Expression of Interest for A/E Services for Structural Repairs at Various State Parks DNR1800000009

CAS STRUCTURAL ENGINEERING, INC.

MILLER ENGINEERING, INC.

DLMDECISIONS LLC

Chapman Technical Group
a division of GRW

PO Box 469
Alum Creek, WV 25003-0469

August 1, 2018

West Virginia division of Natural Resources
Property and Procurement Office
BID RESPONSE
324 4th Avenue
South Charleston, WV 25303

Re: Expression of Interest for Architectural/Engineering Services for Structural Repairs at Various State Parks
DNR1800000009

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.** 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 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.

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.

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

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DLMDECISIONS LLC

1 Qualifications and Experience

2 Project Approach

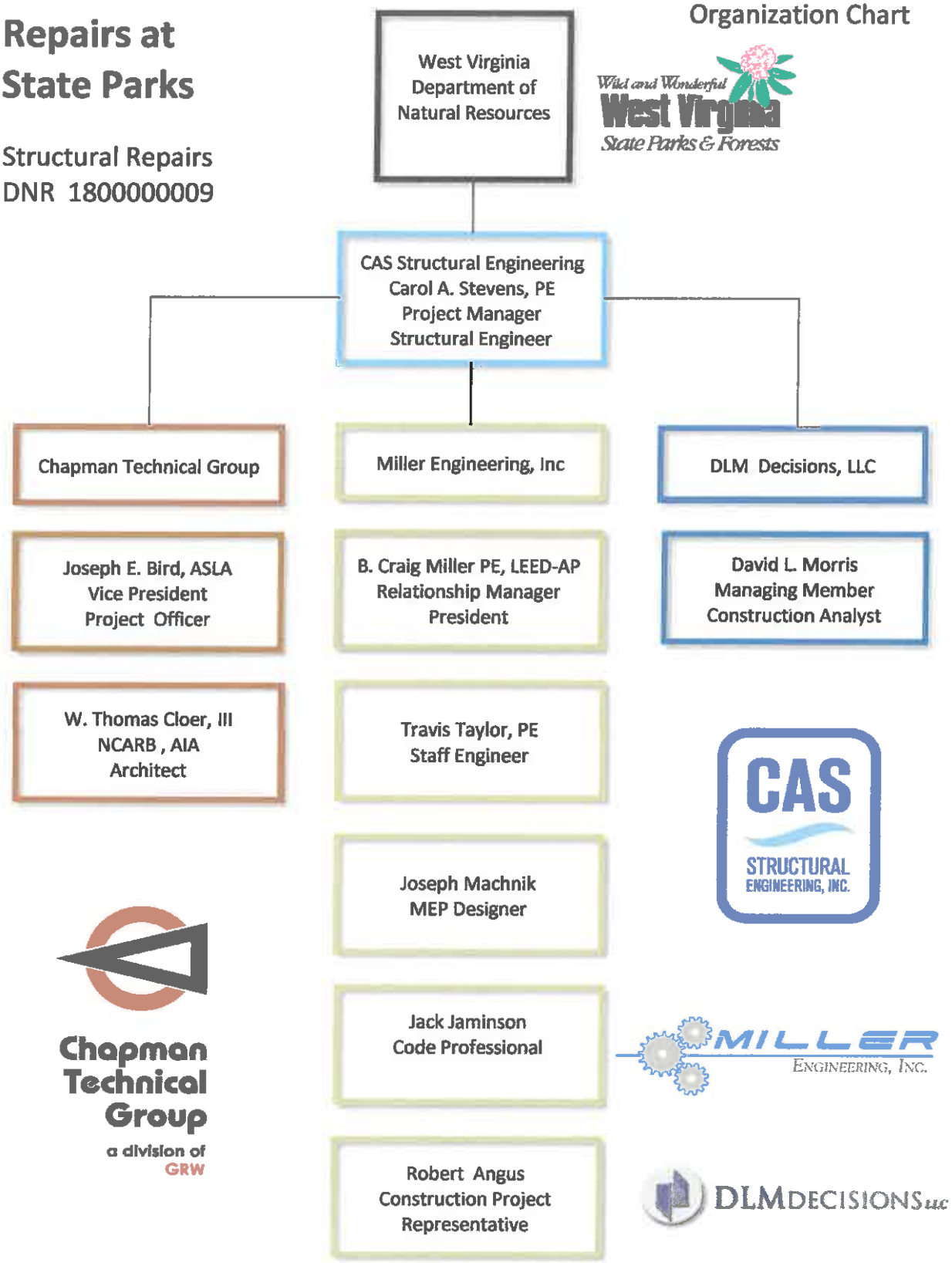
3 References

4 Required Forms

Structural Repairs at State Parks

Structural Repairs
DNR 1800000009

CAS Project Team
Organization Chart




CAS
STRUCTURAL
ENGINEERING, INC.

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.

Carol A. Stevens, PE, F.ASCE

Structural Engineer

CAS STRUCTURAL ENGINEERING, INC.

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

EXPERIENCE

West Virginia, State Capitol Complex, Holly Grove Mansion: Structural evaluation report for preliminary condition assessment of building structure. Building is on the National Register of Historic Places and was constructed in 1815.

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 the National Register of Historic Places and was constructed in the 1920's and 1930's.

West Virginia, Job's Temple: Structural repairs to 1860's log structure. Building is on the National Register of Historic Places.

West Virginia, Collett House Structural Repairs: Structural renovations of 1770's log and framed structure to stabilize foundation and make repairs to log wall and floor. Building is on the National Register of Historic Places.

West Virginia, First Presbyterian Church Restoration: Structural renovations of steel in lantern level and terra cotta cornice, overview of repairs to limestone and terra cotta façade of 1920's structure.

West Virginia, Hawks Nest State Park Lodge: Repairs to spandrel beams at roof level and analysis and repairs of structural cracks in stairtower.

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 the National Register of Historic Places and was constructed in the 1920's.

West Virginia, Twin Falls Resort State Park Addition: Structural design for new addition to existing facility.

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 the National Register of Historic Places and was constructed in the 1930's. Received a NYAIA Merit Award for Design Excellence.

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, 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 the National Register of Historic Places 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 National Register of Historic Places 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.

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 the National Register of Historic Places and was constructed in the 1930's.

West Virginia, Beech Fork State Park Pool, Bathhouse and Cabins: Designed structure for new bathhouse, swimming pool 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, Farrell Law Building: Performed analysis of existing deteriorated structural sidewalk over parking area. Recommended repair solutions for reinforced concrete and aged terra cotta façade of 1920's building.

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

West Virginia, West Virginia University Masterplan: Investigated structural floor load capacity of several university buildings as a consultant to a large national architectural firm for masterplan.

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, 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, Metropolitan Edison Company, Headquarters: Structural design for new 80,000 SF two-story office addition to existing complex.

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

CAS
STRUCTURAL ENGINEERING, INC.

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

CAS STRUCTURAL ENGINEERING, INC.

STRUCTURAL INVESTIGATION
TWIN FALLS STATE PARK RECREATION BUILDING & LODGE
Mullens, West Virginia

Project includes investigation into causes of structural cracking in existing lodge and recreation buildings and preparation of a construction cost estimate for repairs.

Steel pipe columns have been installed in many locations due to the excessive amount of deterioration that is present at

The structural steel beam within the concrete beam has rusted due to water infiltration through the wall system. Additionally, the steel beam was not designed for current code-related deflection requirements.

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.

CAS STRUCTURAL ENGINEERING, INC.

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.

AIA West Virginia Honor Award 2008

CAS STRUCTURAL ENGINEERING, INC.

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

The terra cotta balustrade was re-built after the iron components were found to be deteriorated.

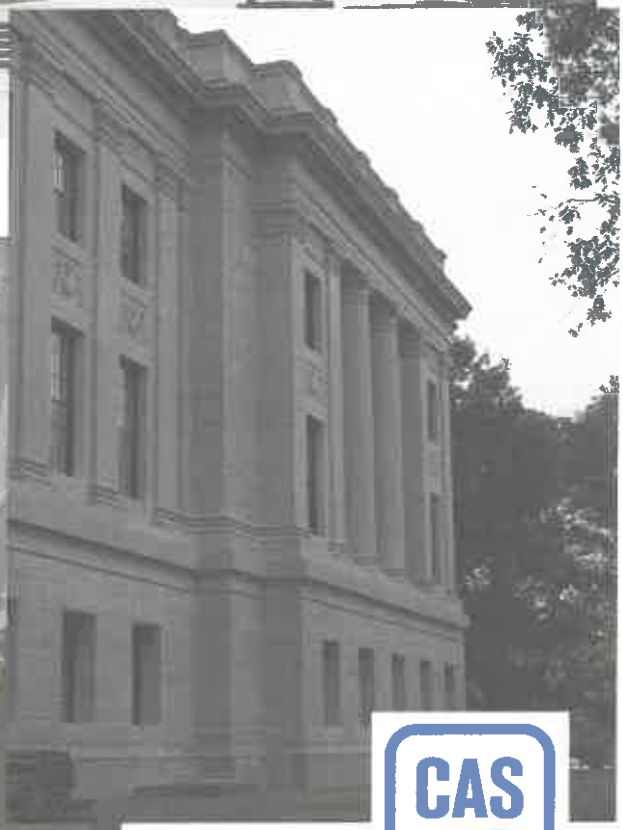
The corners of the terra cotta cornice exhibited significant deterioration of the mortar joints and rotation of the units. It was found that the supporting steel members were not adequate for the load that was being supported. They were also replaced with stainless steel components.

CAS STRUCTURAL ENGINEERING, INC.

EXTERIOR FAÇADE RESTORATION
MAIN CAPITOL BUILDING

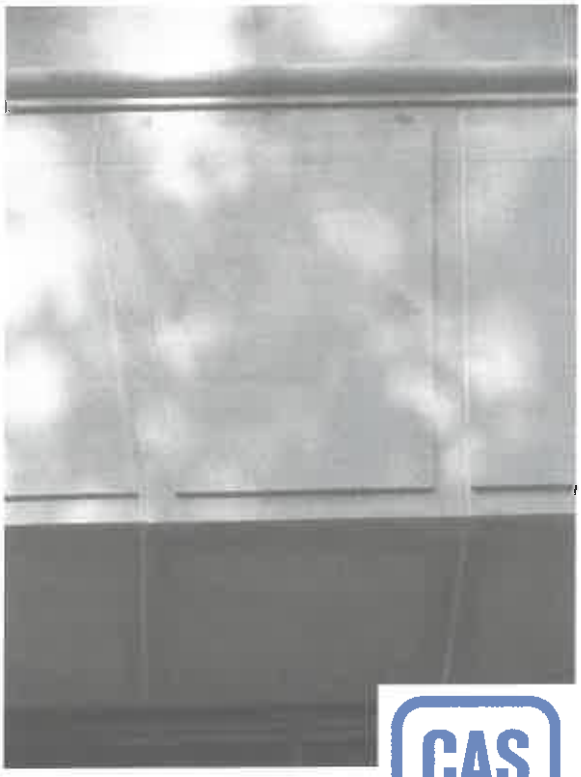
Charleston, West Virginia

Exterior façade restoration included cleaning, pointing, and repairs to the limestone and terra cotta components, windows and doors.



CAS STRUCTURAL ENGINEERING, INC.

Portions of the limestone cornice were damaged to the point that they fell when work was being conducted and had to be pinned back in place.



Other repairs included various spall repairs, pinning and epoxy injection of larger cracks and lifting and pinning keystones over windows.

CAS
STRUCTURAL
ENGINEERING, INC.

Chapman
Technical
Group

a division of
GRW

COMPANY OVERVIEW & AWARDS

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.

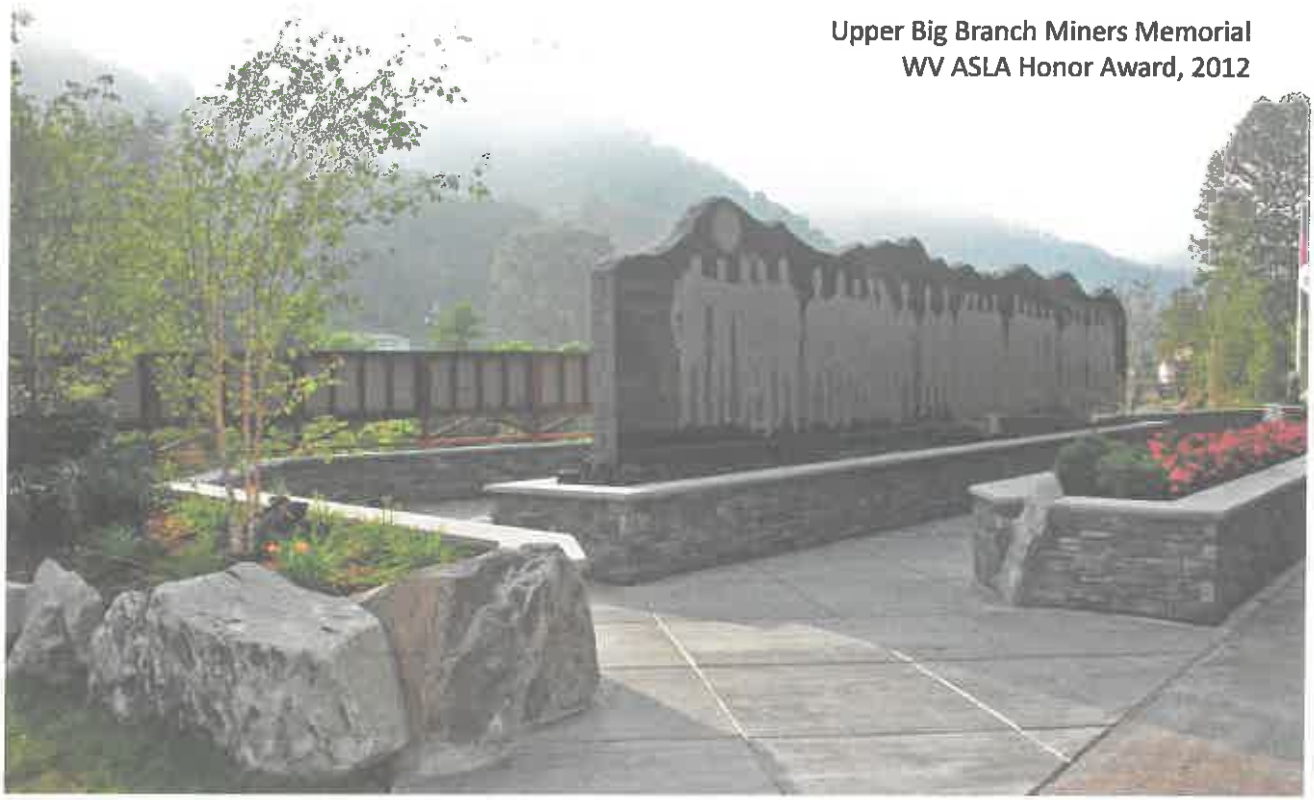
Water and sewer system design is accomplished by our environmental engineers, and when on-site wastewater treatment is required, we can do it.

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

COMPANY OVERVIEW & AWARDS

COMPANY OVERVIEW & AWARDS

COMPANY OVERVIEW & AWARDS



Upper Big Branch Miners Memorial
WV ASLA Honor Award, 2012

Nuttallburg Historic Mining Complex
WV ASLA Merit Award, 2012

Joseph E. Bird, ASLA

Vice President
Project Manager

Years of Experience: 40
Years with Chapman: 33

Education
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

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.

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

Years of Experience: 16
Years with Chapman: 11

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

Registration
Architect: 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

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 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.

Sharon L. Chapman
Interior Design

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

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.

Phillip A. Warnock, NCARB, AIA
Project Architect

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 AIA
Upshur County Courthouse

Merit Award, WV AIA
I-79 Burnsville Rest Area

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

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.

ARCHITECTURE

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.

ARCHITECTURE

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.

ARCHITECTURE

WV Division of Natural Resources

Canaan Valley Resort State Park - Tube Park Lodge

Canaan Valley, West Virginia

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 12-lane 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 snow-making capabilities.

ARCHITECTURE

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.


MILLER
ENGINEERING, INC.

MILLER
ENGINEERING, INC.

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.*

- Experienced and Licensed Professional Engineers
- 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

304-291-2234 (ext. 107) | 240 Scott Avenue Suite 1 | Morgantown, WV 26508 | www.MillerEng.net
West Virginia | Pennsylvania | Maryland | Ohio

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 I & II
- 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

Professional History

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

Robert Angus

20 Years of maintenance, operations, and construction management precede Rob's engagement with Miller Engineering. Professional expertise of construction project management was gained as an owner of his own contracting company specializing in residential and commercial construction, electrical, plumbing, and HVAC projects. Rob's hands-on approach, common sense and valuable work history knowledge enables him to interface with construction personnel seamlessly alongside engineers and architects. He is adept at preventing and handling issues. Rob is involved at both the design and estimation phase to allow for continuity within the project's design and construction; at times working as a project designer.

Project Role: Construction Representative

- *Construction Project Representation and Management*
- *Construction Administration*
- *Project Cost Estimation*
- *Submittal Review*
- *RFI, RFPCO Review and Response*

Professional Project Highlights

- MTEC Welding Shop
- Blackwater Falls Boiler Replacement
- Morgantown High School Boiler Replacement/HVAC Upgrade
- North Elementary School Boiler/AC
- Mapletown Jr./Sr. High School HVAC/Boiler Upgrade
- 3RD Party Construction Observation – Canaan Valley Resort
- Hawks Nest/Twin Falls HVAC
- WVU Research Building Office Renovation

Professional History

2009- Present	Miller Engineering, Inc.	Project Construction Representative
2000-2009	Angus Contracting, LLC	Owner/Operator
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

Licenses and Certifications

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

MILLER ENGINEERING, INC.

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

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
- Pipestem 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 Training

2016 – Shippenburg Pump Company – Steam Systems Training

MILLER ENGINEERING, INC.

Descriptions of Past Projects Completed – Misc. Upgrades

Blackwater Falls State Park Lodge Upgrades

Davis, WV

Services Provided:

- General Trades
- Plumbing
- Electrical
- Mechanical
- Pool

Estimated Budget: $1.1 Mil
Facility Area: 46,000 ft^2
Owner: West Virginia Division of Natural Resources

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.

Project Contact:
Bradley S. Leslie, PE, Assistant Chief
State Parks Section
Phone: (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 ft^2
Owner: West Virginia Division of Natural Resources

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.

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

MILLER ENGINEERING, INC.

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 ft^2
Owner: West Virginia Division of Natural Resources

Currently, the West Virginia Department of 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 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


DLMDECISIONS LLC

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**
  - Estimating
  - Architectural Document Interpretation
  - Construction Project Management
- **Advanced status**
  - Historic Preservation Techniques
  - Timber / Log Construction and Preservation
  - Project Scheduler
  - Construction Law
  - Construction Finances / Accounting

SKILLS AND ABILITIES CONT'D

- **Proficient with**
  - Microsoft Excel
  - Microsoft Word
  - Microsoft PowerPoint
  - Microsoft Project
  - Adobe Acrobat
  - Various additional computer software
  - 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)

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 siiues 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.

REFERENCES

1. 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.: AEOI DNR18*09

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

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

Addendum Numbers Received:
(Check the box next to each addendum received)

- [x] 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

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

CAS Structural Engineering, Inc.
Company

Carol A Stevens
Authorized Signature

8/1/18
Date

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

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

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

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

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

DEFINITIONS:

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

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

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

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

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: CAS Structural Engineering, Inc.

Authorized Signature: Carol A. Stevens Date: 8/1/18

State of WV

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 1 day of August, 2018.

My Commission expires May 18, 2022, 2022.

AFFIX SEAL HERE

NOTARY PUBLIC Casey Parsons