Planner

Office Location:

Charleston, WV

Experience: 34 years

Education:

B.S., 1978, Landscape
Architecture, West
Virginia University
Certificate, 1995,
Computer Aided
Drafting, Putnam
County Technical Center

Registration:

Landscape Architect,
Virginia, 1987
NICET III Transportation-
Highway Construction,
West Virginia, 1983
Registered Landscape
Architect, West Virginia,
2008
Licensed Landscape
Architect,
New Jersey, 2010
LEED Green Associate,
2010

General Qualifications

Ms. Cox is a Registered Landscape Architect with over 30 years of experience in the fields of landscape architecture and land planning. She has knowledge of all phases of design from site analysis and conceptual planning through construction documentation, permitting and administration. Her design experience includes large scale site preparation and grading, drainage analysis, storm water conveyance and detention, and utility and infrastructure design.

Ms. Cox has an extensive background in site and land use planning for counties and municipalities including, feasibility studies, review and evaluation of preliminary and final subdivision plans, special exceptions, rezoning applications, yield studies, special use permits and client representation at public hearings and meetings with civic groups.

Relevant Experience**Little Kanawha Bus Facility, Mt. Zion, West Virginia**

Landscape Architect / Civil Designer. Responsibilities include providing a complete landscaping design, site and civil design aspects of a pre-engineered metal and brick construction, sited on the available property allowing for future expansion needs. Ms. Cox provided landscape architecture, and construction-phase support for a new, 10,000-square foot, pre-engineered, metal and brick bus maintenance and transit operations facility. The facility is designed to be completely ADA-compliant.

Good News Mountaineer Garage, Charleston, West Virginia

Responsible for complete landscaping design, site and civil design for the newly renovated Auto Repair garage and administrative office facility for this non-profit organization. The Good News Mountaineer Garage accepts donations of vehicles that are repairable for a reasonable amount of money. These donated cars are then distributed to families with low incomes for transportation to work.



Carol A. Stevens, P.E. Structural Engineer

EDUCATION

West Virginia University, BSCE, 1984

Chi Epsilon National Civil Engineering Honorary

The Pennsylvania State University, ME Eng Sci, 1989

PROFESSIONAL REGISTRATION

P.E.	1990	Pennsylvania
P.E.	1991	West Virginia
P.E.	1994	Maryland
P.E.	2008	Ohio

BACKGROUND SUMMARY

2001 – Present	President, Structural Engineer CAS Structural Engineering, Inc.
1999 – 2001	Structural Engineer Clingenpeel/McBrayer & Assoc, Inc.
1996 – 1999	Transportation Department Manager Structural Engineer Chapman Technical Group, Inc.
1995 – 1996	Structural Engineer Alpha Associates, Inc.
1988 – 1995	Structural Department Manager Structural Engineer NuTec Design Associates, Inc.
1982 – 1988	Engineer AAI Corporation, Inc.

PROFESSIONAL ASSOCIATIONS

American Society of Civil Engineers
National Society of Professional Engineers
American Concrete Institute
American Institute of Steel Construction
West Virginia University Department of Civil and
Environmental Engineering Advisory Committee
WVUIT Department of Civil Engineering Advisory Committee

CIVIC INVOLVEMENT

ASCE Christmas in April Project
Engineer's Week Speaker

EXPERIENCE

West Virginia, State Capitol Complex, Governor's Mansion: Structural analysis and design in addition to evaluation report for modifications and renovations to several areas of mansion. Building is on State Historic Register.

West Virginia, State Capitol Complex, Main Capitol Building Dome: Exploratory investigation of structural steel components of Lantern Level of dome and development of contract documents for repairs. Construction is currently under contract. Building is on State Historic Register.

West Virginia, State Capitol Complex, Building 3: Structural design and construction administration of repairs to limestone canopy.

West Virginia, State Capitol Complex, Main Capitol Building Parapet: Exploratory investigation of limestone/brick parapet/balustrade of Main Capitol Building to determine cause of movement/cracking/leaks.

West Virginia, Spruce River Volunteer Fire Department, Boone County: Structural design of additions and renovations to existing volunteer fire department.

West Virginia, Kanawha County Schools: Structural design of additions to George Washington, Sissonville, Herbert Hoover, South Charleston and Nitro High Schools.

West Virginia, Hampshire County Courthouse Elevator: Designed structure for incorporation of elevator into existing courthouse building.

West Virginia, Upshur County Courthouse: Designed renovations to 3-story building addition, renovations to existing 1899 building main entrance and dome structure.

West Virginia, Eastern West Virginia Regional Airport: Designed foundations and structural steel framing for new 2-story terminal building.

West Virginia, Star USA Federal Credit Union: Designed foundations and roof framing for new one-story commercial building.

West Virginia, Mt. Calvary Baptist Church: Designed foundations and floor framing for new activities building.

PO Box 469 • Alum Creek, WV 25003-0469 **PHONE** 304-756-2564 **FAX** 304-756-2565 **WEB** www.casstruceng.com

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A WEST VIRGINIA CERTIFIED DBE CONSULTANT • CERTIFIED IN THE PRACTICE OF STRUCTURAL ENGINEERING

WV VA KY OH MD PA

Technical Bid for:
West Virginia Division of Natural Resources
Demolition of Existing Sleeping Units (CEOI 0310 DNR1500000008)

PREVIOUS EXPERIENCE

West Virginia, State Capitol Building: Designed structural system to replace deteriorated reinforced concrete slab at landing on north side of Capitol steps.

West Virginia, Johnson Ave Professional Building: Structural design of new 9,400 SF steel framed office building.

West Virginia, Covenant House: Structural design of new 3-story, 13,700 SF steel frame and light-gauge steel roof truss building.

West Virginia, Sissonville Library: Structural design of new 7,000 SF branch library. Structure consisted of wood framing.

West Virginia, Cabell Huntington Hospital Boiler Mezzanine: Structural analysis and testing of existing reinforced concrete mezzanine with significant degradation from brine tank leakage. Developed new structural system to replace existing concrete mezzanine utilizing steel framing and steel grating.

West Virginia, North Fork Hughes River Water Treatment Plant: Designed reinforced concrete structure for new water treatment facility.

West Virginia, Beckley Wastewater Treatment Plant: Designed reinforced concrete tanks and masonry support structures for new wastewater treatment plant.

West Virginia, Morgantown High School Additions: Designed steel framing and foundations for science classroom, cafeteria and gymnasium additions to existing education complex.

West Virginia, Grafton High School Addition: Designed steel framing and foundations for new science classroom addition to existing high school.

Pennsylvania, Metropolitan Edison Company, Headquarters: New 80,000 SF two-story office addition to existing complex.

Pennsylvania, York County Government Center: Structural analysis and design of 1898 former department store converted to county government offices. Interior renovations included adding floor framing at mezzanine level, analyzing and redesigning deficient floor framing, and adding new elevators. Exterior renovations included complete façade rework to recreate original appearance.

Pennsylvania, Defense Distribution Region East: Structural engineering and design for a 33,000 SF Hazardous Materials Storage Warehouse.

Maryland, U.S. Army Corps of Engineers, Baltimore District, Administration Building: Seismic design of new 10,000 SF masonry building.

Pennsylvania, Carlisle Syntec: Design of foundation supports for 800,000 lb rubber vulcanizing machine; enlargement of foreman's office including new framing to support mechanical equipment on roof; new monorail installation; extension of existing gantry rail.

Pennsylvania, Engel Worldwide: Steel framing and foundations for new 12,000 SF two-story office building; design of crane beams and columns for adjacent 60,000 SF crane building.

Pennsylvania, AMP IMF: Structural design for the renovation and conversion of a stamping facility into an integrated manufacturing facility (IMF) housing operations for stamping as well as blow molding processes.

Texas, York International: Structural survey of existing building structure for modifications to incorporate large testing and manufacturing areas for mechanical equipment.

Maryland, Columbia 100: Design of structural steel framing for new two-story 43,000 SF office building.

Pennsylvania, York Federal Savings and Loan Association/New Service Corporation: Design of steel framing, reinforced concrete retaining wall and foundations for new 14,400 SF two-story office building.

Pennsylvania, Yorktowne Parking Garage: Study of reinforced concrete/steel framed parking garage.

Pennsylvania, Blakey Yost Bupp & Schaumann: Re-construction of a 3-story 10,200 SF, fire damaged urban building and conversion into law offices.

Pennsylvania, Queensgate Theaters: Structural analysis of existing mall area for conversion to movie theaters.

Pennsylvania, College Misericordia: Structural design of new 50,000 SF student resident hall utilizing precast concrete planks and masonry bearing walls.

Pennsylvania, Homewood Suites: Structural and foundation design for new two-story hotel.

Pennsylvania, Comfort Inn: Structural and foundation design of new 5-story hotel.

Pennsylvania, Glatfelter Insurance: Design of steel framing and foundations for new 30,200 SF building.



B. Craig Miller PE, LEED-AP

President • Principal Engineer

Founder of Miller Engineering in 2003, he serves as President and Principal Engineer; Craig has more than (20) years of experience in project solution and design.

During his employment with WVU, he was directly involved with approximately \$130 million in new capital construction. Experienced in a wide range of projects and building types, including: renovations and adaptive reuse for building systems; he can add value to projects by leading the team to design constructable solutions. He is experienced at working with both owner's and teams to complete project goals.

Profile

President

- Design of MEP, Fire, Data, and Project Solutions
- Project Personnel Management
- Business Operations and Financial Management Oversight
- Quality Assurance and Control

Project Highlights

- \$75M in MEP Projects Completed to Date
- Multiple Project Experience with Buildings Aged 70+ years
- Metropolitan Theater Historic Renovation
- Bartlett House Phased Adaptive Renovation
- West Virginia Capitol Building Renovation
- Veteran's Memorial and Reflecting Pool

Professional History

2003- Present	Miller Engineering, Inc.	President and Principal Engineer
2002-2003	Casto Technical Services	Existing Building Services Staff Engineer
2001-2002	Uniontown Hospital	Assistant Director of Engineering
1995-2001	West Virginia University	Staff Engineer
1990-1995	BOPARC	Caretaker, Krepps Park
1983-1988	University of Charleston	Electrician/HVAC Mechanic

Education

1995	West Virginia University, BS-Mechanical Engineering
1988	University of Charleston, BA-Mass Communications

LICENSE/CERTIFICATION

- Professional Engineer (West Virginia, Pennsylvania, Maryland, and Ohio)
- Licensed Master Plumber
- LEED-AP Certified



Kelly C. Brett

Applied Technology Coordinator

As a project coordinator, Kelly oversaw design coordination efforts on many general construction projects of varying scope and size. These projects have provided Kelly with experience in construction and the integration of multidiscipline construction projects. Kelly is an **Autodesk Revit Certified Associate** and is responsible for Miller Engineering's Building Information Modeling initiative. Kelly has extensive experience in providing design visualization services to enhance the communication between Architect/Engineer and the client. He provides General Trades, HVAC, Mechanical, Plumbing, and Electrical design services for Miller Engineering along with estimation, and construction administration services.

PROFILE

Coordination of General Trades, Mechanical, Electrical, and Plumbing Systems

- Design of General Trades, Mechanical, Electrical, and Plumbing Systems
- Design Visualization
- BIM Coordination
- Submittal Review
- RFI Review and Response

PROFESSIONAL HIGHLIGHTS

- 1,000,000 SF Primary/Secondary Renovation and New Construction
- 500,000 SF Higher Education Renovation and New Construction
- UHS Middle School Renovation - Project Manager
- Adjunct Professor of 2D/3D Autocad® and Solidworks®

EMPLOYMENT HISTORY

2013-Present	Miller Engineering, Inc.	Applied Technology Coordinator
2013-Present	Fairmont State University	Adjunct Professor
2007-2012	Alpha Associates, Inc.	CAD Coordinator/Project Manager
2004-2004	Fairmont State University	Adjunct Professor
2002-2007	Alpha Associates, Inc.	Architectural Technician

EDUCATION

2002 Fairmont State University, BS – Architectural Engineering Technology

CERTIFICATION

- Autodesk Revit Certified Associate



Travis Taylor, PE

Staff Engineer

Experience in project management facilitates Travis's ability to create and design constructable projects. Prior to joining the Miller Engineering team he was directly responsible for managing \$10 million in electrical construction budgets. His experiences encompass both new construction and renovation. Travis maintains professional competencies by attending seminars and continuing education classes.

As a staff engineer, he provides HVAC, Mechanical, Plumbing, Electrical, and Fire Protection design solutions and services for our clients. Travis's hands-on construction experience enables him to provide engineered solutions for all types of building's fire protection and suppression requirements.

Profile

Staff Engineer

- Design of MEP, Fire, Data, and Phone Systems
- Constructable Design and Materials Evaluation
- Site Evaluation and Mechanical System Review
- Submittal and RFP Review
- RFI Coordination, Review, and Response
- Construction Observation

Project Highlights

- WVU Football Stadium Scoreboard
- Electrical Contractor Project Manager for the *Louis Johnson VA Hospital* -- 3rd floor Inpatient Renovation
- WVU Temperature Control Upgrades
- Adaptive Renovation of Urlings General Store into Apartments
- Pipestem state Park Switchgear, Piping, and Fire Alarm Upgrades
- WVU Eiesland Hall Fire Alarm and Sprinkler Upgrades
- Bartlett House Fire Alarm and Sprinkler System Design

Professional History

2011-Present	Miller Engineering, Inc.	Staff Engineer
2006-2011	Tri-County Electric, Co.	Project Manager

Education

2006 West Virginia University, BS – Mechanical Engineering

LICENSE/CERTIFICATION

- Professional Engineer - State of West Virginia
- OSHA 10-hour Course: Construction Safety & Health



Technical Bid for:
West Virginia Division of Natural Resources
Wildlife Mgt. Storage Buildings: (CEOI - 0310 – DNR 150000016)



Robert Angus

Construction Project Representative

Expertise in project management is at the forefront of Robert's abilities and during the past (10) years he has been directly involved with over \$30 million dollars of construction projects. Years of maintenance, operations, plumbing, and HVAC construction add valuable knowledge and expertise to our complete assessment process.

Robert's hands-on experience enables him to interface with construction personnel seamlessly alongside engineers and architects. He is adept at preventing, mitigating, and resolving construction issues. He is involved at the site evaluation and estimation phase to enhance outcomes of collaboration for all stakeholders' interest and to help ensure constructable designs which meet project goals.

Profile

Construction Administration

- Construction Estimation and Building Information Modeling
- Site Evaluation, Mechanical System Review
- Submittal Review and Project Planning
- RFI, RFPCO Review and Response

Project Highlights

- 3RD Party Construction Observation – Canaan Valley Resort
- WVU Willowdale Walkway
- Veteran's Memorial and Reflecting Pool
- Blackwater Falls Kitchen HVAC Renovation, Fire/Sprinkler System
- Holly River Electric Project
- Preston County 911 Call Center

Professional History

2009- Present	Miller Engineering, Inc.	Construction Project Representative
2000-Present	Angus Contracting, LLC	Owner/Project Manager
1991-2000	BOPARC	Director of Maintenance

Education

2000	Monongalia County Technical Education Center	Heating, Cooling, and Refrigeration Certification
1996	West Virginia University	Recreation and Parks Administration

LICENSE/CERTIFICATION

- Licensed WV General Contractor
- Licensed HVAC Contractor and Certified Mechanical Contractor
- Licensed Journeyman Electrician
- Licensed Master Plumber
- OSHA 10-Hour Construction Safety & Health



Technical Bid for:
West Virginia Division of Natural Resources
Wildlife Mgt. Storage Buildings: (CEOI - 0310 – DNR 150000016)



Jack Jaminson

Code Professional

Jack brings (15) years as an electrical/building inspector and over (25) years of experience in the commercial electrical construction industry. Through his experience, he is familiar with many local and state code enforcement officials. His knowledge and experience are valuable resources to Miller's complete assessment process.

Profile

Design and Construction Observation of Electrical Systems

- Facility Review, Code Research, and Project Evaluation
- Field Observations and Issue Resolutions

Project Highlights

- Board Member of the West Virginia Code Officials
- Founder and Secretary of the West Virginia Division of the International Association of Electrical Inspectors
- IAEI Ohio Chapter – Membership Chair

Professional History

2010- Present	Miller Engineering, Inc.	Code Professional
1999-2010	Megco Inspections	Chief Inspector
1972-1998	Jamison Electrical Construction	Electrician

Education

1971 Fairmont State College, BS-Engineering Technology-Electronics

LICENSE/CERTIFICATION

- Master Code Professional, IAEI Master Electrical Inspector, Class C Electrical Inspector – WV, PA, MD, & OH
- ICC Commercial Building, Building Plans, Commercial Plumbing, Residential Energy, and Accessibility Inspector/Examiner
- WV Master Electricians License
- NCPCCI-2B, 2C, 4B, 4C: Electrical & Mechanical General/Plan Review
- OSHA 30 Hour Course: General Industry
- NFPA Code Making Panel 14 – NEC 2014 Edition



Joseph Machnik

MEP Designer

Joe's is our in house specialist for AutoCAD, MEP and Revit MEP. He provides design modeling, drafting, and supervised design services and construction support.

Profile

Drafting Design of Mechanical, Electrical, Plumbing, and Fire Safety Systems

- CADD Coordination of New Construction and Renovation Designs
- Revit MEP Drafting

Professional History

2010 – Present Miller Engineering, Inc.

MEP Designer

EDUCATION

2008 Penn State – Fayette, AS - Building Engineering Systems Technology: *Building Environmental Systems Technology*

2007 Penn State – Fayette, AS - Building Engineering Systems Technology: *Architectural Engineering Technology*

4. PROJECT APPROACH

Three Designs' approach to the West Virginia Division of Natural Resources' Demolition and Disposal of the three remaining Modular Sleeping Units can and will be consistent with the strategy employed by the company on all its professional service design projects.

MODULAR SLEEPING UNITS DEMOLITION AND DISPOSAL PROJECT

Should we be tasked with developing a design/construction package for Demolition and Disposal of the three remaining Modular Sleeping Units Project, the following approach will be followed. This approach is described in two components – our project plan and the tools by which we intend to accomplish the West Virginia Wildlife Resources Section's aspirations for your project.

PROJECT MANAGEMENT

Communication is paramount to the success of any project. Communication is built as a result of open lines, phones, emails, faxes, etc., but especially face to face. And the main factor of communication is not talking, but listening to the needs and wishes of the client / users.

Successfully produced projects are the result of establishing trust with the client that the Three Designs' Team will commit to meeting the client's goals, schedule and budget concerns in a timely, comprehensive manner. Establishing this trust is the initial objective of the design team and may be achieved through providing creativity, diligence, and attentive service.

Through initial interviews and meetings, the design team will seek to maximize concurrent input from the West Virginia Division of Natural Resources Officials to gain insight into the rationale for establishing communications as follows:

Goals of the project – Will include criteria that will be used by the West Virginia Division of



Natural Resources Officials to determine a successful project.

Performance criteria - among those to be explored:

- Future Needs Functions of the Site
- Energy usage of affected facilities
- Continuity of Services to Facilities
- Circulation of the Campus during Demo
- Security

Project scope control – We are ascertaining that the architectural program and conceptual design will address needs and goals of the West Virginia Division of Natural Resources.

a. Existing Building systems needs for maintaining the existing systems. Systems may include building envelope access, circulation, and heating, ventilation, and air-conditioning systems.

b. Building materials preferences and cost comparisons that could be considered. This input amounts to early value engineering for selection of key materials to be considered and incorporated. This can save and will save your project considerable time and expense to obtain this initial input.

SCHEDULE AND BUDGET MANAGEMENT

Budgets and Schedules are critical elements of your project and which require attention to detail in order to keep in check. All projects are subject to unknown or undiscovered factors that cause potential change orders. To control these factors, it is very important for our team in discovering all of the facts about the project as possible.

4. PROJECT APPROACH

b. Architectural Program Verification

a. Budget control. Our experience with budgets has been effective for our client's. Mr. Bolen's experience will lead the team in controlling the project from overruns and discovery and dealing with any unknown conditions of the project.

Successful demolition projects begin with all members of the project team developing a good understanding of the limitations that the project budget establishes, and then working to remain within those budget constraints.

It is also very important to the budget that the patching in of utilities, access to the existing remaining facilities, and circulation of the campus is maintained before and during the building demolition be controlled by the budget and needs of the project.

d. Schedule control. As with selecting reasonable materials and systems that meet the design criteria, intent, and budget, it is also critical to ensure that the design components are developed within a designated schedule that meets the West Virginia Wildlife Resources Section's needs.

PROJECT EXECUTION

For execution of this project, Three Designs will create a work plan that identifies accomplishing the following project phases/tasks/ progression:

a. Facilitate a project kick-off conference

The objective will be to introduce the design team to the history of the project, the progress made to-date, and for the WV DNR to present the concept design and/or vision.

This meeting is to be interactive and to familiarize the design team with the WV DNR's goals, ideas, and expectations for the project. It is an opportunity to become more familiar with design team members and their particular expertise.

1. Identify key existing operation needs.
2. Confirm the WV DNR's approach to:
 - a. Operation during the demolition
 - b. Security
 - c. Safe working and living environment
 - d. Cost effectiveness
3. Explore precepts for existing systems to be maintained
4. Understand budget limitations
5. Understand schedule / confirm milestones

c. Concept Design Verification

1. Develop an understanding of the demolition context and preferences of the WV DNR
2. Develop an understanding of the site design, including accessibility, vehicle, and pedestrian circulation
3. Develop insight and confirmation of spatial relationships
4. Develop material preferences
5. Explore budget ramifications of the demolition

d. Schematic Design

1. Refine site layout, vehicular/ pedestrian access, ancillary spaces, and parking
2. Identify preliminary hydrology concept
3. Refine demolition plan
4. Identify all structural system elements for protection of adjacent structures
5. Identify existing facilities HVAC, electrical lighting/power and plumbing systems
6. Submit schematic package, including drawings, outline specifications to the WV DNR's project team for initial review and comment

e. Design Development

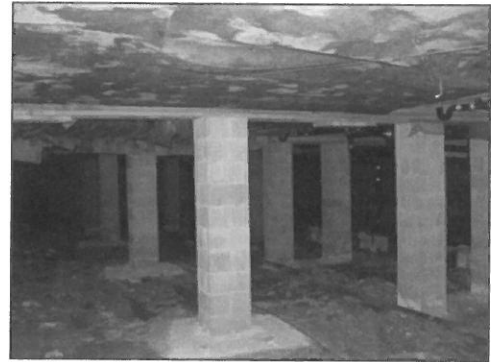
1. Define site, hydrology, landscape designs
2. Refine demolition plan, and schedules, building envelope, exterior elevations with dimensional confirmation
3. Refine structural systems for protection of adjacent facilities and site amenities

4. PROJECT APPROACH

4. Refine the patching of utilities for adjacent building HVAC, building controls, plumbing, electrical lighting, emergency power, security systems and fire protection systems
5. Prepare a preliminary cost estimate based on the design as established along with the refinements of this phase.
6. Submit the design development package, including drawings and edited specifications to the WV DNR's project team for review.

i. Post-Construction

1. Using record documents created in the field by the Contractor, Three Designs will refine the as-built drawings to reflect final field-constructed conditions.



f. Construction Documents Phase

1. Finalize site, site hydrology, landscaping designs and documentation
2. Finalize the demolition plan layout
3. Finalize the utilities connections for HVAC, plumbing, electrical, fire protection, security systems and documentation
4. Finalize the refined cost estimate
5. Submit the demolitions documents package including drawings, and project manual to the WV DNR's project team for final review and acceptance

g. Construction

1. Three Designs' approach to construction contract administration and interaction is more fully explained later in this section. The designs team will assist the Contractor by expediting reviews of shop drawings and submittals; by answering requests for information or clarification on the documents.
2. Make periodic site visits to monitor and report to the WV DNR on the progress and conformance of the work during construction.
3. Perform a formal inspection of the work at the substantial completion stage and prepare a punch-list of deficiencies or items needing further attention.
4. Perform a pre-final inspection for the purpose of clearing the punch-list items.
5. Perform a final inspection and issue final acceptance.

4. PROJECT APPROACH

Project Approach

Complete Assessment Process approach to every project is our method.

- **Identification, Discovery, and Site Review**

MEI will begin by performing a site visit to evaluate existing utilities. Any existing construction plans and documents will be reviewed and verified in the field as well. MEI's staff will also meet with any of the owner's staff. All utilities that will be affected by the demolition will be identified. Miller Engineering will also meet with the owner to determine the extent at which utilities can be disrupted as far as demolition, length of outages, and areas affected. This information will be shared with the architect and structural engineer.

- **Solutions Design and Planning**

After determining the initial scope of work, MEI will meet with the owner and other affected stakeholders to determine a "plan of attack", and set priorities. The design will be implemented specifically to meet budget, minimize utility outages, and make the facilities safe for demolition. The design will also take account of any utility re-configuring that may need to be performed to keep downstream facilities in service. MEI's design will be planned and phased with all consultants and the owner, to make sure work is performed in the proper sequence.

- **Quality Assurance**

MEI offers the most thorough MEP construction administration services in the area. MEI's staff will be present during pre-bid, bidding to answer any questions by addendum, and also during kick-off and progress meetings. Miller Engineering believes in making site visits to assure the work is being performed in accordance to the project documents. Any submittals, if applicable, will also be returned as soon possible. Miller Engineering practices putting "boots on the ground" as much as needed to ensure successful project completion.

- **Project Close-out**

As-built drawings will be required to ensure proper documentation of all utilities, particularly underground utilities. MEI will be present to prepare a punch list for both substantial and final completion. MEI staff will work with the owner and architect to bring the project to close to the owner's satisfaction.

4. PROJECT APPROACH

Communication

Miller Engineering utilizes a communications process and procedure designed to minimize downtime while ensuring neither the Owner, nor design team, or contractor is left out of the loop.

Milestones of the project will be outlined and upon notification of an award of a project, Craig Miller, lead engineer determines the "best fit" for the project and communicates this with the owner.

Communication plan with architect and structural engineer:

MEI understands the communication required with the DNR, and project managers, and the importance of keeping all stakeholders well-informed. Prior to the project beginning, all team members will conference, and a final communication structure will be given to the DNR.

Our team members listed below will also communicate with the architect and the structural engineer by both e-mail and phone to ensure documentation and project schedules. The chart below shows an example of the main point of contact with a back-up contingency so that the owner can have assurance of consistent communication.

Owner Communication Plan:

Milestone	Main	Back-up	Copied On
Design	Craig Miller	Travis Taylor	Joe Machnick & Kelly Brett
Estimating	Craig Miller	Rob Angus	Travis Taylor
Bidding	Craig Miller	Travis Taylor	Rob Angus
Construction	Rob Angus	Travis Taylor	Craig Miller
Warranty	Rob Angus & Craig Miller	Travis Taylor	Joe Machnick

Code Officials Communication Plan:

Milestone	Main	Back-up	Copied On
Public Utilities	Rob Angus & Travis Taylor	Craig Miller	Travis Taylor & Rob Angus

5. ATTACHMENTS

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: Three Designs, PLLC
Authorized Signature: [Signature] Date: October 14, 2014

State of West Virginia
County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 14 day of October, 2014

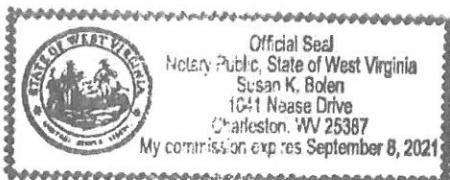
My Commission expires [Signature], 2021.

AFFIX SEAL HERE

NOTARY PUBLIC

[Signature]

Purchasing Affidavit (Revised 07/01/2012)



CERTIFICATION AND SIGNATURE PAGE

By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained 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.

THREE DESIGNS, PLLC

(Company)

Ron L. Bolen PRESIDENT

(Authorized Signature) (Representative Name, Title)

304-807-0841 10/14/14

(Phone Number) (Fax Number) (Date)



Certificate

*I, Natalie E. Tennant, Secretary of State,
of the State of West Virginia, hereby certify that*

Three Designs, PLLC

has filed the appropriate registration documents in my office according to the provisions of the West Virginia Code and hereby declare the organization listed above as duly registered with the Secretary of State's Office.

*Given under my hand and
the Great Seal of West Virginia
on this day of
July 29, 2014*



Natalie E. Tennant

Secretary of State

The West Virginia Board of Architects

certifies that

RON L. BOLEN

is registered and authorized to practice
Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued
by the authority of this board.

Certificate Number [REDACTED]

The registration is in good standing until June 30, 2015.



Leya C. Lewis

Board Administrator

WEST VIRGINIA UNIVERSITY



THE COLLEGE OF ENGINEERING


KNOW ALL PERSONS BY THESE PRESENTS
THAT THE UNIVERSITY OF WEST VIRGINIA BOARD OF TRUSTEES
UPON THE RECOMMENDATION OF THE FACULTY
HAS CONFERRED UPON

CRAIG MILLER

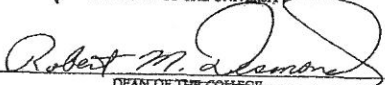
THE DEGREE OF

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING


WITH ALL THE RIGHTS, HONORS AND PRIVILEGES THEREUNTO
APPERTAINING. WITNESS THE SEAL OF THE UNIVERSITY
AND THE SIGNATURES OF ITS DULY AUTHORIZED OFFICERS
HEREUNTO AFFIXED THIS FOURTEENTH DAY OF MAY,
NINETEEN HUNDRED NINETY-FIVE



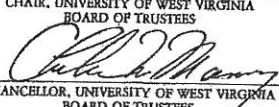
PRESIDENT OF THE UNIVERSITY



DEAN OF THE COLLEGE

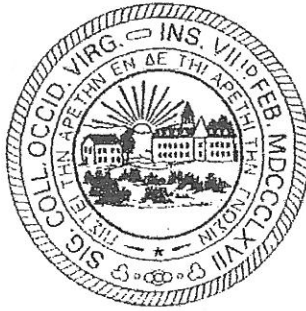


CHAIR, UNIVERSITY OF WEST VIRGINIA
BOARD OF TRUSTEES



CHANCELLOR, UNIVERSITY OF WEST VIRGINIA
BOARD OF TRUSTEES

WEST VIRGINIA UNIVERSITY



COLLEGE OF ENGINEERING AND MINERAL RESOURCE


*Know all persons by these presents
that the West Virginia University Board of Governors
upon the recommendation of the faculty
has conferred upon*

TRAVIS WAYNE TAYLOR

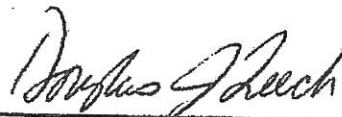
The Degree of

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

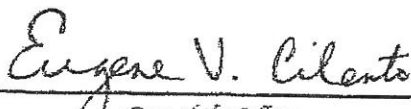
*With all the rights, honors, and privileges thereunto
appertaining. Witness the seal of the university and
the signatures of its duly authorized officers hereunto
affixed this fourteenth day of May,
two thousand six.*



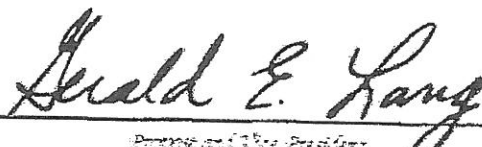
President of the University



Chair, West Virginia University
Board of Governors



Dean of the College



Provost and Vice President

State of West Virginia



Fairmont State College

This Diploma Makes Known

*That the Fairmont State College Board of Governors upon the recommendation
of the Faculty of the College has conferred upon*

Kelly Chandler Brett

the degree of

Bachelor of Science in Engineering Technology

*In Testimony thereof, the signatures of the duly authorized officers of Fairmont State
College and of the Faculty of the College have been affixed.*

Given under the seal of Fairmont State College, this eleventh day of May, 2002.

A handwritten signature in cursive script, appearing to read "D. G. Brett", written over a horizontal line.

PRESIDENT

A handwritten signature in cursive script, appearing to read "Steve Brooks", written over a horizontal line.

CHAIR, BOARD OF GOVERNORS

A handwritten signature in cursive script, appearing to read "Franklin H. Fisher", written over a horizontal line.

PROVOST AND VICE PRESIDENT FOR ACADEMIC AFFAIRS

A handwritten signature in cursive script, appearing to read "Blair Montgomery", written over a horizontal line.

PROVOST, COMMUNITY AND TECHNICAL COLLEGE

State of West Virginia



Fairmont State College This Diploma Makes Known

*That the West Virginia Board of Regents upon the recommendation
of the faculty of the College has conferred upon*

Jack E. Jamison, Jr.

the degree of

Bachelor of Science

*In Testimony thereof, the signatures of the duly authorized officers of the
West Virginia Board of Regents and of the Faculty of the College and
the seal of the West Virginia Board of Regents have been affixed.*

Done at Fairmont, West Virginia, this 15th day of May, 1971.

WEST VIRGINIA BOARD OF REGENTS

Earle T. Andrews

PRESIDENT OF THE BOARD OF REGENTS

Samuel Woodard

CHANCELLOR

E. R. Leaster

PRESIDENT OF COLLEGE

William A. Boren

DEAN OF ACADEMIC AFFAIRS

The Pennsylvania State University



By Authority of the Board of Trustees and
Upon Recommendation of the Faculty, Hereby Confers Upon

Joseph M. Machnik

the degree of

Associate In Engineering Technology

College of Engineering

In recognition of the completion of the Major in
Architectural Engineering Technology

In Testimony Whereof the Undersigned Have Subscribed Their Names
and Affixed the Seal of the University this month of May, 2007.

James S. Broadhurst
President of the

Graham B. Spanier
President of the University

Ray D. Vries
Executive Vice President

CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

*The West Virginia State Board of Registration for Professional Engineers
having verified the person in responsible charge is registered in
West Virginia as a professional engineer for the noted firm, hereby certifies*

MILLER ENGINEERING, INC.

C02108-00

Engineer in Responsible Charge: BRIAN MILLER - WV PE 015184

*has complied with section §30-13-17 of the West Virginia Code governing
the issuance of a Certificate of Authorization. The Board hereby notifies you of its
certification with issuance of this Certification of Authorization for the period of:*

July 1, 2013 - June 30, 2014

providing for the practice of engineering services in the State of West Virginia.

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE,
PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.



IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF
REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA
UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT

Your ACTIVE PE renewal fee has been received...

Your ACTIVE PE renewal fee has been received. Your pocket card indicating you are entitled to practice engineering in West Virginia until June 30, 2014 may be detached and used until that date unless invalidated as a result of Board audit of your renewal form or formal disciplinary action.

IMPORTANT REMINDERS:

1. Please include your WV ACTIVE PE license number on any correspondence to this office.
2. Please sign the back of this pocket card and carry the registration with you.
3. You are required to immediately notify the Board, in writing, of the following: loss or theft of license or seal, any name change, any address change, or any employment change.

BRIAN C MILLER



West Virginia State Board of Registration
for Professional Engineers
300 Capitol Street, Suite 910
Charleston, West Virginia 25301
304-558-3554 Phone
800-324-6170 Toll Free

THIS IS YOUR RENEWAL PAYMENT RECEIPT
(in addition to your secondary records of either a
canceled check or credit card statement, as well
as a confirmation email and printed confirmation
page if renewing via our website)
PLEASE SAVE THIS FOR YOUR RECORDS



West Virginia State Board of Registration
for Professional Engineers

BRIAN C MILLER



This is to certify that the above named **PROFESSIONAL ENGINEER**
has met the requirements of the law, is duly registered and is
entitled to practice engineering in the State of West Virginia.

EXPIRES June 30, 2014



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come Greeting
"Know Ye" That The State Board of Registration for Professional Engineers
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity and Discretion of

Travis M. Taylor

DOES IN PURSUANCE OF AUTHORITY VESTED IN IT

by law hereby certify that he having submitted
satisfactory evidence of his ability and experience is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number 20244

"To Hold" and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand of the
Seal of the Board at the Capitol in the
City of Charleston,
This 23rd day of May
in the year of our Lord 2013
and of the State
the One Hundred Forty-Ninth

Members of the Board

Loren D. Timms, Jr. *Richard E. Dignas*

Blair S. Scha *William E. Viers*



Hereby Certifies that



Jack E. Jamison, Jr.

has demonstrated professional qualifications through a written examination based on the National Electrical Code® along with successful completion of field practice and documented expertise in required categories and has hereby achieved certification as

Master Electrical Inspector

Effective through:

September 30, 2013

Certification Identification No.



Secretary to the International Board
International Association of Electrical Inspectors



International Code Council
500 New Jersey Avenue, NW
Washington, DC 20001

The individual named hereon is CERTIFIED in the categories shown, having been so certified pursuant to successful completion of the prescribed written examinations.

Jack E. Jamison, Jr.
Not valid unless signed by certificate holder.
ICC Certification attests to competent knowledge of codes and standards.



International Code Council
500 New Jersey Avenue, NW
Washington, DC 20001

The individual named hereon is CERTIFIED in the categories shown, having been so certified pursuant to successful completion of the prescribed written examinations.

Jack E. Jamison, Jr.
Not valid unless signed by certificate holder.
ICC Certification attests to competent knowledge of codes and standards.

Jack E. Jamison, Jr - 5171444

Accessibility Inspector/Plans Examiner - Exp. 10/31/2014
Certified Building Official - Exp. 10/31/2014
Commercial Building Inspector - Exp. 10/31/2014
Commercial Mechanical Inspector - Exp. 10/31/2014
Electrical Inspector - Exp. 10/31/2014
Master Code Professional - Exp. 10/31/2014
Mechanical Plans Examiner - Exp. 10/31/2014
Residential Combination Inspector - Exp. 10/31/2014

INTERNATIONAL
CODE COUNCIL

Jack E. Jamison, Jr - 5171444

Building Plans Examiner - Exp. 10/31/2014
Combination Plans Examiner - Exp. 10/31/2014
Commercial Electrical Inspector - Exp. 10/31/2014
Commercial Plumbing Inspector - Exp. 10/31/2014
Electrical Plans Examiner - Exp. 10/31/2014
Mechanical Inspector - Exp. 10/31/2014
Plumbing Plans Examiner - Exp. 10/31/2014
Residential Energy Inspector/Plans Examiner - Exp. 10/31/2014

INTERNATIONAL
CODE COUNCIL