Expression of Interest for A/E Services for Structural Repairs at Various State Parks

DNR190000006











Chapman Technical Group

PO Box 469 Alum Creek, WV 25003-0469

a division of GRW







a division of GRW





1	Project Approach References Required Forms
2	CAS Structural Engineering, Inc.
3	Chapman Technical Group
4	Miller Engineering, Inc.
5	DLM Decisions LLC



PROJECT APPROACH

Review of Existing Plans and Conditions:

The CAS Team, which developed the existing Plans and Specifications for some repairs at Twin Falls and Hawks Nest, will review and compare them to the current building codes. After concluding this review, several CAS representatives will conduct a thorough site visit to analyze the current conditions as they relate to the documents. The code has changed since the plans were completed and the team will make the subsequent revisions to the plans and specifications as required. If the Scope of Work has changed since the initial work was completed, this additional work will be included in the bidding documents.

With respect to the work required at the Pipestem Upper Tram Building, the CAS Team will review the existing drawings and conduct site visits are required in order to prepare repair plans for this structure. ADA access to the site will also be incorporated into the design.

During meetings conducted at both park facilities, the CAS Team and the Owner will determine the best method to construct the Work with the least disruption to the park, staff, guests and facilities. Any revisions in work phasing will be reflected in the Construction Documents prior to the Bidding Phase.

Also, during this phase, a comprehensive revision to the cost estimate for both projects is scheduled.

Bidding:

The CAS Team will attend the Pre-Bid meeting at all project sites. During this phase, we will answer any questions that pertain to the construction documents and assist the Owner with the bid evaluation after the receipt of pricing.

Construction Administration:

During the construction phase of the project, we will participate in periodic progress meetings as needed at the site during to evaluate the progress and report to the Owner. Additionally, CAS will review all pay applications, the CAS Team will review shop drawings, product submittals, and the remediation systems. Foremost, the CAS Team

can evaluate and answer contractor questions, create solutions and adjust the work to overcome the "found" conditions, which are inevitable in repair and renovation projects. The same individuals that were key in developing the construction documents will perform the construction administration functions.

Communication:

For this project, the Project Manager will be the point of contact for the DNR for all communications related to the project. It will be the Project Manager's responsibility to ensure that all project team members receive design directives and are involved in resolving project issues. Having a single point of contact helps minimize confusion and is the most efficient communication method. The Project Manager will also coordinate all progress meetings and site visits during construction and will ensure that all communications are forwarded to the appropriate DNR personnel. Additionally, the Project Manager will communicate with the State Historic Preservation Office for issues related to repairs to the existing structures. For this project, Carol Stevens will be the Project Manager.

Budget Control:

CAS Structural Engineering has an excellent track record of completing projects in budget. Our most recent project, the Twin Falls Kitchen Repairs, came in below budget. Our method of cost control includes developing accurate opinions of cost in the early stages of design, so that decisions regarding the scope of the project can be addressed early when adjustments are easier to handle. We will also develop alternate bid items to ensure that the project stays within the budget. During construction, we work with the contractors to establish a team approach so as silues arise, we can work together to find the most cost-effective solution.

Schedule Control:

We have completed a number of projects for West Virginia State Parks within the allotted schedule. Our Project Manager will establish internal review deadlines with all parties which will ensure compliance with your schedule for bidding and construction. During construction, we will strive to maintain a true team relationship so that issues are resolved quickly with input from all parties.

Experience:

The CAS Team has the experience needed for this important project.

Structural Repairs at State Parks

Structural Repairs DNR 190000006

CAS Project Team Organization Chart

West Virginia Department of Natural Resources



CAS Structural Engineering Carol A. Stevens, PE Project Manager Structural Engineer

Chapman Technical Group

Joseph E. Bird, ASLA Vice President Project Officer

W. Thomas Cloer, III NCARB , AIA Architect

Jason E. Brown, PS Surveyor Miller Engineering, Inc

B. Craig Miller, PE, LEED-AP Relationship Manager President

> Travis Taylor, PE Staff Engineer

Joseph Machnik MEP Designer

lack laminson

Construction Project Representative **DLM Decisions, LLC**

David L. Morris Managing Member Construction Analyst



Jack Jaminson Code Professional



Engineering, Inc.

Chapman Technical Group

a division of GRW



REFERENCES

- Mr. Brad S. Leslie, PE, Chief Engineer
 West Virginia Division of Natural Resources
 324 4th Avenue
 South Charleston, WV 25303
 (304) 558-2764
 Brad.S.Leslie@wv.gov
- 2. Mr. Timothy Lee
 Former Director, Plant Operations and Security at Thomas Memorial Hospital
 Former Project Manager at State of WV, General Services Division
 (304) 372-3047/(304) 532-3569
 leewebwv2@gmail.com
- 3. Mr. William S. Kostelic
 Environmental Historic Preservation Advisor
 FEMA HQ
 500 C Street SW
 Washington, DC 20472
 (202) 304-7731/(330) 360-8749
- 4. Mr. Todd Zachwieja, PE ZDS Design Consultants 281 Smiley Drive St. Albans, WV 25177 (304) 755-0075

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 recei	ived)
Addendum No. 1 Addendum No. 2 Addendum No. 3 Addendum No. 4 Addendum No. 5	Addendum No. 6 Addendum No. 7 Addendum No. 8 Addendum No. 9 Addendum No. 10
discussion held between Vendor's representation	ot of addenda may be cause for rejection of this bid ation made or assumed to be made during any oral tives and any state personnel is not binding. Only the specifications by an official addendum is
CAS Structural Enginee	Ma, Iuc
Company	
Caroll threas	·
Authorized Signature	
2/21/19	
Date	

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

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.
Carol A. Stevens, President Carala Stevens
(Name, Title) A. Stevens, President
(Printed Name and Title) 10 Box 469 Alum Creek, W 25003
(Address)
(304)156-2564 (304)156-2565 (Phone Number) / (Fax Number)
_ Calalane ad 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.
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Firm Profile

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 30 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 30 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.

THE RESERVE THE RESERVE THE PERSON NAMED IN

Carol A. Stevens, PE, F.ASCE

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
P.E.	2010	Kentucky
P.E.	2013	Virginia

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				

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 Chair
West Virginia University Institute of Technology
Department of Civil Engineering Advisory Committee

AAI Corporation, Inc.

CIVIC INVOLVEMENT

ASCE Christmas in April Project Engineer's Week Speaker

RELEVANT EXPERIENCE

West Virginia, Twin Falls Resort State Park Lodge Kitchen, Beams and Wall Repairs: Repairs to existing kitchen floor to repair leaks, anchor spandrel beams to roof and new retaining wall.

West Virginia, Pipestem Sprayground and Recreation Building Demolition: Structural design for new 28,000 SF addition to existing facility, including new entrance lobby, conference areas, sleeping rooms and indoor pool.

West Virginia, Twin Falls Resort State Park Lodge Addition: Structural design for new 28,000 SF addition to existing facility, including new entrance lobby, conference areas, sleeping rooms and indoor pool.

West Virginia, Pipestem State Park Recreation Building: Condition assessment of existing facility which includes the current outdoor pool, laundry and golf club house. Recommendations for repairs and/or partial demolition have been provided to the Owner.

West Virginia, McKeever Lodge at Pipestem State Park: Current projects include complete fire alarm replacement and replacement of outdoor plaza above indoor pool shower/locker rooms, renovation of locker rooms, and structural repairs to columns and beams.

West Virginia, Hawks Nest State Park Lodge: Analysis of structural cracks in lodge building. Work included probes to determine condition of existing connections between structural elements. Subsequent projects have led to preparing construction documents for repairs with some repairs being completed.

West Virginia, Beech Fork State Park Pool, Bathhouse and Cabins: Designed structure for new bathhouse, swimming pool and cabins (while under the employ of Chapman Technical Group).

West Virginia, Moncove Lake State Park Pool: Designed structure for new swimming pool (while under the employ of Chapman Technical Group).

West Virginia, Canaan Valley Resort State Park: Structural investigation and recommendations for repairs to the five (5) existing overnight sleeping facilities.

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

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West Virginia, Cabwaylingo State Forest: Structural evaluation of existing dormitory buildings constructed in the 1950's.

West Virginia, Shinnston Park: Structural design of new outdoor pool.

West Virginia, State Capitol Complex, Holly Grove Mansion: Structural evaluation report for preliminary condition assessment of building structure. Building is on State Historic Register and was constructed in the 1830's.

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. Construction contract for repairs has been completed. Building is on State Historic Register and was constructed in the 1920's and 1930's.

West Virginia, Twin Falls Resort State Park: Structural evaluation of existing recreation building.

West Virginia, Pipestem Resort State Park: Structural evaluation of existing recreation building.

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. Building is on State Historic Register and was constructed in the 1930's.

West Virginia, Historic Putnam-Houser House (Parkersburg): Designed system for stabilization and upgrades to floor framing of building that was constructed in the 1700's.

West Virginia, Upshur County Courthouse: Developed construction documents for structural repairs to main entrance, dome and monumental sandstone columns of 1899 structure. Work was recently completed and received a WVAIA Honor Award for Design Excellence.

Ohio, Mahoning County Courthouse: Completed preliminary structural observation report of exterior façade conditions to recommended phased repairs for terra cotta and granite façade. Building is on State Historic Register and was constructed in the early 1900's.

West Virginia, State Capitol Complex, Building 5: Structural design and analysis for support of new boilers and other mechanical equipment to be placed in mechanical penthouse.

West Virginia, State Capitol Complex, Building 7: Investigation and development of Construction Documents for new elevators.

West Virginia, State Capitol Complex, Building 3: Structural design and construction administration of repairs to limestone canopy. Building is eligible to be placed on State Historic Register and was constructed in the 1950's.

West Virginia, State of West Virginia Office Building #21, Fairmont, WV: Preliminary structural observation report for condition assessment of building structure.

West Virginia, State Capitol Complex, Building 5: Structural design and analysis for support of new boilers and other mechanical equipment to be placed in mechanical penthouse.

West Virginia, Hampshire County Courthouse: Structural design for new elevator for existing historic building.

West Virginia, Shinnston Park: Structural design of new outdoor pool.

PREVIOUS EXPERIENCE

West Virginia, State Capitol Building, North Portico Steps: Designed structural system to replace deteriorated reinforced concrete slab at landing on north side of Capitol steps. Building is on State Historic Register and was constructed in the 1930's.

West Virginia, Beech Fork State Park Pool, Bathhouse and Cabins:

West Virginia, Moncove Lake State Park Pool: Designed structure for new swimming pool.

West Virginia, Upshur County Courthouse Annex: Performed structural evaluation and design for repairs to existing multi-story Annex addition.

West Virginia, Canaan Valley Resort and Conference Center: Structural feasibility study to upgrade lodging units.

PIPESTEM SPRAYGROUND

Pipestem, West Virginia



Project included a new sprayground and bathhouse with pedestrian bridge to provide safe access from McKeever Lodge across the street.

The old swimming pool and recreation center will be partially demolished and the existing upper level toilet rooms will be renovated to provide ADA accessibility.

Work is anticipated to be completed by end of 2019.

Project Owner: West Virginia Division

of Natural Resources

Contact Person: Brad Leslie, PE Contact Phone: (304) 558-2764



STRUCTURAL REPAIRS TO MCKEEVER LODGE AT PIPESTEM RESORT STATE PARK

Pipestem, West Virginia



Structural plaza decks were leaking through to the space below, deteriorating the structural steel. Steel was replaced, new steel framing and metal deck/ concrete slab installed and waterproofing on top of concrete.



Shower/locker/toilet rooms below the front plaza were reconstructed during the project and a new HVAC system for pool dehumidification was also installed.

A large number of the main building columns were deteriorated at the base and needed to be shored, the bottom portion removed and a new steel column section welded in place. Steel beams at the indoor pool were also replaced.

Project Owner: West Virginia Division

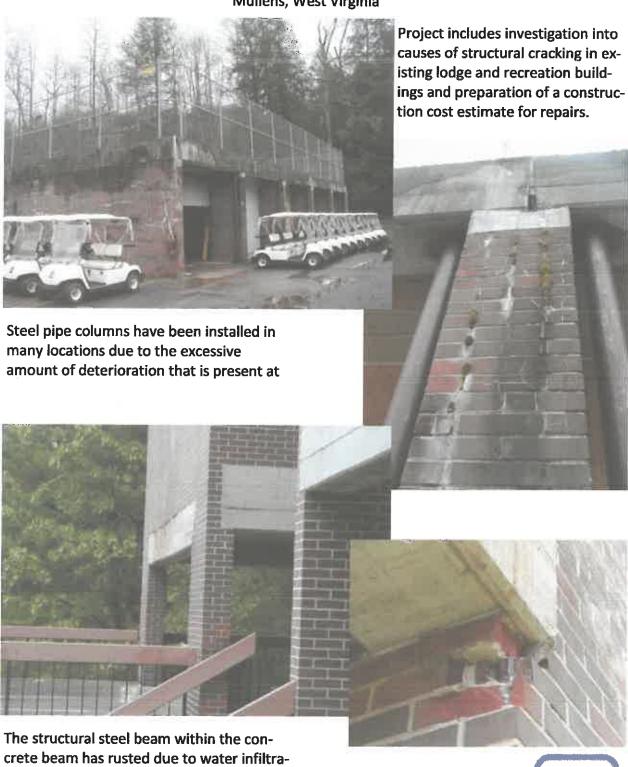
of Natural Resources

Contact Person: Brad Leslie, PE Contact Phone: (304) 558-2764



STRUCTURAL INVESTIGATION TWIN FALLS STATE PARK RECREATION BUILDING & LODGE

Mullens, West Virginia



tion through the wall system. Additionally, the steel beam was not designed for current code-related deflection requirements.

STAIR TOWER #4 STRUCTURAL REPAIRS HAWKS NEST STATE PARK LODGE

Ansted, West Virginia



Project included structural repairs to masonry wall . An expansion joint was placed in the roof but never in the wall, resulting in a crack in the wall below the joint in the roof.



An expansion joint was cut completely through the exterior wall, an angle was installed in the corners of the stair tower and reinforcing steel and grout were installed to reinforce the walls.

Project Owner: West Virginia Division

of Natural Resources

Contact Person: Brad Leslie, PE Contact Phone: (304) 558-2764



BEECH FORK STATE PARK POOL, BATHHOUSE AND CABINS

Barboursville, West Virginia



The project included design of new cabins with exposed glulam scissors roof trusses.

A new pool and bathhouse were also part of the design for the project.





UPSHUR COUNTY COURTHOUSE STONE COLUMN RESTORATION

Buckhannon, West Virginia



The structural sandstone columns were coated with a cementitious coating that helped to deteriorate the natural stone by trapping moisture within the stone.

After the coating was removed, additional areas of the columns and bases required extensive repairs.



The repairs included pinning the columns across cracks, building up architectural elements with Cathedral Stone Jahn Repair Mortars, and also included pinning new stone to the original host stone.





LEWIS COUNTY COURTHOUSE INVESTIGATION AND REPAIRS

Weston, West Virginia

This 1887 courthouse is constructed of brick masonry walls with heavy sandstone foundations and wood roof structure. This project involved several phases, including an assessment phase to detail the repair needs for the facility and a construction cost estimate for these repair items.

The bell tower and cupola framing need structural repairs, some of which were completed during the roofing repair phase of this project. Additional structural roof framing repairs have been identified but the design documents have not been developed at this time.

The roof repair work was completed in the fall of 2011. Structural repairs within the bell tower were completed at that time.

JOB'S TEMPLE

Glenville Vicinity, West Virginia



This log structure was constructed in the 1860's, having begun prior to the Civil War and completed afterward. The years had taken a toll on the main logs/beams at the top of the walls supporting the roof structure.

The uphili wall was exhibiting damage due to the condition of the beam at the top of the wall, allowing the wall to push out from thrust on the deteriorated beam.



The structure was originally constructed of local poplar trees and clay chinking. A replacement log was hand hewn to the required size for the beam on the uphill side. Epoxy repairs were made to the beam on the downhill side. A team of horses brought the log to the site.



WEST VIRGINIA GOVERNOR'S MANSION RENOVATIONS

Charleston, West Virginia



Renovations of this red brick Georgian Colonial 1920's structure was completed in several phases, some by staff of the General Services Division at the State of West Virginia and the remainder by a general contractor. This structure is listed on the National Register of Historic Places.

During the renovations, a number of deficiencies were discovered, some of which had been covered by prior construction and some as a result of prior construction.



The structural repairs were made with masonry, wood framing and steel as required to support the loadings that were anticipated.





FIRST UNITED METHODIST CHURCH

Hinton, West Virginia

Historic church in Hinton dating to 1893 has exterior wall exhibiting outward bowing bother vertically and horizontally. In order to hold wall in current location, temporary bracing was installed.



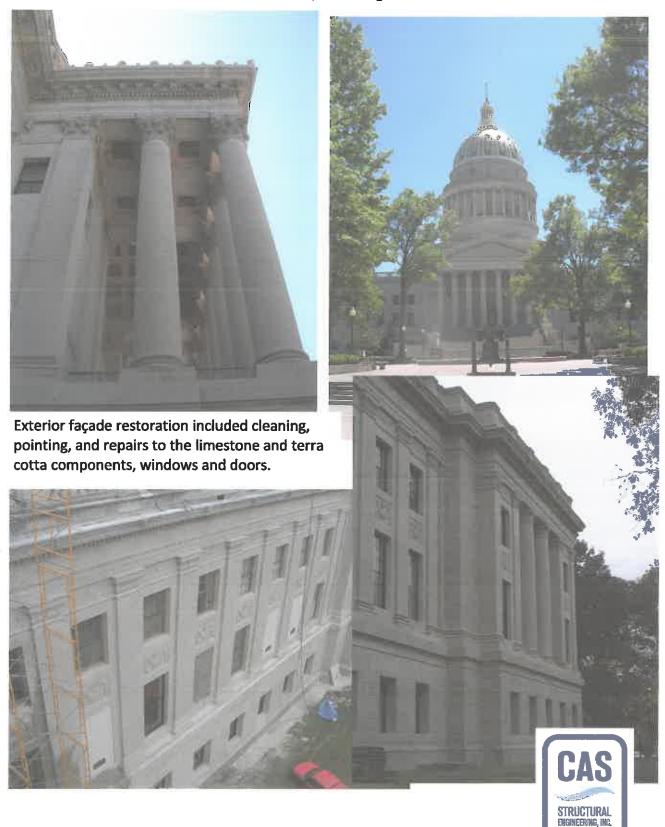


Anchorage of the wall to the floor system will be accomplished with threaded rods and large washers. That work will be performed in the near future.



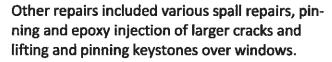
EXTERIOR FAÇADE RESTORATION MAIN CAPITOL BUILDING

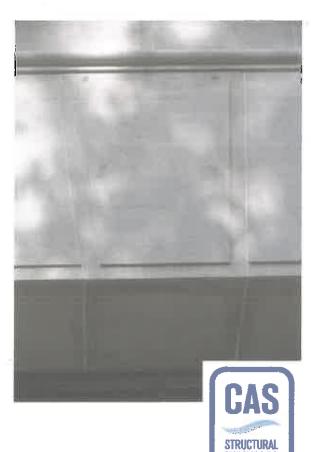
Charleston, West Virginia











COLLETT HOUSE

Beverly, West Virginia



The original portion of this structure was constructed as a log cabin in the 1770's. This project included foundation stabilization and log wall and floor framing repairs.

The foundation had settled over the years. As a result, the rear portion of the building had to be jacked up approximately 6-inches and new foundation supports were installed.



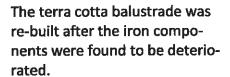
FIRST PRESBYTERIAN CHURCH EXTERIOR FACADE RESTORATION

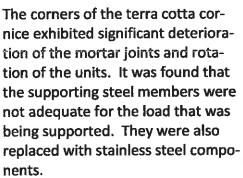
Charleston, West Virginia



The terra cotta and limestone exterior of this 1910's building was in need of being restored to prevent continued damage to the exterior and interior of the build-

ing. The structural steel in the lantern level was replaced with stainless steel members and wind bracing













Established in 1984, Chapman Technical Group has steadily grown into a diverse firm of professionals, many of whom were educated in West Virginia colleges and universities. We have achieved an outstanding reputation for developing high-quality projects, while meeting schedules and budgets.

In 2013, Chapman Technical Group was acquired by the Lexington, Kentucky based A/E firm of GRW, allowing us to provide a wider range of services while expanding our resources. Now, in addition to our offices in St. Albans, Buckhannon, and Martinsburg, West Virginia, as part of the GRW family, we also work in Kentucky, Ohio, Tennessee, and Indiana.

Our architectural group not only designs new buildings from the ground up, but also specializes in renovations and historic restoration projects. Our award-winning landscape architects provide master planning, as well as detailed site design for parks and public spaces projects. In addition to our building studio, our engineering support staff gives us the ability to meet almost any challenge a project may present. All of our mechanical, electrical, plumbing engineering is provided in-house, and our civil engineers work with our landscape architects to provide site designs that are functional while achieving a high level of aesthetics.

Water and sewer system design is accomplished by our environmental engineers, and when on-site wastewater treatment is required, we can do it.

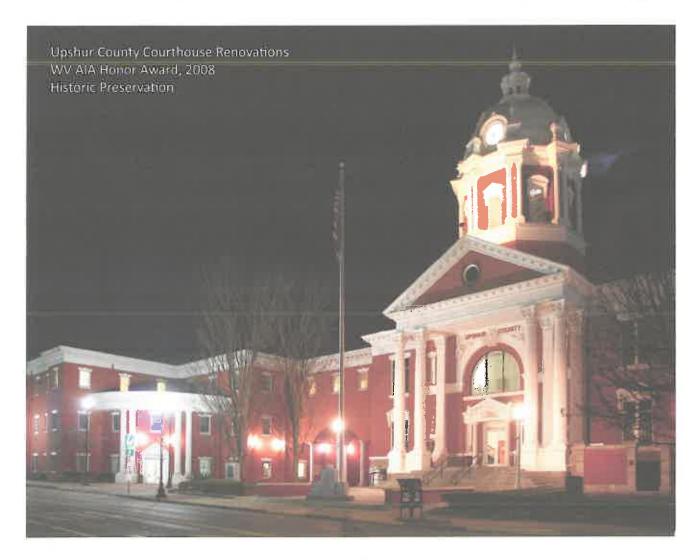
Working with our airport group, we can provide full airport design services, from runway and lighting design, to hangars and terminal buildings.



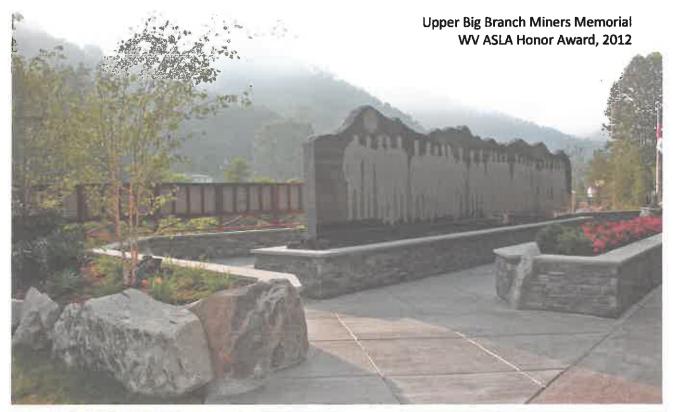
















Years of Experience: 40 Years with Chapman: 33

Education B.S. Landson

B.S., Landsape Architecture, 1978 West Virginia University

Registration

Architect: WV, KY

Affiliations

Council
of Landscape
Architectural
Registration Boards

WV Chapter, American Society of Landscape Architects

Joseph E. Bird, ASLA Vice President Project Manager

Experience

Joe has been involved in a wide range of projects in his 30+ years of experience. In addition to his landscape architectural design experience, he has served as Project Manager for many major multi-discipline projects ranging from campus development projects to ski area renovations. His experience includes coordinating the efforts of various local, state, and federal agencies.

WV DOH District One Master Plan; Charleston, WV

Project Manager and Designer for the development of a master plan for the West Virginia Division of Highways District One campus to plan for future building sites, pedestrian and vehicular circulation, and the relocation of overhead utilities underground. The project also included the implementation of sustainable stormwater principles including bioswales, pavement infiltration where possible, and underground stormwater detention, to help alleviate chronic flooding which has plagued the project area.

Smith Street Streetscape; Charleston, WV

Project Manager and Landscape Architect for the design of a streetscape project as part of the overall development of the District One Campus project. The plan includes placing overhead utilities underground, new street lights, new sidewalks and curb ramps, and new street trees.

Covington Streetscape Project; Covington, KY

Project Manager and Landscape Architect for the design of seven blocks of streetscape in Covington, Kentucky. The plan includes placing overhead utilities underground, new street lights, new sidewalks and curb ramps, and new street trees. The project also included the design of new traffic signals and pedestrian crossing signals.

Scottsville Streetscape Project; Scottsville, KY

Landscape Architect for the design of two blocks of streetscape in Scottsville, Kentucky. The plan includes placing overhead utilities underground, new street lights, new sidewalks and curb ramps, and new street trees.

WV DOH Alternative Transportation Projects

Project Manager and Designer for the Alternative Transportation and Trail projects throughout West Virginia, including sidewalk projects, streetscape projects, and recreational trail projects. Managed and designed several phases of the ongoing streetscape projects for the City of St. Albans.



Years of Experience: 24 Years with Chapman: 24

Education

B.A., Art and Interior Design, 1993 University of Charleston

Registration

Allied Member, American Society of Interior Designers

Affiliations

Allied Member, ASID

St. Albans Rotary

Thomas Memorial Hospital Foundation

Gabriel Project of WV

Sharon L. Chapman Interior Design

Experience

Sharon has extensive experience in space planning and interior design and has worked on a variety of projects ranging from industrial facilities to schools and high-end professional offices. She offers a unique perspective, understanding the need to provide durable, low maintenance finishes, while enhancing the basic architectural design with just the right aesthetic touch.

Jane Lew Elementary School Addition; Jane Lew, WV Interior Designer for the addition and renovation project that included five new classrooms, and an updated office suite.

Smithville Elementary School Addition; Smithville, WV Interior Designer for the addition and renovation of the Smithville Elementary School project which included the design of a new classroom wing and a new kitchen addition adjacent to the remaining buildings.

Man K-8 Addition; Man, WV

Interior Designer for the Man K-8 Addition which included the design and space planning for a 9,360 square-foot addition to the existing school. The addition included four new classrooms, a 2,400 square-foot gymnasium/multipurpose room, ADA compliant restroom facilities.

Pocahontas Wellness Center; Marlinton, WV

Interior Designer for a community wellness center which included a middle-school size gym and basketball court; a wellness center; two multi-purpose rooms; a racquetball court; and a warming kitchen/concession stand.

Tube Park Lodge; Canaan Valley, WV

Interior Designer for the New Tube Park Lodge and other existing facilities upgrades that were part of a wide range of improvements to the ski area at Canaan Valley Resort State Park. The new tubing lodge features a wood burning fire place, restrooms, a concession stand for hot drinks and an outdoor patio with wood-burning fire pit.

Blackwater Falls State Park Cabins; Davis, WV

Interior Designer for thirteen new cabins in the environmentally-sensitive Blackwater Falls State Park. One of the Goals in Developing the project was to have as little environmental site impact as possible. Each cabin has four bed rooms and a central-living, dining, kitchen area. Wood floors and trim as well as a large stone fireplace give these modern cabins a more rustic feel.



Years of Experience: 16 Years with Chapman: 11

Education B.S., Architecture, 2001 University of Tennessee

RegistrationArchitect: WV, VA

Affiliations

National Council of Architectural Registration Boards

WV Chapter, American Institute of Architects

St. Albans Property and Maintenance Board

St. Albans Historic District Committee Member

W. Thomas Cloer, III, NCARB, AIA Project Architect

Experience

Tommy has extensive architectural experience, having worked with clients on programming / planning, budget analysis, design, construction documents, meeting coordination, bidding / negotiation services, construction phase services, and code compliance. He regularly provides leadership in architectural design and project management for new building design and renovation projects such as K-12, parks and recreation, and government and municipal facilities.

Jane Lew Elementary School Addition; Jane Lew, WV

Project Architect for the design of an addition and renovation project that included five new classrooms, an updated office suite, and a new building entrance and bus loop. Toilet rooms were also renovated and new floor finishes were installed throughout the building. A new HVAC system serves the addition, and a new sprinkler system and fire alarm were installed for the entire school. New ceilings and lighting were also provided throughout.

Smithville Elementary School Addition; Smithville, WV
Project Architect for the addition and renovation of the Smithville
Elementary School project which included the demolition of two
buildings in the existing complex and the design of a new classroom
wing and a new kitchen addition adjacent to the remaining buildings.
The new additions were designed to join with the existing classroom
wing and multipurpose building to create a single facility under one roof.

Man K-8 Addition: Man, WV

Project Architect for the Man K-8 Addition which included the design and space planning for a 9,360 square-foot addition to the existing school. The addition included four new classrooms, a 2,400 square-foot gymnasium/multipurpose room, ADA compliant restroom facilities, and a small landscaped courtyard. The design and construction was accomplished in 10 months and nearly 15% below budget.

Tube Park Lodge; Canaan Valley, WV

Project Architect for the New Tube Park Lodge and other existing facilities upgrades that were part of a wide range of improvements to the ski area at Canaan Valley Resort State Park. The new tubing lodge features a wood burning fire place, restrooms, a concession stand for hot drinks and an outdoor patio with wood-burning fire pit.

Blackwater Falls State Park Cabins; Davis, WV

Project Architect for thirteen new cabins in the environmentallysensitive Blackwater Falls State Park. One of the Goals in Developing the project was to have as little environmental site impact as possible. Each cabin has four bed rooms and a central-living, dining, kitchen area. Wood floors and trim as well as a large stone fireplace give these modern cabins a more rustic feel.



Years of Experience: 22 Years with Chapman: 12

Education

B.S., Architecture, 1995 University of Tennessee

Registration

Architect: WV, KY

Affiliations

National Council of Architectural Registration Boards

WV Chapter, American Institute of Architects

Awards

Honor Award, WV AlA Upshur County Courthouse

Merit Award, WV AlA I-79 Burnsville Rest Area

Publications

Structure Magazine, February 2010 "A Gem in the Mountains" Upshur County Courthouse Restoration

Phillip A. Warnock, NCARB, AIA Project Architect

Experience

Phill is an award-winning architect with extensive experience, having worked with clients on programming / planning, budget analysis, design, construction documents, meeting coordination, bidding / negotiation services, construction phase services, and code compliance. He is especially skilled in renovation and historic restoration projects for government and municipal facilities.

Pocahontas Wellness Center; Marlinton, WV

Project Architect for a community wellness center, 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. 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.

Coal Heritage Discover Center; Mt. Hope, WV

Project Architect for the Coal Heritage Discovery Center, which is a rehabilitation of the historic Patteson Building in downtown Mt. Hope. The Coal Heritage Discovery Center will consist of offices, meeting rooms, an historic information center, a small theater space, a public lobby area, a gift shop, and a small café area. There will also be an outdoor patio which can be used as exterior café seating.

State Road Commission Building; Charleston, WV

Project Architect for the renovation of the historic State Road Commission Building for the West Virginia Division of Highways. The 40,000 square-foot building houses offices and support facilities for the local highway district. In addition to a complete interior makeover that included a historic information center and radio studio, the building also received new exterior doors, windows, roofing and a new elevator. A skywalk connects the building to a new Headquarters Building that was constructed beside the State Road Commission Building.

School Experience

Phill has also been involved in the design of school projects in West Virginia and Tenneessee, and was the Architect of Record for the Man K-8 project in Logan County.



Years of Experience: 23 Years with Chapman: 8

Education

A.S., Land Surveying, 2002 Glenville State College, WV

Registration

Professional Surveyor: WV, KY, VA, PA

Affiliations

WV Society of Professional Surveyors

Jason E. Brown, P.S. Professional Surveyor

Experience

Highways

Established control, site surveying, topographic surveying, courthouse research, drawing production, Right-of-Way Questionnaires, bore hole stake out, and all surveying associated with the initial and final design of WV highways.

Site Development

Experienced in all types of surveying associated with site development, to include control, topographic boundaries, research, and drawing production. Projects include military complexes, public housing, commercial development, industrial and institutional complexes, churches, resorts and public facilities throughout the state.

Schools

Associated surveying for new schools, additions, athletic fields, and sidewalks projects.

Parks and Recreation

Associated surveying for projects including swimming pools, bathhouses, cabins and support facilities for the West Virginia Division of Natural Resources and similar facilities for county and municipal park systems.

Water/Wastewater/Stormwater Systems

Associated surveying for the design of water systems, sanitary sewer systems, and stormwater systems, including treatment facilities for both private and public systems throughout the state. Also, field experience in the inventory and collection of attribute data using GPS equipment for uploading to GIS databases.

Boundary Surveys

Experienced in full boundary surveys and ALTA surveys for military complexes, private residences, prison facilities, commercial sites, and all boundaries associated with various engineering projects throughout the state.

LANDSCAPE ARCHITECTURE





Pipestem Sprayground Pipestem Resort State Park

3405 Pipestem Drive Pipestem, West Virginia 25979

As part of the design team of CAS Structural Engineering, Chapman Technical Group helped plan and design a new sprayground for Pipestem Resort State Park for the West Virginia Division of Natural Resources. Chapman Technical Group was responsible for the overall planning and layout of the facility which includes a new sprayground, bathhouse, parking, and a pedestrian bridge linking the site to the McKeever Lodge across the street.

As part of the project, the old swimming pool and recreation center will be demolished and transformed into additional outdoor recreation space for the park.







WV Division of Natural Resources
Beech Fork State Park Cabins

324 Fourth Avenue South Charleston, West Virginia

Chapman Technical Group designed \$4.5 million worth of improvements at the state park near Barboursville including a 50-meter swimming pool, bathhouse, six modern cabins, and campground upgrades. The cabins provide the warmth of natural materials such as wood and stone, yet are fully equipped with modern conveniences including air conditioning and microwaves.













WV Division of Natural Resources
Blackwater Falls Cabins

324 Fourth Avenue South Charleston, West Virginia

Chapman Technical Group was selected to provide the architectural, civil engineering, and landscape architectural design to construct 13 new cabins in the environmentally-sensitive Blackwater Falls State Park. The project also included site development and utility system upgrades. One of the goals in developing the project was to have as little environmental site impact as possible. A plan to cluster the cabins was developed that would minimize the footprint of the cabin development. As much as possible, the existing grade remained unchanged to preserve the natural vegetation. A natural planting plan was developed using indigenous or naturalized plant species, with a special effort made to provide habitat vegetation for endangered animal species in the area. As part of the project, a low-impact wastewater treatment plant was designed and will result in water clean enough to discharge into the natural waterways of the park. More than a mile of potable water line was also upgraded, which will benefit other areas of the park as well.



WV Division of Natural Resources
Canaan Valley Resort State Park - Tube Park Lodge



Chapman Technical Group is leading a team of specialists in developing a wide range of improvements at the ski area of Canaan Valley Resort State Park. The upgrades include new facilities that will have a major impact on the resort's operations; others will be little-noticed but important improvements to the resort's infrastructure. A new tubing park will be developed and will feature a 12lane tube run in excess of 800 feet long with a vertical drop of 90 feet. A new boardwalk conveyor will carry tubers back up the hill. A tubing lodge will feature a wood-burning fireplace, restrooms, and a concession stand for hot drinks, and an outdoor patio will include a wood-burning fire pit. A storage building will house tubes and snow grooming equipment. In the same area, a wobble clay shooting range will be developed as a seasonal activity. Another major improvement will be a new beginners slope and ski school area. This new slope will be easily accessible by beginning skiers and will include new snow guns

and lighting for night skiing. A boardwalk conveyor will carry skiers back to the head of the slope, enabling them to ski at their skill level as long as they want. The main ski lodge, the Bear Paw Lodge, is relatively new, but the older buildings at the base of the ski slopes will get a much-needed face lift. New wall and floor finishes, new furnishings, new lighting and upgrades to the heating and ventilation systems, will make the lodge buildings much more comfortable. The pub will likewise be upgraded with an expanded bar area. Outside, a new plaza with a fire pit will provide more options for outdoor seating. Important infrastructure improvements will include upgrades and major maintenance to the existing ski lifts; snow-making waterline repairs and upgrades; new snow guns; and major storm drainage improvements. A new waterline from the Canaan Valley golf course ponds will provide expanded snowmaking capabilities.



WV Division of Natural Resources Mason County Fish Hatchery

324 Fourth Avenue South Charleston, West Virginia



Above: The Mason County Fish Hatchery building houses fish rearing facilities as part of WVDNR's hatchery operations at the Robert C. Byrd Locks and Dam. Right: Piping manifolds will distribute both well water and reservoir water to a variety of fish tanks.



Located at the Robert C. Byrd Locks and Dam at Apple Grove, West Virginia, the Mason County fish hatchery building is the final component to the hatchery complex that also includes a series of fish rearing ponds and a reservoir to supply the ponds. The project also included the design and construction of two residences to be used by hatchery personnel.

The 9,200 square-foot fish hatchery building is a masonry and steel structure housing the actual hatching components, as well as offices and other support facilities. More than half of the building is open space to accommodate the fish hatching egg rack and a variety of rearing tanks that hold the fish until they are mature enough to be transferred to ponds. The tanks are fed from either reservoir water or directly from well water which first passes through a degassing head tank. As water flows continuously through the tanks from an overhead distribution system, it is collected in a series of trench drains in the hatchery floor and eventually makes its way back to the Ohio River.

The hatchery also includes an office, a bunk room and kitchen for seasonal employees, a brine/shrimp room, and storage and maintenance garages. A mezzanine above the office area provides for additional storage.







Firm Profile

MILLER ENGINEERING is a solely held (S) corporation owned by
Craig Miller PE, President. The corporation maintains a
Certificate of Authority with the WV State PE Board and has
carried professional liability insurance since its inception.
Neither the firm nor its professional engineers have ever faced
disciplinary action in any form from the states in which they are
registered.

Our engineered solutions involve a detailed assessment process: investigation, observation, communication with stakeholders, system analysis, building modeling and engagement from our entire team. We approach each and every project with this process and the guiding principle that buildings are designed to be livable and function in their intended purpose.



Over the past 14 years Miller Engineering, Inc. (MEI) has engineered solutions for over \$23.2M in MEP system upgrades, repairs and renovations for projects of all scopes and sizes, with clients ranging from private owners to local and state governments. With a strict attention to detail and commitment to delivering a job done well and done right the first time, every time, MEI has accumulated a change order percentage of less than 0.1% over the past 8 years.



Our team has unique skill-sets regarding engineered renovation solutions. Each member of the team has hands-on mechanical system experience including installation, construction, design and maintenance.

Miller Engineering takes pride in being different by design, and that difference shines through in all phases of our work and continued relationships with our clients.



- Quality, Value-Engineered Project Delivery
- Qualified Construction Representative on Staff
 - LEED-AP Certified
 - Below Industry Change Order Status
 - Building Information Modeling
 - Emergency Facility Response

Engineering Design and Consultation

- Mechanical
- Electrical
- Plumbing
- HVAC Design
- Renovation
- New Construction
- Building Information Modeling

Aquatic Facility Design

Public Pools & Areas ADA Compliance Indoor & Outdoor (air flow) Chlorination/Filtration

Construction Administration

Maintenance/Facility Improvement Plans Contract Administration Code Observation

Communication System

Intercomm & Public Address Voice/Data/CATV Urgent Response

Energy

Power Supply (main & backup) Green & Renewable Consulting Systems Utilization & Upgrades Sustainable Solutions

Facility Utilization

Systems Assessment & Solutions Adpative Re-use Planning/Life-Cycle Control Engineered Replacement

Life Safety Inspection/Design

Fire Protection & Alarm Systems
Access Control
Fire & Electrical Investigation

Industry Experience

Education Local & State Government Commercial Development Healthcare







B. Craig Miller, PE

Craig founded Miller Engineering in 2003, and serves as President and Principal Engineer. He has more than 20 years experience in design, specification, operations and project management. During his employment with WVU, Craig was directly involved with approximately \$130 million in new capital construction and an equal value in infrastructure renovations. His experience with a wide range of projects including HVAC, electrical, plumbing, steam and chilled water central plants, infrastructure upgrades, building automation, energy efficiency and maintenance/renovation, among others,

allows him to serve in multiple capacities within a given project. Craig will serve as the main communication interface between the Owner, the design team, contractors, and end users.

Project Role: Relationship Manager - Primary Point of Contact

- Engineer in Responsible Charge
- Design and Project Management of Mechanical, Electrical, Plumbing Projects
- Concept and Construction Design
- Business Operations and Financial Management Oversight
- Quality Assurance and Control

Professional Project Highlights

- Morgantown High School Boiler Replacement/ HVAC Upgrades
- Graftek Steam System Improvements
- WVU Life Sciences Building and Student Recreation Center Owner's Engineer
- Hawks Nest/Twin Falls HVAC
- Mapletown High School HVAC Replacement Phase ! & !!
- Advanced Surgical Hospital
- WV State Building 25 HVAC Piping Replacement
- Cheat Lake Elementary & Middle School Renovations

Professional History

2003 - Present	Miller Engineering, Inc.	President, Relationship Manager
2002-2003	Casto Technical Services	Existing Building Services Design Engineer
2001-2002	Uniontown Hospital	Supervisor 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

Licenses and Certifications

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





Travis Taylor, PE

Experience in project management facilitates Travis's ability to create and design constructible 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. These include local ASHRAE classes in addition to classes on electrical systems, and also steam systems through Shippenburg Pump Company. As lead engineer he provides HVAC, mechanical,

plumbing, and electrical design solutions and services for our clients. In addition, he is part of our team's complete assessment process in both planning and MEP design through construction administration.

Project Role: Lead MEP Engineer

- Design of Mechanical, Electrical, and Plumbing Systems
- Building Information Modeling Revit
- Constructible Materials Evaluation
- Site Evaluation and Mechanical System Review
- Submittal and RFP Review
- RFI Coordination, Review, and Response
- Construction Observation

Professional Project Highlights

- Blackwater Falls Lodge Boiler Replacement
- MTEC Welding Shop
- North Elementary Boiler Replacement
- WV State Building 36 HVAC Upgrades
- WV State Building 25 HVAC Piping Replacement
- Graftek Steam Systems Evaluations and Modifications
- Bobtown Elementary School HVAC Upgrades
- Holly River State Park Primary Electric Service Replacements Phase I & II
- Pipestem Lodge McKeever Lodge HVAC Piping Replacement

<u>Professional History</u>

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

2006-2006 Schlumberger Field Engineer Trainee - MWD

Education

2006 West Virginia University, BS - Mechanical Engineering

Licenses and Certifications

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





Joseph Machnik

Joe has experience with AutoCAD, MEP and Revit MEP. He provides design modeling, drafting and supervised design services and construction support for Miller Engineering.

Project Role: MEP Designer

- Revit/CADD Coordination of New Construction and Renovation Designs
- Building Information Modeling Specialist

Professional Project Highlights

- Bobtown Elementary HVAC
- WV State Building 25 HVAC Piping Replacement
- Blackwater Falls Boiler Replacement
- Suncrest Middle Gym HVAC
- North Elementary Gym HVAC
- Graftek Steam Systems Evaluations and Modifications
- WV State Building 36 HVAC Upgrades
- Pipestern Lodge HVAC Piping Replacement
- Westwood Middle Cooling Tower

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

Additional Trainina

2016 - Shippenburg Pump Company - Steam Systems Training



Staff - Qualifications and Experience



Jack Jamison

Jack brings 20 years as an electrical/building inspector and over 25 years of experience in the commercial electrical construction industry. His knowledge and experience are valuable resources to Miller's complete assessment process.

Project Role: Master Code Official

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

Professional History

2010- Present Miller Engineering, Inc. Code and Construction Specialist

1999-2010 Megco Inspections Chief Inspector
1972-1998 Jamison Electrical Construction Master Electrician

Education

1971 Fairmont State College, BS-Engineering Technology-Electronics

Licenses and Certifications

- 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



Pipestem State Park - Sprayground and Existing Pool Demo

Pipestem State Park

Pipestem, WV

Services Provided:

- Aquatic Design
- Plumbing
- Electrical
- Mechanical
- Demolition MEP

Cost: \$2.49M

Owner: West Virginia Division of Natural

Resources

Status: Under Construction



The pool at Pipestem had ongoing concerns for a number of years. Age, condition, piping, and the original design had led to continuous operational problems. The pool was originally constructed as part of a larger, integral, recreation facility that presented problems for both maintenance and repairs. The use of the deck as a roof for spaces below resulted in ongoing issues for both. As part of a larger team effort, MEI evaluated the facility and recommended partial demolition

park guests. The water treatment utilizes the latest in disinfection technology to protect users.

and replacing the pool. Based on the local population, the capacity of the park facilities, and the budget; the recommendation was to replace the pool with an interactive sprayground. This facility is more strategically located close to the lodge and includes a pedestrian bridge and restroom/ bathouse for

Project Contact: Bradley S. Leslie, PE, Chief Engineer State Parks Section (304) 558-2764 ext. 51826



Descriptions of Past Projects Completed – HVAC Piping

Pipestem McKeever Lodge

Pipestem, WV

Services Provided:

- HVAC
- Plumbing
- Electrical
- Accommodation of Existing Systems

Estimated Budget: \$1.7M Facility Area: 63,000 ft²

Owner: West Virginia Division of

Natural Resources





Project Contact: Carolyn Mansberger, Project Manager State Parks Section (304) 558-2764

The original HVAC piping at McKeever Lodge had exceeded its lifespan and had been suffering from corrosion leading to multiple leaks, including one causing an electrical service outage. Miller Engineering was hired to investigate the existing piping, discovering all of the piping required replacement. As this lodge is regularly occupied for larger conferences, the project had to be phased to minimize the amount of guest rooms taken out of service at one time. MEI also designed provisions to interconnect the lodge's two separate boiler/chiller plants so one plant could operate the entire lodge at a partial capacity while the other plant was replaced and re-piped. This interconnect also allows the lodge to operate in the event of a boiler or chiller outage. Power was provided to new equipment, and motor control centers were added to control the building loop pumps. A new building controls system was installed to allow the plants to run at optimum efficiency while meeting the lodges heating and cooling needs.



Descriptions of Past Projects Completed - Misc. Upgrades

Blackwater Fails State Park Lodge Upgrades

Davis, WV

Services Provided:

- General Trades
- Plumbing
- Electrical
- Mechanical
- Pool

Estimated Budget: \$1.1 Mil Facility Area: 46,000 ft²

Owner: West Virginia Division of

Natural Resources



Project Contact: Bradley S. Leslie, PE, Assistant Chief State Parks Section Phone: (304) 558-2764 ext. 51826

MEI has performed several projects at the Blackwater Falls State Park Lodge that cover many trades. Miller Engineering designed new HVAC systems for the dining room and make up unit for the Kitchen. The units were installed in a manner to not interfere with views of the park. The second floor plumbing piping was upgraded and routed out of the attic for freeze protection. The bathrooms were re-connected with new GFCI receptacles to eliminate nuisance tripping. New panel boards, hallway lighting, and hallway ceilings were installed as well. A MEI project which was just completed is the replacement and re-piping of the hot tub. The existing spa was leaking and had maintenance issues. A new hot tub was installed along with tiling. A new chemical and pump room was installed as well. Miller Engineering was recently contracted to design the replacement of the existing boiler system and convert them from steam to hot water. The project is currently in design and will include the construction of a boiler room.



Descriptions of Past Projects Completed - Development/Design

Beech Fork State Park Lodge

Services Provided:

- Mechanical
- Electrical
- Plumbing
- Cost Estimation
- Phased Plan for Pools

Estimated Budget: \$20M Facility Area: 74,000 ft²

Owner: West Virginia Division of

Natural Resources



Natural Resources has engaged our team's services for design and development of a new, multi-million dollar lodge in the southern region of the state. Miller Engineering is providing all of the

Currently, the West Virginia Department of

mechanical, electrical, plumbing and pool design for the Beech Fork State Park. This project includes coordination with ZMM Architects, EL Robinson, the West Virginia Department of Environmental Protection, the West Virginia Division of Highways and the US Army Corps of Engineers.

Development and design for guest, conference and public recreational areas, as well as commercial kitchen space, fire safety and public safety lighting are key elements of the project.

Project Contact: Bradley S. Leslie, PE, Assistant Chief State Parks Section Phone: (304) 558-2764





David L. Morris

PO Box 777 Alum Creek, West Virginia 25003 (304) 741-1623 mobile (304) 756-1209 office / home Email: dlm@dlmdecisions.com

CAREER HISTORY:

2012 - Present	DLM Decisions LLC	Managing Member
2009 - 2010	Pray Construction Company	Project Manager / Estimator
2007 — 2014	Q2 Builders LLC	Member (Advisor)
1997 2016	Quantum Construction Services, Inc.	President / Vice President
1994 - 1997	Wiseman Construction Company	Vice President
1988 - 1994	Pray Construction Company	Chief Estimator / Project Manager / Estimator
1984 - 1988	State Farm and Prudential Insurance	Estimator in Property & Casualty Divisions

EDUCATION AND TRAINING

- BS in Architectural Engineering Fairmont State University Fairmont, WV
- Contractor Quality Management Training US Army Corp of Engineers Chicago, IL
- Total Quality Management Facilitator Training RCAC Charleston, WV
- Log Restoration Training Perma-Chink Systems, Inc Knoxville, TN
- Soil and Foundation Classes WV State University Institute, WV
- Vale National Training Center Professional Estimating Training Chambersburg, PA
- International Estimators Academy Creating National Estimating Models Gettysburg, PA
- Executive Management School State Farm Insurance Frederick, MD
- Kanawha Valley Real Estate School Realtor License Training Charleston WV
- Timberline (now Sage) Estimating School Estimating / Financial Model Training Raleigh, NC
- Leadership Charleston Graduate Charleston, WV

LICENSES:

- WV General Contractors License WV027639 (currently unassigned)
- WV Master Plumber PL10981
- WV Real Estate Sales License (inactive)

SKILLS AND ABILITIES

Expert status

- o Estimating
- Architectural Document Interpretation
- o Construction Project Management

Advanced status

- Historic Preservation Techniques
- Timber / Log Construction and Preservation
- o Project Scheduler
- o Construction Law
- Construction Finances / Accounting



SKILLS AND ABILITIES CONT'D

- Proficient with
 - Microsoft Excel
 - o Microsoft Word
 - Microsoft PowerPoint
 - Microsoft Project
 - Adobe Acrobat
 - Various additional computer software
 - o Most construction equipment

CAREER PROJECT LIST - PARTIAL:

Major Projects - Consulting - Current:

- Boone Memorial Hospital, New Hospital Building Clerk of the Works/ Owner Rep Madison, WV
- Boone Memorial Hospital, Clinic Renovation Owner Rep / Project Manager Madison, WV
- Pipestem State Park, Lodge / Tram Repairs Cost Analyst Pipestem, WV
- Hawks Nest State Park, Lodge Repairs Cost Analyst Ansted, WV
- Twin Falls Resort State Park, Kitchen Repairs Cost Analyst Mullens, WV

Major Projects - Consulting - Completed:

- Holly Grove Mansion Probes / Estimating / Project Analysis Charleston, WV
- Pipestem State Park, Lodge Plaza Repairs / Fire Alarm Cost Analyst Pipestem, WV
- Pipestem Resort State Park, Pool Cost Analysis Pipestem, WV
- Pipestem Resort State Park, Pedestrian Bridge Cost Analysis Pipestem, WV
- Hawks Nest State Park, Exterior and Roof Repairs Cost Analysis Ansted, WV
- Hawks Nest State Park, Stair Tower Cost Analysis Ansted, WV
- Hawks Nest State Park, Window Replacement Cost Analysis Ansted, WV
- Twin Falls Resort State Park, Exterior and Roof Repairs Cost Analysis Mullens, WV
- Twin Falls Resort State Park, Pool Cost Analysis Mullens, WV
- Twin Falls Resort State Park, Beam Repair Budget / Construction Administration Mullens, WV
- West Virginia Main Capitol Building, Exterior Dome / Exterior Stone Probes Charleston, WV
- Star USA Credit Union, Branch Office Construction Manager Summersville, WV
- WVU Robert C. Byrd Health Masonry Investigation / Cost Analysis Charleston, WV

Major Historical Projects Constructed (All are on the National Register of Historic Places):

- West Virginia Main Capitol Building, Interior Dome Renovation Charleston, WV
- West Virginia Main Capitol Building, South Plaza Renovation Charleston, WV
- West Virginia Main Capitol Building, West Wing Senate Offices Renovation Charleston, WV
- Marshall University, Old Main Building Masonry Restoration Huntington, WV
- Littlepage Mansion for Kanawha Charleston Housing Exterior Renovation Charleston, WV

Major Projects Constructed:

- Star USA Credit Union Branch Office New Buildings Beckley, WV and St. Albans, WV
- West Virginia State University, Erickson Alumni Center New Building Institute, WV
- West Virginia Radio Corporation, Complete Exterior/Partial Interior Renovation Charleston, WV

Major Projects Estimated (and received):

NIOSH Building Addition – Morgantown, WV

(approx. \$31,000,000.00)

William R. Sharpe Hospital – Weston, WV

(approx. \$28,000,000.00)

Northern Regional Jail – Moundsville, WV

(approx. \$11,000,000.00)



February 21, 2019

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



Re:

Expression of Interest for Architectural/Engineering Services for Structural Repairs at

Various State Parks DNR1900000006

To the Selection Committee:

With over 30 years of experience, *CAS Structural Engineering* provides professional structural engineering services for a variety of building projects, ranging from new construction to additions and renovations, to repairs and historic preservation. *Carol A. Stevens, PE*, is the firm president and will be the engineer of responsible charge for this project. Ms. Stevens has over 30 years of experience with building structures in West Virginia, Pennsylvania and Ohio. CAS Structural Engineering is a small,



local, West Virginia Certified Disadvantaged Business Enterprise that will give you personal attention.

CAS Structural Engineering has been involved with numerous building structure repairs,



including recently completed projects at McKeever Lodge at
Pipestem State Park and Twin Falls State Park and repairs to the
Governor's Mansion, Main Capitol Building, Hawks Nest State
Park Lodge, State of West Virginia Building 3 Canopy, Farrell
Law Offices in Huntington, First Presbyterian Church in
Charleston, among others. Our team has also prepared the
Construction Documents for repair projects at Hawks Nest and
Twin Falls State Parks and is currently reviewing construction

of the new bathhouse and sprayground at Pipestem Resort State Park, also designed by our team. Additionally, we have an accounting system that allows us to track hours and expenses on every project.

Located in Alum Creek, *CAS Structural Engineering* will serve as the prime consultant on this important project. The sub-consultants that we have teamed with are as follows: *Chapman Technical Group, Ltd.* (St. Albans, WV) for architectural and landscape architecture issues, *Miller Engineering Inc.* (Morgantown, WV) for mechanical and electrical engineering issues, and *David L. Morris, DLM Decisions, LLC* (Alum Creek, WV), for consulting on construction related issues and estimating. This team has an extensive working relationship, having worked on a number of projects together over the last 20 years. The following information should serve to introduce and



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qualify the various members of the team that we propose to complete the tasks outlined in the scope of the request for proposal.

Chapman Technical Group provides the professional design services for a diverse range of projects including architecture, interior design and space planning, landscape architecture and civil engineering. Chapman Technical Group has been providing these services for more than 30 years and has designed many projects for West Virginia State Parks. **Tom Cloer III, AIA** will be the architect of record for this project. Tom has extensive experience in renovation projects including work that was recently completed at Twin Falls State Park Pipestem State Park. Tom was also the architect of record for the preparation of the construction documents for the repairs at Hawks Nest and Twin Falls State Parks as well as the current project for the bathhouse and sprayground at Pipestem.

Miller Engineering Inc will join the team to assist with any of the existing mechanical, electrical, and plumbing systems that may be affected by the repair of the structures. Craig Miller, as President of his firm, has more than 20 years' experience in the design, specification, and construction/project management of mechanical, electrical, and plumbing systems and 15 years experience in facilities operations, maintenance, and management. He specializes in retrofits and upgrades to existing systems and what he terms "operational engineering" or implementing changes to, while maintaining the operational requirements of, a facility or system. He has worked extensively in the educational/institutional environment including spending several years as a systems mechanic performing various trades work prior to obtaining his engineering education. His trades work gives him a distinctive "hands on" approach to engineering application and design. Craig was the mechanical/electrical engineer of record for the work recently completed at both Twin Falls and Pipestem State Park Lodges and the current project for the bathhouse and sprayground at Pipestem.

David Morris of DLM Decisions will assist the team with his years of expertise in the construction industry. Much of Mr. Morris's experience is directly related to the work associated with this project. He has worked with the CAS Team on several repair and restoration type projects, providing construction cost estimates. This skill, in addition to his general construction knowledge in addition, will be an added benefit to the team.

As you review the following information, it will become evident that as a team we bring extensive building restoration and renovation experience to your project. *CAS Structural Engineering* invites an opportunity to present our design team for your evaluation and we are available to work on your project immediately. If you have any questions or require any additional information, please contact us. Thank you for considering our team for your project.

Sincerely,

CAS Structural Engineering, Inc.

Carol A. Stevens, P.E.

President