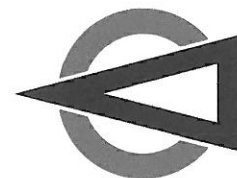


# Expression of Interest for Structural Repairs to McKeever Lodge DNR 214016



DLMDECISIONS<sup>LLC</sup>  
RECEIVED

**Chapman  
Technical  
Group**

PO Box 469  
Alum Creek, WV 25003-0469

2013 SEP 16 PM 2:27

WV PURCHASING  
DIVISION

September 16, 2013

Mr. Guy Nisbet, Senior Buyer  
Department of Administration  
Purchasing Division  
2019 Washington Street, East  
Charleston, West Virginia 25305-0130



Re: Expression of Interest for Architectural/Engineering Services for Design and Construction of Structural Repairs and Other Improvements at McKeever Lodge at Pipestem State Park  
DNR214016

To the Selection Committee:

With over 25 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 25 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 studies, including studies at McKeever Lodge at Pipestem State Park and renovations, including renovations and repairs to the Governor's Mansion, Main Capitol Building, Twin Falls State Park Lodge, Hawks Nest State Park Lodge, State of West Virginia Building 3 Canopy, Farrell Law Offices in Huntington, First Presbyterian Church in Charleston, among others. 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 issues, **Miller Engineering Inc.** (Morgantown, WV) for mechanical and electrical engineering issues, and **David L. Morris, DLM Decisions, LLC** (Walton, WV), for consulting on construction related issues



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WV VA KY OH MD PA

and estimating. This team has an extensive working relationship, having worked on a number of projects together over the last 15 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 28 years and has designed many projects for West Virginia State Parks.

**Dale E. Withrow, AIT, Manager-Architecture Group and Project Coordinator for Chapman Technical Group** will oversee the architectural design and coordinate the instruments of service of the various team members into the final construction documents, and will assist Ms. Stevens in leading the construction administration team as the renovation work begins on site. Mr. Withrow has over 39 years of experience in most phases of architectural and engineering design, as project manager for a general contractor and he has managed/coordinated all phases of building projects throughout the state for 15 of those years. These projects have included small additions to existing office buildings, schematic design and programming of a 174,00 square-foot state government office building, 55,000 square-foot chain grocery stores in 3 states, 38 new or renovated drug stores for a national chain, and a 74,000 square-foot academic, sports and recreation center for West Liberty State College. More specific to your project, he has been involved in the design solutions for numerous repair, renovation and remodeling projects such as additions and renovations to courthouses and courthouse annexes, and several airport terminals and terminal renovations from schematic design through project completion.

**Tom Cloer III, AIA** will be the architect of record for this project. Tom has extensive experience in renovation projects including work that is currently ongoing at Twin Falls State Park and the repairs to Stair Tower #4 at Hawks Nest State Park.

**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 18 years' experience in the design, specification, and construction/project management of mechanical, electrical, and plumbing systems and 13 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.

**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 CAS Structural Engineering and Chapman Technical Group 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.**

A handwritten signature in cursive script that reads "Carol A. Stevens". The signature is written in dark ink and is positioned above the printed name and title.

Carol A. Stevens, P.E.  
President



# Pipestem State Park

McKeever Lodge  
Structural Repairs  
DNR 214016

## 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

Miller Engineering, Inc

DLM Decisions, LLC

Sharon L. Chapman  
President  
Interior Designer

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

David L. Morris  
Managing Member  
Construction Analyst

Joseph E. Bird, ASLA  
Senior Vice President  
Project Manager

Travis Taylor PE  
Staff Engineer

Robert G. Belcher, PE  
Senior Vice President  
Engineering and  
Project Officer

Joseph Machnik  
MEP Designer

Dale E. Withrow, AIT  
Project Coordinator /  
Department Manager  
Architecture

Jack Jaminson  
Code Professional  
Electrical Designer

W. Thomas Cloer, III  
NCARB, AIA  
Architect

Robert Angus  
Construction Project  
Representative

Robert D. Dinsmore  
Project Designer





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 Documents:**

To begin the evaluation of the structure, we will review any existing documents that the Owner has available. Previous inspection reports, original construction documents, as-built drawings and any repair documents will be obtained. Many times, existing inspection reports and repair documentation provide a history of repetitive repair and problem areas.

### **Site Survey:**

We will perform a detailed site survey that will include a structural survey and observations of the existing conditions. Observation of any areas where there are structural concerns will be the focus of this project, and any impact on architectural, mechanical and electrical components will be noted. Documentation of all visible existing conditions will serve to provide information for development of repair drawings and specifications.

### **Construction Documents:**

We will utilize the information, photos, and measurements gathered in the review of the existing documents and the site survey to develop a list of priorities to discuss with the Owner prior to developing construction documents. This will communicate the remediation required to the contractors for bidding purposes, and will include drawings, specifications, and opinions of probable construction costs. It is assumed that architectural, mechanical and electrical components will be impacted in order to make repairs that are needed.

### **Bidding:**

We will assist the Owner with evaluating the bids received for the project in addition to answering any questions that pertain to the construction documents.

### **Construction Administration:**

We will participate in periodic progress meetings as needed at the site during the construction phase of the project to evaluate the progress and report to the Owner, review all shop drawing submittals of products and systems to be used in the remediation and repair, answer questions from the contractor, and be available to evaluate and adjust the work to overcome "found" conditions that are inevitable in repair and renovation work.

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WV VA KY OH MD PA



## **References**

1. Mr. William "Willie" Parker  
County Administrator  
Upshur County Commission  
38 Main Street, Room 302  
Buckhannon, WV 26201  
(304) 472-0535
  
2. Mr. Timothy Lee  
Director, Plant Operations and Security  
Thomas Memorial Hospital  
4605 MacCorkle Ave SW  
South Charleston, WV 25309  
(304) 766-3684
  
3. Mr. Robert Krause, AIA, PE  
Director, Architectural and Engineering Services  
Capitol Complex Building 1, Room MB-60  
1900 Kanawha Blvd E  
Charleston, WV 25305  
(304) 558-2317

**CERTIFICATION AND SIGNATURE PAGE**

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

CAS Structural Engineering, Inc.

(Company)

Carol A. Stevens

(Authorized Signature)

Carol A. Stevens, President

(Representative Name, Title)

(304) 756-2564 (304) 756-2565

(Phone Number)

(Fax Number)

9/16/13

(Date)

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: DNR214016**

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

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

**Addendum Numbers Received:**

(Check the box next to each addendum received)

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

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

CAS Structural Engineering, Inc.  
 Company  
Carol A. Stevens  
 Authorized Signature  
9/16/13  
 Date

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

RFQ No. DNR214016STATE OF WEST VIRGINIA  
Purchasing Division**PURCHASING AFFIDAVIT**

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

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

**DEFINITIONS:**

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

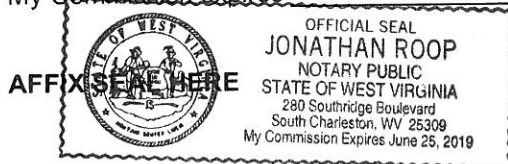
**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers'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

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

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: CAS Structural Engineering, Inc.  
Authorized Signature: Carol A. Stevens Date: 9/16/13

State of WVCounty of Kanawha, to-wit:Taken, subscribed, and sworn to before me this 16<sup>th</sup> day of September, 2013.My Commission expires 6-25, 2019.NOTARY PUBLIC [Signature]

Purchasing Affidavit (Revised 07/01/2012)



# 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 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, 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, Job's Temple:** Structural repairs to 1860's log structure. 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, 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, Twin Falls Resort State Park Addition:**

Structural design for new addition to existing facility.

#### **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.

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**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.



## **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 25 years on the following types of building and parking structures:

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

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

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

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

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

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## STRUCTURAL INVESTIGATION PIPESTEM STATE PARK RECREATION BUILDING

Pipestem, West Virginia



The pool deck is supported by this structure, thus the severe deterioration due to leaking joints in the deck. Once the decking is repaired, a new coating system must be installed to prevent chemically treated water from deteriorating the structural members.



A steel pipe column was added below the bearing end of this beam due to the severe deterioration at the end of the beam.



Project includes investigation into causes of structural cracking in existing recreation building and preparing a construction cost estimate for repairs.



## 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.





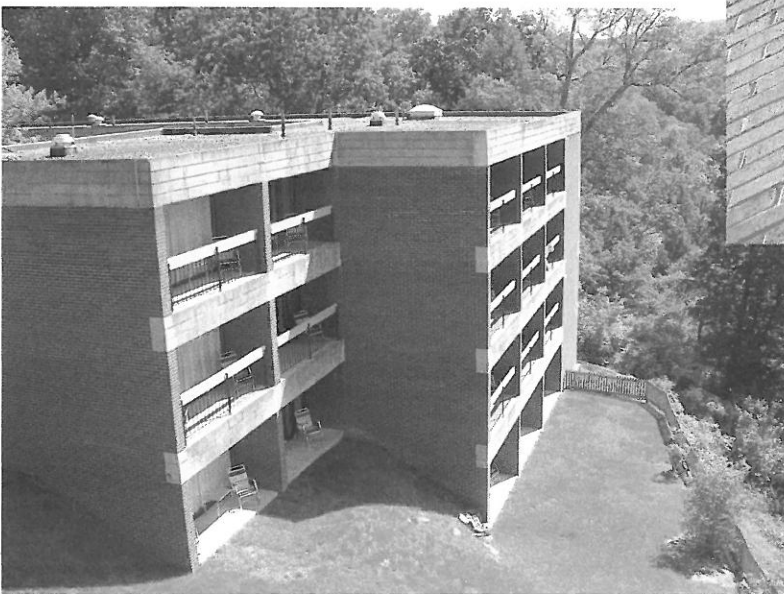
# STRUCTURAL INVESTIGATION HAWKS NEST STATE PARK LODGE

Ansted, West Virginia

Project includes investigation into causes of structural cracking in existing lodge facility and providing solution to the problem.



Currently completing a report for the Owner with photo documentation of conditions found and recommendations for repairs and associated construction cost estimates.



Part of the investigation included having a contractor perform probes to observe the condition of the structural elements and connections.



# 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.





## TWIN FALLS STATE PARK LODGE ADDITION

Mullens, West Virginia



Performed structural design for new 28,000 SF addition to existing lodge facility. Addition includes new lobby and conference areas, sleeping rooms, indoor pool facility and all support spaces.

Construction materials consisted of timber, concrete, masonry, precast plank and structural steel.



Project Owner: West Virginia Division of Natural Resources

Contact Person: Brad Leslie, PE

Contact Phone: (304) 558-2764

Professional Services End Date: December 2009

Construction Completion Date: Winter 2010

Construction Cost: \$7.3M



## 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.

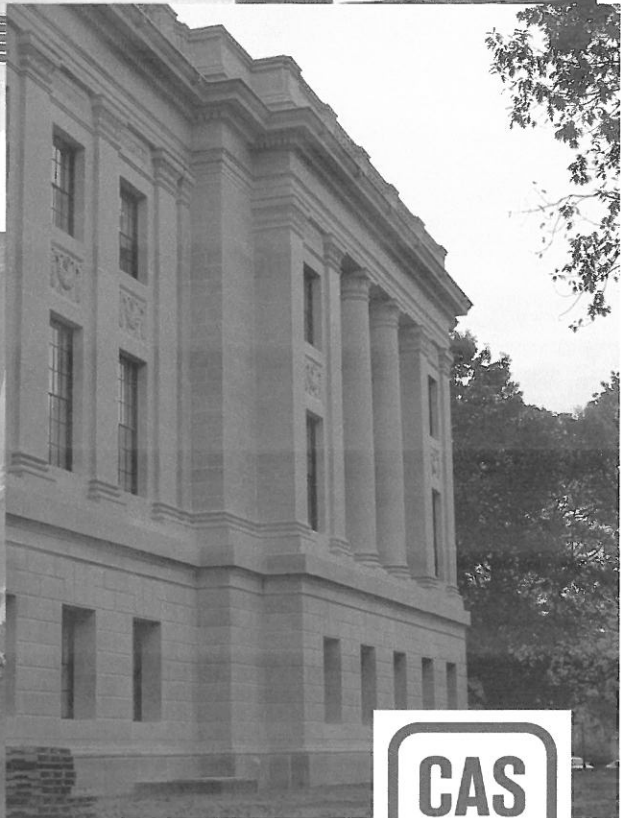


## EXTERIOR FAÇADE RESTORATION MAIN CAPITOL BUILDING

Charleston, West Virginia



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

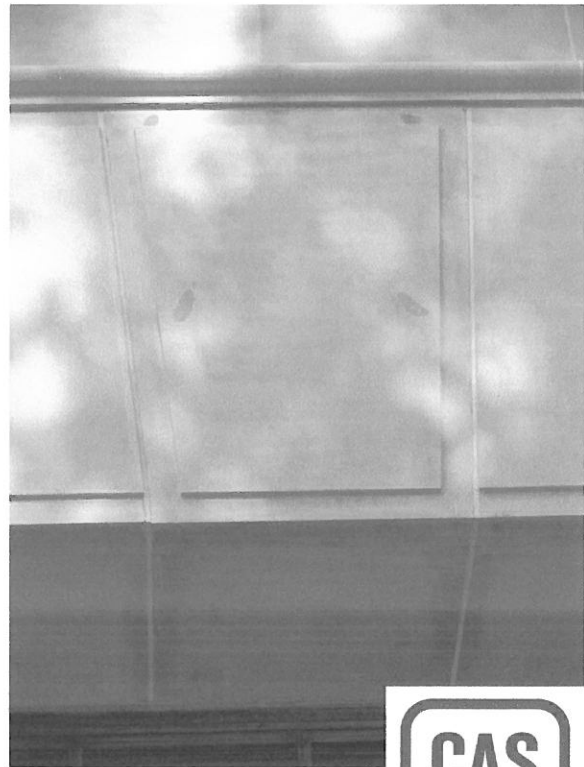




Portions of the limestone cornice were damaged to the point that they fell when work was being conducted and had to be pinned back in place.

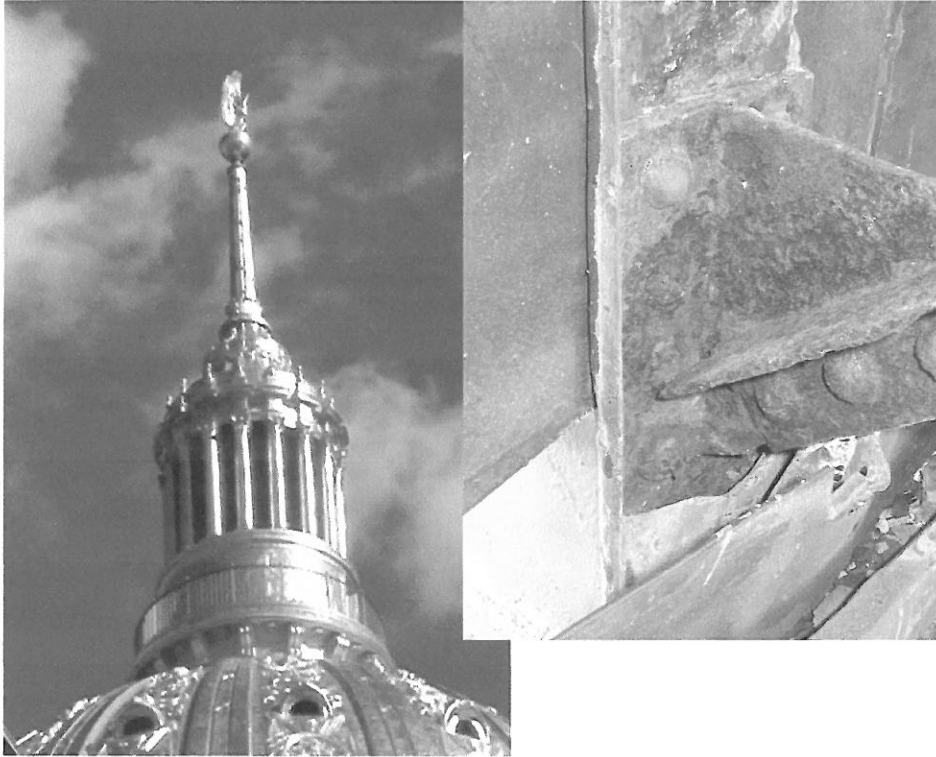


Other repairs included various spall repairs, pinning and epoxy injection of larger cracks and lifting and pinning keystones over windows.

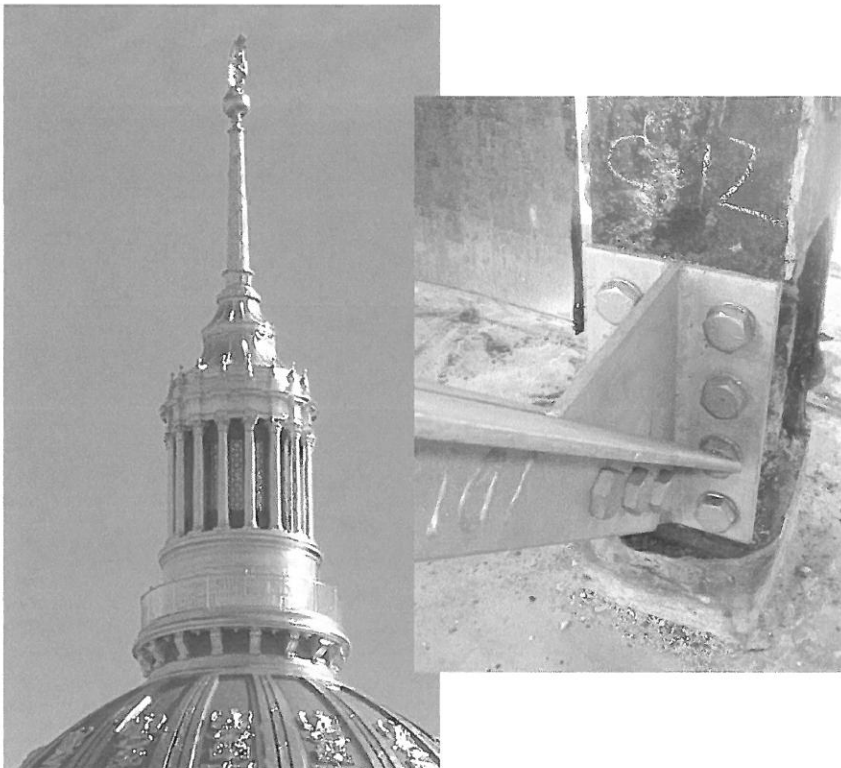


## STRUCTURAL INVESTIGATION MAIN CAPITOL BUILDING DOME

Charleston, West Virginia



The structural steel in the lantern level shows evidence of deterioration. Project included probing to determine extent of deterioration and preparation of plans and specifications for repairs.



The structural steel after being repaired and the regilding complete. Project included returning the dome to the original Cass Gilbert color scheme.

AIA New York State Merit Award 2006







Removal of one decorative column wrap indicated that back-up structure was severely deteriorated. Members were replaced with new galvanized components.

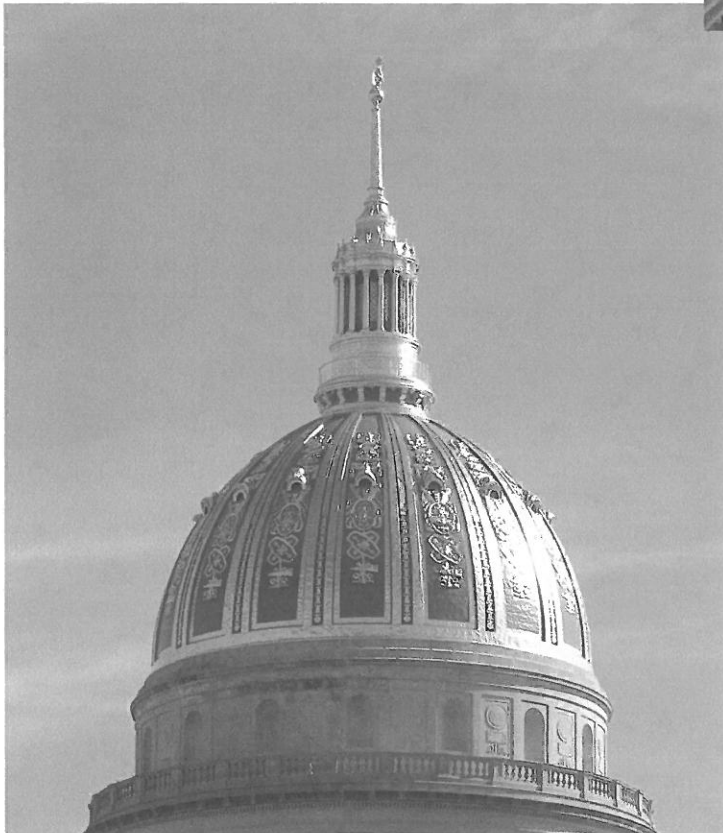


Deterioration of steel supporting sheet metal exhibited such deterioration that portions of the steel have disintegrated.





Concrete at the railing level was hidden from view and repaired once the sheet metals was removed and the deterioration was found.



Completed dome restoration shows the original sheet metal detail on the previous lead coated copper sheet metal. The lead coating was compromised over the years. As a result, a coating system had to be applied to protect the copper sheet metal.







**SHARON L. CHAPMAN**  
**President**  
**Interior Designer**

**EDUCATION**

University of Charleston, Carleton Varney Department of Art and Interior Design, BA, Interior Design, 1993

**REGISTRATION**

Allied Member, ASID

**PROFESSIONAL HISTORY**

**July 1996 to Present: Chapman Technical Group**  
President and Interior Designer.

**January 1991 to July 1996: Chapman Technical Group**  
Executive Vice President and Interior Designer.

22 years professional experience.

**PROJECT EXPERIENCE**

Space planning, interior design, material selections and furniture layouts for new and renovation projects including a courthouse annex, city hall renovations and other public buildings, private offices, commercial facilities, recreation facilities, industrial buildings, and residential properties. Also involved in building renovation feasibility studies and use analyses, and building facade renovation projects.

**AWARDS**

University of Charleston, Academic Achievement Award for Art and Design  
Finalist, Entrepreneur of the Year Award 1999  
Finalist, Entrepreneur of the Year Award 2000  
St. Albans Renaissance Group, Business Person of the Year 2002  
Junior Achievement Chairman's Award, 2002-2003  
St. Albans Renaissance Group, Appreciation Award 2005  
George Warren Fuller Award 2005  
Thomas Memorial Foundation Quiet Hero Award 2009  
University of Charleston, Alumni Achievement Award 2012

**AFFILIATIONS**

Allied Member, American Society of Interior Designers  
Rotary, St. Albans, West Virginia - Past President 2002-2003  
Member, West Virginia Chamber of Commerce  
Member, Charleston Area Alliance - Honorary Board Director  
Member, Putnam County Chamber of Commerce  
Member, St. Albans Chamber of Commerce  
Member, Contractor's Association of West Virginia  
Board of Directors, Thomas Memorial Hospital Foundation  
AWWA West Virginia Section  
Member, STARDA Board - St. Albans  
BB&T Advisory Board  
Board of Directors - Gabriel Project of West Virginia



**JOSEPH E. BIRD, ASLA**  
**Senior Vice President**  
**Project Manager**

**EDUCATION**

West Virginia University, BSLA, 1978

**REGISTRATION**

Landscape Architect, West Virginia, 1981

**PROFESSIONAL  
HISTORY**

**August 1985 to Present: Chapman Technical Group**  
Senior Vice President and Project Manager.

**May 1978 to August 1985: Kelley, Gidley, Blair & Wolfe, Inc.**  
Landscape Architect and Project Manager.

Mr. Bird is a project manager and registered landscape architect. His experience ranges from large site development projects to the management of multi-discipline and architectural projects.

35 years professional experience.

**PROJECT  
EXPERIENCE**

**Site Development:** Site planning and project management for numerous projects throughout West Virginia ranging from small campus sites to large sites for commercial, government, industrial, and institutional development. Projects include military complexes, campuses, public housing developments and other public facilities.

**Parks and Recreation:** Projects include swimming pools, bathhouses, cabins and support facilities for the West Virginia Division of Natural Resources and similar facilities for county and municipal park systems. Also involved in the design of facilities such as softball fields, fishing access facilities, recreation facilities for prisons, as well as passive recreation areas for public and private clients.

**Miscellaneous:** Other project experience includes the urban planning and development, streetscape design, roadway and storm drainage projects, as well as the project management of numerous major architectural projects throughout West Virginia.

**AFFILIATIONS**

West Virginia Chapter of the American Society of Landscape Architects

**AWARDS**

Honor Award for Shrewsbury St. Redevelopment Plan  
West Virginia Chapter of American Society of Landscape Architects



**ROBERT G. BELCHER, P.E.**  
**Senior Vice President, Engineering**  
**and Project Officer**

**EDUCATION**

West Virginia Institute of Technology, BSCE, 1983

**REGISTRATION**

Civil Engineering, West Virginia, 1996  
Civil Engineering, Ohio, 2006

**PROFESSIONAL  
HISTORY**

**January 1987 to Present: Chapman Technical Group**  
Senior Vice President and Project Officer.

**June 1984 to January 1987: Regional Intergovernmental Council**  
Planning and Development Council for West Virginia Region III - Metropolitan  
Planning Organization for Charleston, WV, MSA.

29 years professional experience.

**PROJECT  
EXPERIENCE**

**Water Systems:** Design and project management for numerous water systems for both public and private water companies. Projects include new water treatment plants as large as 10 MGD, improvements to existing plants, water mains and distribution systems. Water storage projects include glass-lined steel tanks, welded high-strength steel tanks, and elevated pedestal tanks.

**Wastewater Systems:** Design and project management for numerous wastewater systems throughout West Virginia. Projects include new, secondary and tertiary wastewater treatment plants as large as 4.5 MGD, improvements to existing plants, small-flow treatment plants, new and rehabilitation of wastewater collection systems, and facility plan updates.

**Miscellaneous:** Design and project management for large highway and bridge projects, airport improvements projects, large stormwater management projects including assistance with MS4 compliance, as well as potable water and wastewater system design for site development projects throughout West Virginia.

**AFFILIATIONS**

Water Environment Association - WV Section  
Contractor's Association of West Virginia - Associate Member  
American Water Works Association - WV Section  
WV Society of Professional Engineers  
American Council of Engineering Companies - ACEC/WV  
WVUIT Civil Engineering Advisory Board  
WV Qualifications Based Selection (QBS) Council

**AWARDS**

George Warren Fuller Award, 2001



**DALE E. WITHROW, AIT**  
**Project Coordinator, Department Manager**  
**Architecture**

**EDUCATION**

West Virginia Institute of Technology, AS, Drafting and Design, 1975.

**PROFESSIONAL  
HISTORY**

**November 2000 to Present: Chapman Technical Group**  
Project Coordinator/Department Manager.

**March 1993 to August 2000: The HDMR Group, Inc.**  
Project Coordinator.

**February 1990 to March 1993: AFAB Services**  
Owner - Designer/Drafter.

Prior to 1990 Mr. Withrow worked with several architectural and engineering firms as an employee and independent consultant.

From 1978 to 1987 he was a Facilities Planner for the Kanawha County Board of Education.

Mr. Withrow is a Project Coordinator involved in all aspects of a wide variety of architectural projects. He is also Manager of the Architecture Group.

38 years professional experience.

**PROJECT  
EXPERIENCE**

**Project Design and Management:** Experience ranges from drafting, detailing and design through construction observation and project management of numerous building projects in West Virginia, Kentucky and North Carolina including:

- |                                  |  |
|----------------------------------|--|
| - Residential/Housing            | - Military Support Facilities/Armories   |
| - Governmental Facilities        | - Grocery and Drug Chain Stores          |
| - Hospital/Healthcare Facilities | - Industrial Plant/Laboratory Facilities |
| - Public School Facilities       | - Office Buildings                       |
| - College Athletic Facilities    | - Banking Facilities                     |
| - Hotel/Hospitality Facilities   | - Americans with Disabilities Act        |
| - Airport Support Facilities     | Assessment and Implementation            |
| - Historic Preservation          | - Public Safety Facilities               |

**AFFILIATIONS**

Certified Architect-in-Training, State of Arizona  
President, St. Albans Business and Community Development Group  
Member, Friends of the Alban Theatre  
President, St. Albans Chamber of Commerce  
Chairman, St. Albans Blueprint Communities



**W. THOMAS CLOER, III, AIA, NCARB**  
**Project Architect**

**EDUCATION**

University of Tennessee, BArch, 2001

**REGISTRATION**

NCARB Registered Architect, 2009  
IDP Program completed.

**PROFESSIONAL  
HISTORY**

**October 2006 to Present: Chapman Technical Group**  
Project Architect and Architectural Designer

**2001-2006: NVisions Architects**  
Architect Intern and Architectural Designer

12 years professional experience.

**PROJECT  
EXPERIENCE**

Experience ranges from drafting, detailing and design through project management and construction administration of building projects throughout West Virginia including the following project types:

Public School Facilities  
Government Facilities  
Office Buildings  
Medical Office Facilities  
Single Family Housing  
Multi-family Housing  
Recreational Facilities  
ADA Assessments  
Site Planning

**AFFILIATIONS**

American Institute of Architects  
City of St. Albans Property and Maintenance Board, Member  
City of St. Albans Historic District Committee, Member  
Boy Scouts of America Troop 250 Committee Member



**ROBERT D. DINSMORE**  
**Project Designer**

**EDUCATION**

West Virginia University, BSLA, 2010

**PROFESSIONAL  
HISTORY**

**June 2010 to Present: Chapman Technical Group**  
Project Designer.

**Fall 2008 to Fall 2009: West Virginia University**  
Teaching Assistant, Intro to Landscape Architecture Graphics

**Fall 2009 to Spring 2010: West Virginia University**  
Teaching Assistant, History of Landscape Architecture

**Summer 2008: Austin Outdoor Landscape Professionals**  
Landscape Architecture Intern,

**2006 to 2007: Austin Outdoor Landscape Professionals**  
Project Manager

3 year of professional experience. Mr. Dinsmore is responsible for the design and development of urban design projects, parks and recreation projects, and landscape design.

**PROJECT  
EXPERIENCE**

**Urban Design:** Designed and developed a master plan as part of his senior thesis for the Boston waterfront development.

**Recreation Design:** Developed master plans and designs for various facilities as part of scholastic studies.

**Landscape Design:** Designed and installed numerous landscape plans for high end residential and resort projects constructed in Florida.

**AFFILIATIONS**

American Society of Landscape Architects WV Chapter (Chapter Director)  
Sigma Lambda Alpha Landscape Architecture Honorary (WVU President)  
G.E.R.M.A.N. Club of Virginia Tech  
Sunnyside Up Campus Neighborhoods Revitalization Corporation (Volunteer)

**AWARDS**

WV ASLA Honor Award for Design Excellence, Winner, 2012  
WV ASLA Merit Award for Design Excellence, Winner, 2012  
ASLA Student Honor Award, Winner, 2010  
ASLA Student Merit Award, Nominee, 2010



## Canaan Valley Resort State Park Ski Area Improvements

11022



### **Canaan Valley Resort State Park WV DNR Parks and Recreation 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.





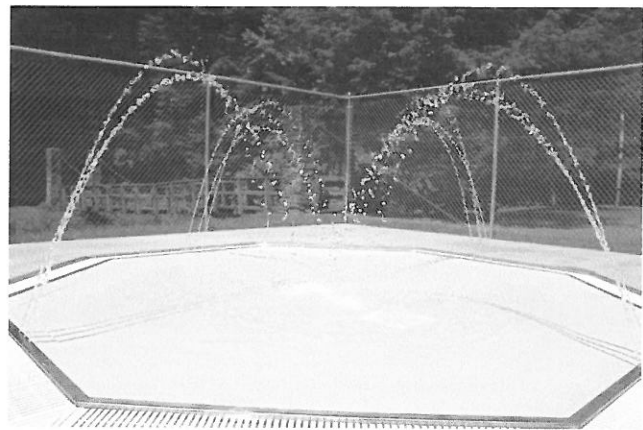
## Laurel Lake WMA Swimming Pool

08080



### Laurel Lake WMA Swimming Pool Mingo County, West Virginia

The West Virginia Division of Natural Resources swimming pool at the Laurel Lake Wildlife Management Area near Lenore, West Virginia had fallen into serious disrepair and had actually closed down. Chapman Technical Group designed a rehabilitation of the pool that included a new stainless steel gutter recirculation system, a membrane liner, a new interactive wading pool, and new concrete decks. After the demolition of the old bathhouse, a new bathhouse was built which also houses the filtration equipment for the wading pool. The project was completed in 2010 at a cost of \$714,000.



*The swimming pool renovations included a new interactive wading pool.*



## Blackwater Falls Cabins

07069



### **Blackwater Falls Cabins** **WV DNR Parks and Recreation** Davis, 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.



## Beech Fork State Park

97049



### West Virginia Division of Natural Resources

State Capitol, Building 3, Room 669  
1900 Kanawha Boulevard, East  
Charleston, West Virginia 25305

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. With its distinctive high sloped roof, the bathhouse was designed as the architectural centerpiece of the Bowan Day Use area while complementing the architecture of the existing park structures. The cabins provide the warmth of natural materials such as wood and stone, yet are fully equipped with modern conveniences such as air conditioning and microwaves.





## Beech Fork State Park

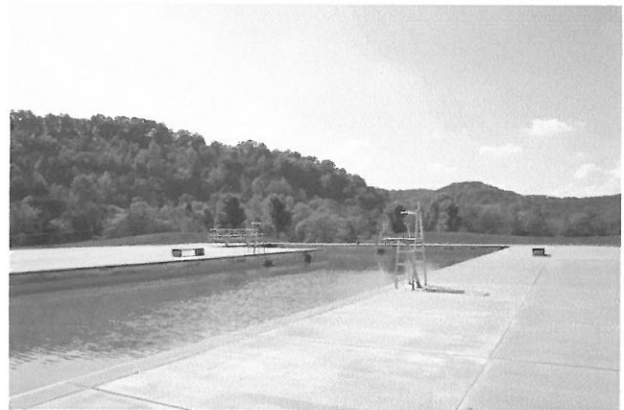
97049



### West Virginia Division of Natural Resources

State Capitol , Building 3, Room 669  
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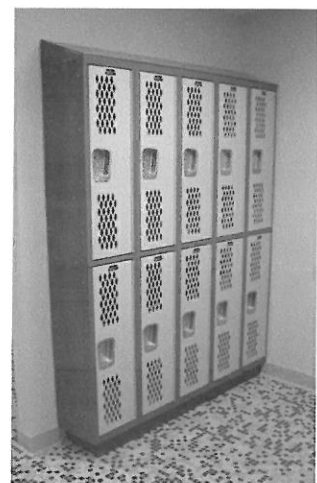
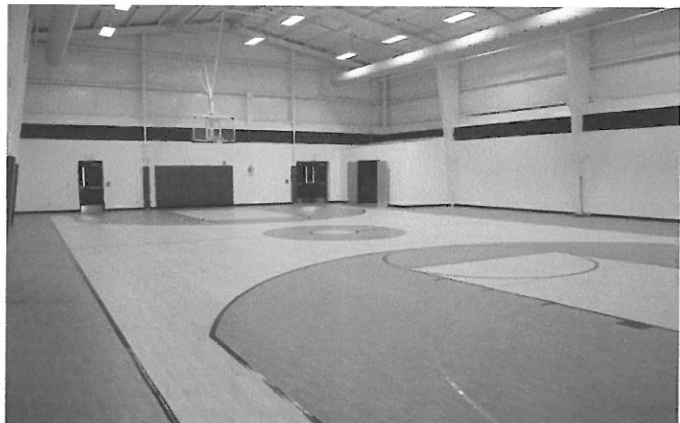
## Pocahontas County Wellness Center



**Pocahontas County Wellness Center**  
Marlinton, West Virginia

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

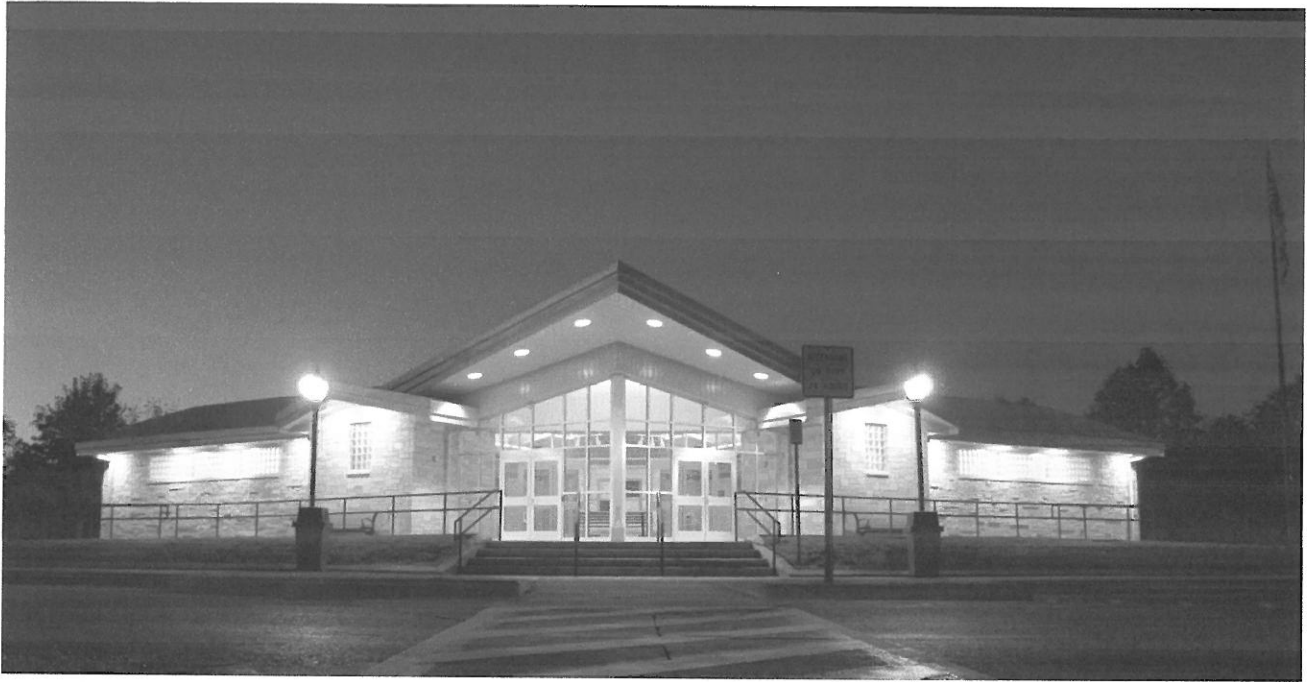
The facility is configured with separate entries to allow use by the school and the public at all times of the day while limiting or prohibiting interaction of the various groups.





## Burnsville Rest Areas

00003



### I-79 Rest Areas

Burnsville, West Virginia

The Burnsville Rest Areas are the first of the new standard rest areas to be built around the state for the West Virginia Department of Transportation. A dual-facility layout ensures that demand will be met for many years. Native materials, including smooth cut and rough stone, were used inside and out. Low maintenance but highly durable materials including the tern-coated stainless steel roof, glass, aluminum, wood, polished ground-faced CMU, and epoxy terrazzo were used throughout. The design plays off of West Virginia imagery and creates safe, warm, and welcoming spaces. Separate maintenance and vending buildings complement the main structures.







## **B. Craig Miller**

**PE, LEED-AP**

**Relationship Manager • President**

WV DNR  
RFP# DNR 214016  
Miller Engineering, Inc.  
September 17, 2013

Craig founded Miller Engineering in 2003 and serves as President and Principal Engineer. He has more than (15) 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. His experience with a wide range of projects including HVAC, electrical, plumbing, infrastructure upgrades, building automation, energy efficiency, and maintenance/renovation among others, allow him to serve in multiple capacities within a given project. Craig will serve as the "Relationship Manager" for Miller Engineering as the main communication interface between the Owner, the design team, contractors, and end users.

### **PROFILE**

#### **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 HIGHLIGHTS**

- Systems replacement specialist.
- WV state specialist on aquatic structures.
- Consistent operable and maintainable designs.
- Below industry change order rate status.
- High level of customer satisfaction standing.
- Accelerated design and early project delivery achieved on private surgical hospital.

### **EMPLOYMENT HISTORY**

2003- Present	Miller Engineering, Inc.	President, Relationship Manager
2002-2003	Casto Technical Services	Existing Building Services Staff 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

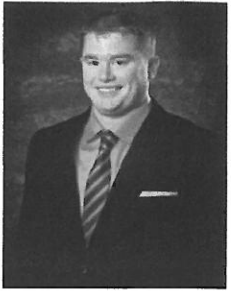
### **EDUCATION**

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**

**Staff Engineer**

WV DNR  
EOI# DNR 214016  
Miller Engineering, Inc.  
September 17, 2013

As a project manager, Travis oversaw many electrical construction projects of varying scope and size. These projects have provided Travis with experience in construction and practical design. Travis has successfully passed the principles and practices examination and is a recently licensed professional engineer. He provides HVAC, Mechanical, Plumbing, and Electrical design services for Miller Engineering along with facility master planning, estimation, and construction administration services.

### **PROFILE**

#### **Project Role: Design of Mechanical, Electrical, and Plumbing Systems**

- Design of Mechanical, Electrical, and Plumbing Systems
- Submittal and RFP Review
- RFI Review and Response

### **EMPLOYMENT HISTORY**

2011-Present	Miller Engineering, Inc.	Staff Engineer/ MEP Designer
2006-2011	Tri-County Electric, Co.	Project Manager
2006-2006	Schlumberger	Field Engineer Trainee - MWD

### **EDUCATION**

2006	West Virginia University	BS – Mechanical Engineering
------	--------------------------	-----------------------------

### **Certifications**

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



**Joseph Machnik**

**MEP Designer**

WV DNR  
EOI# DNR 214016  
Miller Engineering, Inc.  
September 17, 2013

Joseph joined Miller Engineering in order to support computer aided design and modeling functions while enhancing design synergy to occur for our clients. He has experience with AutoCAD, MEP and Revit MEP. He provides modeling, drafting, and supervised design services and construction support for Miller Engineering.

### **PROFILE**

#### **Project Role: Design of Mechanical, Electrical, and Plumbing Systems**

- CADD Coordination of New Construction and Renovation Designs
- Assist with Mechanical, Electrical, and Plumbing systems.

### **EMPLOYMENT 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*



**Jack Jaminson**

**Code Professional • Electrical Designer**

WV DNR  
EOI# DNR 214016  
Miller Engineering, Inc.  
September 17, 2013

Jack brings over (20) years of experience in the commercial electrical construction field, and over (10) years as an electrical/building inspector. He is certified as a Master Code Professional and has many professional registrations and certifications. Jack also teaches code review classes throughout the year. Through his experience, he is familiar with many local and state code enforcement officials.

### **PROFILE**

#### **Project Role: Code Professional**

- Code Research
- Facilities and Project Evaluation
- Management of Project Observations
- Field Observations and Issue Resolutions

### **PROFESSIONAL HIGHLIGHTS**

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

### **EMPLOYMENT HISTORY**

2010- Present	Miller Engineering, Inc.	Code Professional
1999-2010	Megco Inspections	Chief Inspector
1972-1998	Jamison Electrical Construction	Electrician
1971-1972	General Electric	Inside Sales Engineer

### **EDUCATION**

1971 Fairmont State College BS-Engineering Technology-Electronics

### **Licenses and Certifications**

- Master Code Professional
- ICC Commercial Building, Building Plans, Commercial Plumbing, Residential Energy, and Accessibility Inspector/Examiner
- IAEI Master Electrical Inspector
- Certified WV Home Inspector
- Class C Electrical Inspector – WV, PA, MD, & OH
- WV Master Electricians License
- NCPCCI-1A, 2A, 4A, & 5A: 1 & 2 Family Dwelling
- NCPCCI-2B, 2C, 4B, 4C: Electrical & Mechanical General/Plan Review
- OSHA 30 Hour Course – General Industry
- NFPA Code Making Panel 14 – NEC 2014 Edition



**Robert Angus**

**Construction Project Representative**

WV DNR  
RFP# DNR 214016  
Miller Engineering, Inc.  
September 17, 2013

(20) Years of maintenance, operations, and construction management proceeds Robert'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. Robert's hands-on, 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. Robert is involved at the estimation phase to allow for continuity within the project's design and construction.

**PROFILE**

**Project Role: Constructability Review and Estimation**

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

**PROFESSIONAL HIGHLIGHTS**

- In (3) years has managed projects totaling \$35 million dollars.
- Maintains a change order rate of less than (5%) consistently.
- (10) Years of owner experience in large scale construction.
- Advocates and participates in community leadership.

**EMPLOYMENT HISTORY**

2009- Present	Miller Engineering, Inc.	Construction Project 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 WV General Contractor
- Licensed HVAC Contractor
- Certified HVAC Mechanic Contractor
- Licensed Journeyman Electrician
- Licensed Master Plumber
- OSHA 10-Hour Construction Safety & Health

## Hawks Nest Lodge

WV DNR

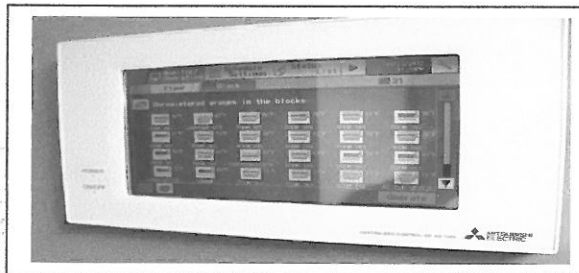
RFP# DNR 214016

Miller Engineering, Inc.

September 17, 2013



(Miller Engineering Services)  
Mechanical, Electrical, Plumbing



## Background and Project Scope

Total Project Budget \$1.3M

MEP Budget \$509k

Project Status: Complete

Location: Ansted, West Virginia

Facility Area 28, 500 ft<sup>2</sup>

Project Completion Date: 2012

Hawks Nest Lodge is located on the grounds of Hawks Nest State Park in West Virginia. Hawks Nest HVAC replacement focused on the patron rooms within the lodge but the designs for the public areas were also included to prepare for future funding.

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

## Miller Engineering's Role

The construction period was shortened by (20%) by the owner after bidding, making our construction administration all the more critical in delivering the project. The funding agency commented that the project was initiated by the owner "much later" than many others but finished first and completely met the requirements of the funding agency.

The response has been excellent, the patrons of the lodge immediately began to comment on how much nicer their visits are now than before.

### Project Owner

West Virginia Department  
Of Natural Resources  
324 Fourth Ave.  
S. Charleston, WV 25303  
Phone: (304) 558-3315

### Project Manager

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

### Prime Contractor

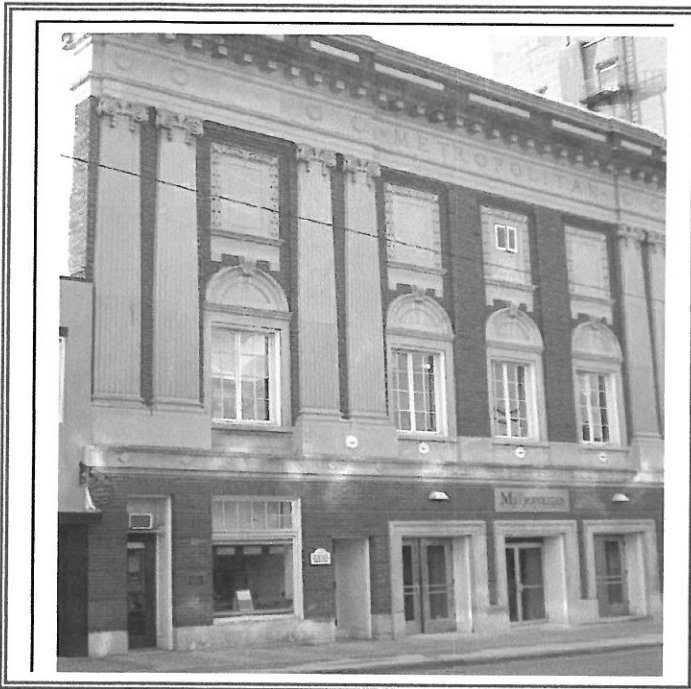
Reno Bros, Inc.  
Eric Mahaffey  
3406 43<sup>rd</sup> St. Box 53  
New Brighton, PA 15066  
Phone: (724) 843-8000





# Metropolitan Theater

WV DNR  
RFP# DNR 214016  
Miller Engineering, Inc.  
September 17, 2013



(Miller Engineering Services)  
Mechanical, Electrical and Plumbing

## Background and Project Scope

Total Project Budget \$325k  
MEP Budget \$325k  
Project Status: Complete

Location: Morgantown, West Virginia  
Facility Area 15,400 ft<sup>2</sup>  
Project Completion Date: 2006

The Metropolitan Theater is a historical structure which is currently being revitalized by the City of Morgantown and a concerned group of citizens. Air condition is required to use the facility throughout the year and to maintain a consistent atmosphere to preserve the structure's unique plaster interior finish.

## Miller Engineering's Role

The Metropolitan Theater underwent an HVAC system upgrade several years ago but work was left unfinished and the budget was expended by a previous contractor. No project record drawings were created. After a field study was concluded, new, independent, HVAC calculations and computer modeling of the building systems were necessitated.

The goal of protecting the historic nature of the theater during system upgrades was paramount. The project entailed design, code upgrades, and the installation of air distribution systems, retrofits of air handling systems, completion of hot water reheat piping systems, and new control systems utilizing (CO<sub>2</sub>) demand based ventilation. The project was a success and yielded systems with increased energy efficiency. Project record drawings were created, renovations enhanced the facility utilization, and the historic landmark's integrity was left intact.

### Project Owner

BOPARC of Morgantown  
797 E. Brockway Avenue  
Morgantown, WV 26501  
Phone: (304) 296-8356

### Project Manager

Mark Wise  
BOPARC  
797 E. Brockway Avenue  
Morgantown, WV 26501  
Phone: (304) 296-8356

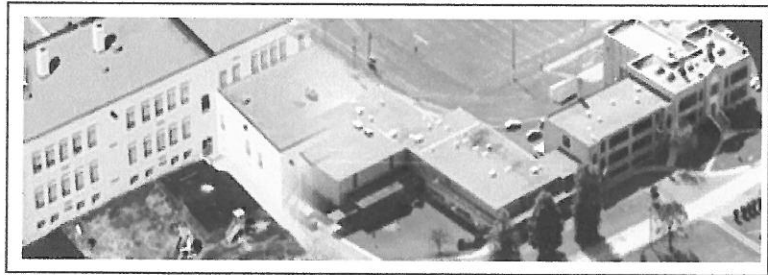
### Prime Contractor

Suburban Plumbing and  
Heating  
Tom Turner  
240 Scott Avenue #3  
Morgantown, WV 26508  
Phone: (304) 216-5570



# Mapletown Junior/ Senior High School

WV DNR  
EOI# DNR 214016  
Miller Engineering, Inc.  
September 17, 2013



(Miller Engineering Services)  
Mechanical, HVAC

## Background and Project Scope

Total Project Budget \$1,235k

MEP Budget \$1,235k

Project Status: Complete

Location: Masontown, Pennsylvania

Facility Area 18, 500 ft<sup>2</sup>

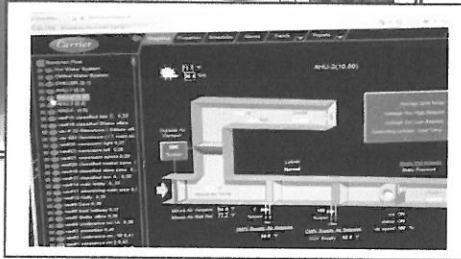
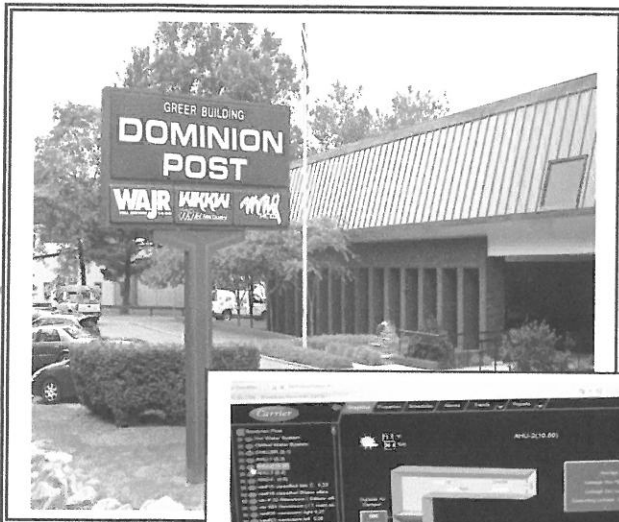
Construction of the facility was undertaken in three different time periods spanning several decades thus, resulting in multiple types of equipment and systems that yielded lack of capacity. The HVAC and mechanical systems had reached their life expectancy. The HVAC piping had failed and needed to be replaced. The goal of the project was to replace the heating system while creating a design and system that is compatible with upgrading the cooling system in the future.

## Miller Engineering's Role

A field study determined that multiple systems within the structure are degenerated, lacking capacity, unreliable, and inefficient. The goal of the project is to apply the best systems to the facility that will balance cost, reliability, improve function, and provide long term energy efficiency. The Miller Engineering project planning method utilized computer modeling of the building and its current systems in order to generate options that were feasible and fit within the owner's construction time-frame. The owner opted for a (2) phase construction process. Phase (1) of construction was so successful that the owner has opted to include the cooling system upgrade during Phase (2) of construction, which is also complete.

Project Owner	Project Manager	Prime Contractor
Southeastern Greene School District 1000 Mapletown Road Greensboro, PA 15338 Phone: (724) 943-3630 Ext. 2243	Patrick R. Sweeney Business Manager 1000 Mapletown Road Greensboro, PA 15338 Phone: (724) 943-3630 Ext. 2243	Reno Bros, Inc. L.J. Wolfe 3406 43 <sup>rd</sup> Street Box 53 New Brighton, PA 15066 Phone: (724) 843-8000





(Miller Engineering Services)  
Mechanical and Electrical

## Background and Project Scope

Total Project Budget \$1.8M

MEP Budget \$1.8M

Project Status: Complete

Location: Morgantown, West Virginia

Facility Area 18, 000 ft<sup>2</sup>

Project Completion Date: 2010

The Greer building is home to the Dominion Post newspaper, several local radio stations, and office space for these media entities. Upon construction in 1967, the multi-zone HVAC systems were state of the art. The systems have lasted twice their life expectancy. This project entailed reconfiguring air systems to better serve the floor plan of the building and create consistent atmospheric conditions for its residents; keeping in mind the electronic production needs of the facilities users. Temperature fluctuations throughout the building were extreme and posed issue to its residents. A previous repair had compounded piping issues.

## Miller Engineering's Role

During a field study, Miller learned of HVAC system disintegration, interconnection of air systems between two levels of the building, and the need for the facility to maintain occupancy during the renovation process. The goal of the project was to be a phased approach that integrated, updated, and stabilized temperatures throughout the current floor plan, building levels, and pending office reconfigurations. The main air handling systems, piping, and ductwork were replaced and reconfigured as a necessity to serve the building's multiple levels and floor plans. The project was a success as a newly designed system was implemented into the existing floor plan and devised as scalable for future changes. Thus, temperature control issues were resolved and the residents of the building could enjoy a more hospitable working environment.

### Project Owner

Greer Industries, Inc.  
1201 Hal Greer Boulevard  
Morgantown, WV 26508  
Phone: (304) 376-2642

### Project Manager

Christ Halterman  
Director of Operations  
1201 Hal Greer Boulevard  
Morgantown, WV 26508  
Phone: (304) 376-2642

### Prime Contractor

Delattre Corporation  
Marty Delattre  
505 Hudson Avenue  
Monongahela, PA 15063  
Phone: (724) 258-8571



# David L. Morris

PO Box 104  
Walton, West Virginia 25286  
(304) 741-1623 cell  
(304) 577-9381 office  
Email: dlm@dlmdecisions.com



## CAREER HISTORY:

2012 – Present	DLM Decisions LLC	Managing Member
2009 – 2010	Pray Construction Company	Project Manager
1997 – Present	Quantum Construction Services, Inc.	President
1994 – 1997	Wiseman Construction Company	Vice President
1988 – 1994	Pray Construction Company	Chief Estimator / Project Manager / Estimator
1983 – 1988	State Farm and Prudential Insurance	Estimator in Property & Casualty Divisions

## CAREER PROJECT LIST – PARTIAL:

### Major Projects Constructed:

- Star Credit Union Branch Office – New Building – Beckley, WV and St. Albans, WV
- West Virginia State University, Erickson Alumni Center – New Building – Institute, WV
- West Virginia State University, Plaza – New Construction – Institute, WV
- Clay Junior High School – 3 Story Instructional Wing Addition – Clay, WV
- West Virginia Capitol Complex, Cultural Center, Great Hall – Renovation – Charleston, WV
- West Virginia Radio Corporation, Complete Exterior/Partial Interior Renovation – Charleston, WV
- Hatfield & McCoy Trailhead – New Building – Pineville, WV

### Major Historical Projects Constructed:

- West Virginia Main Capitol Building, Interior Dome – Renovation – Charleston, WV
- West Virginia Main Capitol Building, West Wing Senate Offices – Renovation – Charleston, WV
- West Virginia Main Capitol Building, South Plaza – Historical Replication – Charleston, WV
- Marshall University, Old Main Building – Masonry Restoration – Huntington, 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)

### Major Projects Consulted:

- West Virginia Main Capitol Building, Exterior Dome – Probes – Charleston, WV
- West Virginia Main Capitol Building, Exterior Stone – Probes – Charleston, WV
- Twin Falls Resort State Park, Pool – Cost Analysis – Mullens, WV
- Hawks Nest State Park, Stair Tower – Cost Analysis – Ansted, WV
- Pipestem Resort State Park, Pool – Cost Analysis – Pipestem, WV
- Twin Falls Resort State Park, Beam Repair – Construction Administration – Mullens, WV

## EDUCATION:

Fairmont State College; Fairmont, West Virginia 26554  
Bachelor of Science degree in Architectural Engineering Technology  
(May 1983)

## LICENSES:

WV General Contractors License WV027639  
WV Master Plumber PL10981