



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
 DNR211120

PAGE
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF
 FRANK WHITTAKER
 304-558-2316

*921161734 01 304-291-2234
 MILLER ENGINEERING INC
 250 SCOTT AVE SUITE 3
 MORGANTOWN WV 26508

DIVISION OF NATURAL RESOURCES
 PARKS & RECREATION SECTION
 324 4TH AVENUE
 SOUTH CHARLESTON, WV
 25303-1228 304-558-3397

DATE PRINTED 02/09/2011	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
BID OPENING DATE: 03/17/2011		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		
ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL EXPRESSION OF INTEREST (EOI) THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES IS SOLICITING BIDS FOR PROFESSIONAL ARCHITECTURAL AND ENGINEERING SERVICES TO DESIGN, CONSTRUCT, OR SPECIFY IMPROVEMENTS TO CERTAIN BUILDINGS AT HAWKS NEST AND TWIN FALLS RESORT STATE PARKS PER THE ATTACHED SPECIFICATIONS. ALL TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WV PURCHASING DIVISION VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV OR VIA FAX AT 304-558-4115. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 03/02/2011 AT 4:00 PM. ALL TECHNICAL QUESTIONS WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE. EXHIBIT 10 ADDENDUM ACKNOWLEDGEMENT I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED						

RECEIVED
 2011 MAR 15 A 10:08
 PURCHASING DIVISION
 STATE OF WV

REQUISITION NO.:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *[Signature]* TELEPHONE: 304 291 2234 DATE: 10 Mar 11
 TITLE: *[Signature]* FEIN: 86-1081386 ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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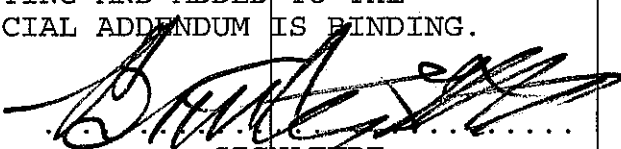

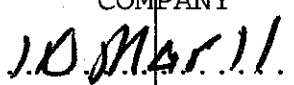
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ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.						
ADDENDUM NO.'S:						
NO. 1					
NO. 2					
NO. 3					
NO. 4					
NO. 5					
I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.						
VENDOR MUST CLEARLY 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.						
				 SIGNATURE  COMPANY  DATE		

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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<p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p> <p>NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 44</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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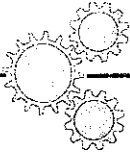
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PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID: <p style="text-align: center; font-size: 1.5em;">304-291-2234</p>						
CONTACT PERSON (PLEASE PRINT CLEARLY): <p style="text-align: center; font-size: 1.5em;">CRAIG MILLER,</p>						
***** THIS IS THE END OF RFQ DNR211120 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

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TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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MILLER

"Antequerped with Excellence"

10 Mar 2011

Mr. Frank Whittaker
Senior Buyer
WV Purchasing Division
2019 Washington St. East
POB 50130
Charleston, WV 25305

Mr. Whittaker,

Miller Engineering, Inc. is pleased to express our interest in providing professional engineering services to the WV Purchasing/ WV Division of Natural Resources RFQ# DNR211120 for Professional Architectural and Engineering and Related Services for Improvements and Repairs to Certain Buildings at Hawks Nest and Twin Falls Resort State Parks. We believe MEI and Mills Group are highly qualified to provide the services required for the project.

MEI will be the prime consultant on this project and Craig Miller, President, will be the project manager and Principal Engineer of Record. Mills Group of Morgantown will provide architectural and project management support as needed, as a sub-consultant to MEI. Michael Mills, AIA of Mills Group will lead the Mills' efforts.

MEI performs design services in throughout West Virginia on a daily basis. We provide services on new construction, facility assessment, renovation, maintenance repair and engineered equipment replacement. Our history of operations, construction and repairs of HVAC, Mechanical, and Electrical systems ranges from small to large buildings throughout the state. MEI delivers a quality, cost effective, product developed through a highly interactive process from initial contact through the warranty period. We believe in frequent communication between the Owner, Designer, and Contractor to help ensure the work is not stopped by a small issue. This "hands on" approach helps spot potential problems and answer questions proactively. MEI has been repeatedly praised by its clients for the time spent and dedication shown.

We will directly use our engineering abilities and extensive design experience to your advantage. MEI has significant and varied experience in the repair and replacement of steam and hot water heating systems in both newer and older structures. Craig Miller will lead this effort. He is both a graduate of the WVU Engineering School and a former WVU Facilities' Engineer. He has experience while working in the educational, recreational, commercial HVAC, and consulting industries and possesses an operational knowledge of facilities maintenance and

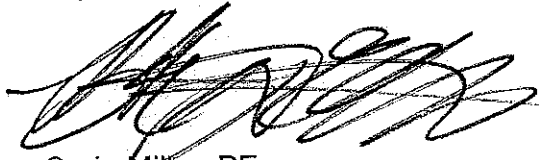
construction. Craig designed and managed a great many projects while at WVU and has continued to advance his skills over the years. Craig will be assisted by Mr. Brandon Merriman EI, Mr. Jack Jamison, Miss Shelby McMahon, Mr. Joe Machnik and Mr. Robert Angus as required to implement the project.

Michael Mills, AIA heads Mills Group, based in Morgantown, which is particularly well known for their acumen in working with and repairing historic structures. Mills will act as the interface to the WV Historic Office and to the funding agencies. They will provide architectural and historical support as needed on the project.

MEI has the training, experience, and multi-discipline support to meet the needs of this project. Due to our small size, we can mobilize quickly. We have an excellent working knowledge of the facility type and program in question, and can deliver high quality, personalized, professional services. We would like to thank you for this opportunity and if Miller Engineering, Inc can be of service to you in this matter, please don't hesitate to contact me at 304-291-2234.

Please find our response to your expression of interest attached.

We wish you great success with the Hawks Nest and Twin Falls Resort Improvements Project and continued success in the future.



Craig Miller, PE
President
Miller Engineering, Inc.

RFQ No. _____

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: 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 the debt owed is an amount greater than one thousand dollars in the aggregate.

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.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

Under penalty of law for false swearing (*West Virginia Code §61-5-3*), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: M. H. G. Engineering, Inc

Authorized Signature: [Handwritten Signature] Date: 10 Mar 11

State of WV

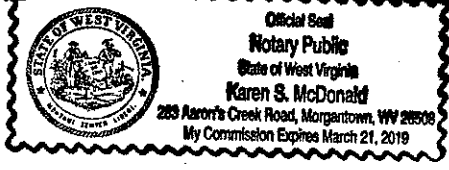
County of Moxon, to-wit:

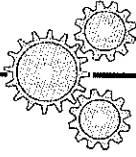
Taken, subscribed, and sworn to before me this 10th day of March, 2011.

My Commission expires 3/21, 2019

AFFIX SEAL HERE

NOTARY PUBLIC Karen S. McDonald





MILLER

Engineering, Inc.
"Autographed with Excellence"

10 Mar 2011

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Senior Buyer
WV Purchasing Division
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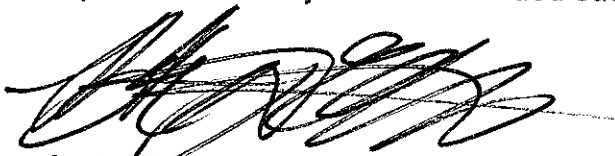
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Craig Miller, PE
President
Miller Engineering, Inc.



MILLER ENGINEERING, INC.

SUMMARY

Miller Engineering, Inc. (MEI) provides professional services to facility owners and operators, architects, and contractors throughout West Virginia, Pennsylvania, Ohio, and Western Maryland. MEI services range through all facets of mechanical, electrical, and plumbing design as well as construction administration and project management. We utilize the abilities of designers with many years experience in their area of expertise, teamed with younger designers on a "best resource for the project approach". We also provide project management services at levels ranging from general oversight to complete project delivery through all phases of design and construction. Our personnel have worked in both the private and public sector and are familiar with many methods of project delivery from classic design/bid/build to full design/build with partnering.

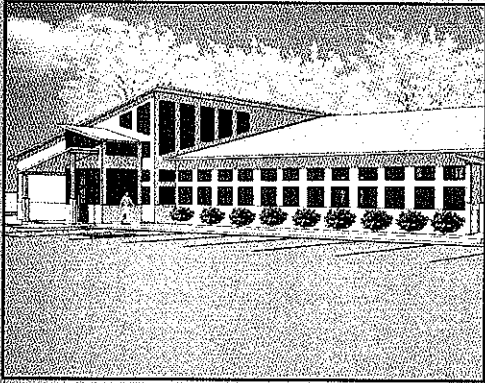
MEI has developed the following philosophy to guide the performance of its services:

- Provide superlative design services to our clients in new construction, renovations, and daily operations.
- Perform work in a timely, accurate, and professional manner.
- Present multiple alternative and solutions whenever possible.
- Work with our clients to control first and life cycle costs.
- Be a technical "sounding board" for our clients in all situations.
- Strive to maintain professional competency through continuing education and training.

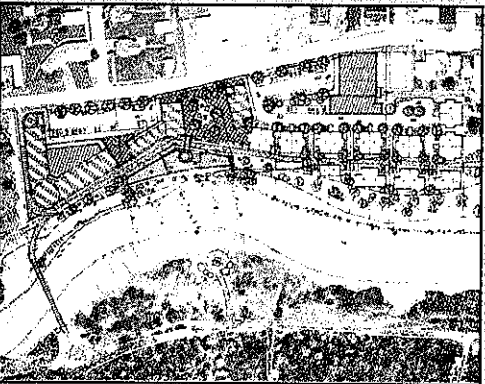
MEI utilizes a "practical application" approach to all projects throughout the design process to provide a "well rounded" result. This methodology emphasizes the best overall solution, meeting all the client's needs, instead of just the best technical solution. We believe our small size provides a distinct advantage to our clients and affords us the freedom to easily team with the clients to achieve the overall best possible result. We like to say "we're small but mighty".

FIRM PROFILE

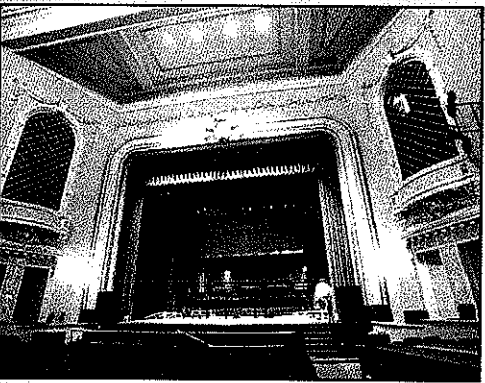
ARCHITECTURE



PLANNING



PRESERVATION



Who We Are.....

Designing on Principles of the Past and Preserving for the Future

Since starting the firm in the Fall of 2005, we have maintained a focus on the design of new structures which encompass the rich architectural character of the past, executed site plans that are respectful of the opportunities and constraints, and developed sensitive preservation plans for historic buildings.

We are diligent in understanding our client's spatial needs, design goals, and budget. Our design process is built on the foundation of research, data collection, client collaboration, and creative solutions.

West Virginia abounds with unearthed architectural treasures. A goal of the practice is to embrace the architectural heritage of the region and to celebrate the best of our past.

Our firm is committed to a quality end product which is derived from experience, diligence, and collaboration. We look forward to bringing our talents to support you on your next project.

Handwritten signature of Michael Mills.

ARCHITECTURE

The Mills Group focuses on residential, commercial, public, and cultural facilities, with an emphasis on traditional design principles, vernacular design influences, and long-term sustainability. The firm designs new structures, which reflect the rich architectural character of the past and use traditional architecture influence, but also specialize in the rehabilitation and adaptive reuse of existing structures, striving to emphasize their cultural, historical, and environmental contexts.

PLANNING

The Mills Group approaches the planning process of green field and infill sites with the responsibility of being a "Place Maker". Clients entrust us with the task of creating the overarching plan that will foster a rich and engaging environment for people to live, work, and play.

PRESERVATION

The Mills Group believes that sensitive and responsible preservation and restoration work must be responsive to the category of historical significance of the building. Each building provides a unique set of requirements and conditions; so too, each solution is unique.



B. CRAIG MILLER, PE, LEED-AP
PRESIDENT
ENGINEER IN RESPONSIBLE CHARGE

EDUCATION

Bachelor of Science in Mechanical Engineering,
West Virginia University - 1995
Bachelor of Arts in Mass Communication,
University of Charleston (WV) - 1988

REGISTRATIONS

Professional Engineer, West Virginia
Professional Engineer, Pennsylvania
Professional Engineer, Maryland
Professional Engineer, Ohio

QUALIFICATIONS

Craig has more than 15 years' experience in the design, specification, and construction/ project management of mechanical, electrical, and plumbing systems and 10 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.

Prior to founding MEI, Craig worked as a staff engineer for Casto Technical Service (Trane) performing engineering evaluation and design on various mechanical system upgrades including: Marion County Courthouse, Davis & Elkins Student Union, Charleston Area Medical Center, Women's and Children's Hospital, and Wetzel County Hospital. Preceding his time with Casto Technical, Craig spent two years at Uniontown Hospital as Assistant Director of Engineering. He managed the day-to-day operations of maintenance personnel, managed projects and performed operational engineering service to the facility mechanical, electrical, and plumbing systems. His principal operational engineering foci were the hospitals' steam, chilled water, air handling infrastructure and their associated control systems. He managed real-time upgrade projects to the hospital facilities and the full



accreditation review of hospital systems operation and maintenance.

Craig worked as a staff engineer at West Virginia University Physical Plant for six years. During that time he managed multiple facility and infrastructure upgrade projects, performed engineering design, assisted maintenance personnel with operational issues, and managed the University's Energy Program. Additionally, he served as the Owner's design review engineer on approximately \$130 million in new capital construction. Craig's WVU projects included mechanical, electrical, plumbing, infrastructure, control, and energy systems repair and maintenance totaling approximately \$20 million.

Prior to his position at WVU, Craig worked in operations and facility maintenance for the Morgantown Board of Parks and Recreation while attending the WVU School of Engineering. He performed mechanical and electrical systems maintenance duties and associated engineering design work while helping to maintain and upgrade the park systems' facilities. Craig started his mechanical systems career as an apprentice and then as a maintenance systems mechanic in the Physical Plant at the University of Charleston.



B. Craig Miller, PE, LEED-AP

President

Miller Engineering, Inc

BS Mechanical Eng., West Virginia University, 1995

BA Mass Communications, Univ. of Charleston, 1988

RESPONSIBILITIES INCLUDE:

Engineer in Responsible Charge of all projects.

Design, Project Management, Construction Administration of Mechanical, Electrical, Plumbing systems for new construction and renovation projects.

Managing all aspects of projects from evaluation and initial identification of project opportunities, developing concept, schematic and construction design, bidding, submittal review and project management as required to deliver project with specific objectives in a given time frame.

Registrations: Registered Professional Engineer in West Virginia, Pennsylvania, Maryland, and Ohio

PROFESSIONAL HISTORY

CASTO TECHNICAL SERVICES

Charleston, West Virginia

Existing Building Services Staff Engineer

Nov 2002 – September 2003

Duties include:

Completion of HVAC performance contracting and “turn key” retrofit projects.

Managing all aspects of projects from evaluation and initial identification of project opportunities, developing concept, schematic and construction design, managing project team and subcontractors to deliver project with specific objectives in a given time frame.

Responsible for administration, implementation, and management of performance contract based and “turn key” mechanical, electrical projects.

UNIONTOWN HOSPITAL ENGINEERING DEPARTMENT

Uniontown, Pennsylvania

Supervisor of Engineering and Clinical Engineering

Feb. 2001 – Oct 2002

Work included:

Supervising Engineering personnel in the day-to-day operation of Hospital's physical facilities including: mechanical, electrical, plumbing, and structural troubleshooting.



Managing the Clinical Engineering technician in the repair and maintenance of patient-critical support and monitoring equipment.
Managing small alteration and construction projects
Managing the facility's preventative maintenance program.
Re-commissioning HVAC systems and controls.
Managing the personnel safety, and "cross training" program.
Keeping the hospital code compliant with such codes as: NFPA, NEC, ADA, BOCA, JCAHO.

WEST VIRGINIA UNIVERSITY PHYSICAL PLANT
Morgantown, West Virginia

Staff Engineer

Nov. 1995 - Feb2001

Work included:

Assisting in-house maintenance personnel in troubleshooting mechanical, electrical, plumbing, and structural operations problems.
Assisting in-house personnel in maintenance of the University's facilities.
Managing the University Energy Efficiency Program
Scoping, budget estimating, designing, preparation of project documents including drawings and specifications, bidding, and overall project management of alteration, maintenance, and repair projects in support of the University function as a major research institution (project list attached).
Managing projects which have been designed by outside A/E firms
Infrastructure planning for both alterations and capital construction projects
Reviewing designs by outside A/E firms for compliance codes such as: NFPA, NEC, ADA, BOCA, ALAC, as well as the University's construction standards and constructability.

WEST VIRGINIA UNIVERSITY PHYSICAL PLANT
Morgantown, West Virginia

Interim Manager of Alterations, Engineering, & Energy Unit

November 1997 - March 2000

Duties included all duties of Staff Engineer's Position listed above and additionally:

Managing day to day operation of the Engineering Unit and it's integration with other Physical Plant units, other University departments, and outside entities such as contractors and the public
Integrating the Engineering Unit with the Capital Construction Unit in the design review of all Capital projects
Supervision and tasking of Staff Engineers, Alterations Project Managers, Project Inspector, Landscape Designer, Elevator Contract Manager, Drafting Technician, Secretary/Receptionist, Student Interns
Prioritization of Unit's work responsibilities in such a manner as to deliver projects on-time, within budget
Review of all the unit's design and contract work prior to release for procurement of services



**BOARD OF PARKS AND RECREATION COMMISSIONERS (BOPARC)
Morgantown, West Virginia**

Caretaker – Krepps Park

May 1990 – November 1995

Work included:

Managing aquatics facilities operations

Performing maintenance and repair work to park system facilities

Design and construction of facilities upgrades to park system facilities

UNIVERSITY OF CHARLESTON PHYSICAL PLANT

Charleston, West Virginia

Electrician / HVAC Mechanic

October 1983 – August 1988

Work included:

Work as systems mechanic performing maintenance, repair, and construction to mechanical, Electrical, and Plumbing systems throughout the University facilities.



BRANDON MERRIMAN, EI
MECHANICAL DESIGNER

EDUCATION

Bachelor of Science in Mechanical Engineering
West Virginia University - 2006
Promise Scholar

Master of Business Administration
West Virginia University - 2010

QUALIFICATIONS

Brandon is a MEP designer of over 4-1/2 years experience in the design, specification, and project management of projects. Brandon recently completed his MBA at WVU. He is a WV certificated engineering intern and is preparing to set for his professional engineer's registration in April 2011. A graduate of the West Virginia University College of Engineering, Brandon first worked for MEI as an intern during the summer of 2005 and his senior year at WVU. After graduation Brandon came to MEI full time as a mechanical engineering intern/designer.

Brandon has been highly involved in the design of MEP systems for many facilities since arriving at MEI. He arrived at MEI with an excellent academic record and a willingness to learn and has become a highly valuable member of our team in a short period of time. Over the last four-plus years he has been highly involved with not only the design but the construction administration of a variety of projects including renovations and new construction. His work has proven invaluable and he possesses a keen ability to grasp and apply new information.

Brandon will be setting for his Professional Engineer's license exam in 2010 and plans to continue consulting.

REGISTRATIONS

Fundamentals of Engineering, West Virginia PE Board
- April 2006



Brandon Merriman - EI

BS Mechanical Engineering, West Virginia Univ – 2006
MS Business Administration, West Virginia - 2010

Mechanical, Electrical, Plumbing Designer
Miller Engineering, Inc 2007 – present

RESPONSIBILITIES INCLUDE:

Facilities evaluation

Design of mechanical, electrical and plumbing systems for renovations,
additions, and new construction.

Management of project construction including submittal review and

Licenses and Certifications:

Engineer in Training Certification, WV PE Board, 2006



JACK JAMISON
CONSTRUCTION PROJECT REP

EDUCATION Fairmont State College
Bachelor of Science, Engineering Technology -
Electrical Electronics, 1971

QUALIFICATIONS Jack is actually in transition from his previous employment as an electrical and building inspector to his position as a construction project representative for MEI. He joined MEI with over 20 years experience in the commercial electrical construction field and 10 as an electrical/building inspector. He has, over the last few years, become certified as a Master Code Professional and his list of certifications appears below. Jack's knowledge of building codes is one of the best in the state and he is considered by many "a walking code book".

In addition to his duties as a project rep, Jack performs code research and constructability review of projects. He interfaces with code officials on issues that might arise. Jack teaches classes in codes throughout the year including NEC change review courses at each NEC cycle.

**CERTIFICATIONS/
LICENSES**

Master Code Professional
ICC Commercial Building Inspector
ICC Building Plans Examiner
ICC Commercial Plumbing Inspector
ICC Residential Energy Inspector/Plans Examiner
ICC Accessibility Inspector/Plans Examiner
IAEI Certified Electrical Inspector-Master
Certified WV Home Inspector
Class C Electrical Inspector - WV State Fire Marshal
WV Master Electricians License M04937
NCPCCI (1A) Building 1 and 1 Family Dwelling
NCPCCI (2A) Electrical 1 and 2 Family Dwelling
NCPCCI (4A) Mechanical 1 and 2 Family Dwelling
NCPCCI (5A) Plumbing 1 and 2 Family Dwelling
NCPCCI (2B) Electrical General
NCPCCI (2C) Electrical Plan Review
NCPCCI (4B) Mechanical General
NCPCCI (4C) Mechanical Plan Review



Jack E. Jamison, Jr.

**BS Engineering Technology—Electrical Electronics,
Fairmont State College 1971**

**Construction Project Representative/Electrical Design
Miller Engineering, Inc**

RESPONSIBILITIES INCLUDE:

Facilities evaluation

Design of electrical systems for new construction and renovation projects

Management of project construction including field project observation and
issue resolution

Code research and constructability review of projects, estimating

Licenses and Certifications:

Certified Master Code Professional

IAEI Certified Electrical Inspector—Master

Class C Electrical Inspector—WV State Fire Marshal, WV Master Electrician

ICC Commercial Building/Plumbing Inspector

Certified WV Home Inspector

PROFESSIONAL HISTORY

MEGCO INSPECTIONS, INC.

Keyser and Morgantown, West Virginia

Chief Inspector

May 1999—Present

Duties include:

Inspect and certify commercial and residential electrical services as code
compliant as required by Allegheny Power. Inspect and certify residential
structures for West Virginia housing financing agencies.

JAMISON ELECTRICAL CONSTRUCTION COMPANY

Morgantown, West Virginia

Electrician

December 1972—June 1998

Work included:

Installed, maintained and repaired all types of commercial and light industrial
electrical apparatus including original piping of runs, connections, startups
and maintenance. Primary customers included restaurants, gasoline bulk
plants (hazardous location), communication facilities, water plants,
pumping stations, water slides, public swimming pools, banks, schools and
printing shops. Designed and installed lighting and equipment layouts
including generator-transfer switch combinations and fire alarm systems.



ROB ANGUS
CONSTRUCTION PROJECT REP/ ESTIMATOR

EDUCATION Heating, Cooling, and Refrigeration Certificate
Mon County Tech Ed Ctr - 2000

QUALIFICATIONS Rob came to MEI with 20 years experience, 10 in facilities maintenance and operations working for the Morgantown Board of parks and Recreation first as a maintenance and then as head of maintenance operations. Rob has run his own contracting company for the last ten years doing residential and commercial construction, electrical, plumbing, and HVAC work.

Rob's experience allows him to manage construction and bring an experienced, common sense eye to and issues or concerns that might arise. His background helps him "talk the talk" with contractors and resolve issues quickly. Robs involvement in a project starts early in design with him performing estimating. This allows him the opportunity to "learn the job" prior to its actual start.

**CERTIFICATIONS/
LICENSES** Licensed WV General Contractor
Licensed HVAC Contractor
Certified HVAC Mechanic Contractor
Licensed Journeyman Electrician
Licensed Master Plumber



Shelby McMahon

**Associates Degree, Architectural Engineering
Technology, Penn State Fayette 2008**
**Associates Degree, Building Systems Technology,
Penn State Fayette 2008**

**Mechanical Technician
Miller Engineering, Inc**

RESPONSIBILITIES INCLUDE:

Design of MEP systems for new construction and renovation projects including mechanical modeling and layout, drafting, and scheduling of systems components. Electrical systems and Fire Alarm layout. Plumbing and piping design and layout. Drafting of MEP systems including details and schedules. Construction administration including submittal review, RFI responses, and punchlisting.

STUDENT ACTIVITIES

PENN STATE UNIVERSITY, FAYETTE CAMPUS

Capstone project--2008

Green roofing system for the Fayette Campus engineering building

ASSOCIATION OF HEATING AND AIR CONDITIONING ENGINEERS (ASHRAE)

Member

Michael J. Mills AIA, NCARB

Principal Architect
mmills@millsgroup.biz

ROLE

October 2005 - Present

Mr. Mills leads all facets of the daily operations of the Mills Group. The firm specializes in the restoration of historic buildings and the design of new residences which reflect the rich architectural character of the past and vernacular design with traditional architecture influence. The firm provides consulting services that include design of new structures, downtown revitalization master planning, contextual infill design, existing building assessment, conceptual design for rehabilitation, and building maintenance strategies.



PROFILE

Our Firm

The Mills Group focuses on architecture, planning, and preservation. The firm's broad depth of project experience and intimate knowledge of the political and regulatory process within West Virginia provides insight into the design and construction process. We pride ourselves on being innovative problem solvers providing creative solutions to a variety of project types for a range of clients. The principles of sustainable design and cultural resource management form our center of excellence and inform the approach of every project. Our firm is committed to a quality end product which is derived from experience, diligence, & collaboration.

EXPERIENCE

Architecture:

Residential:

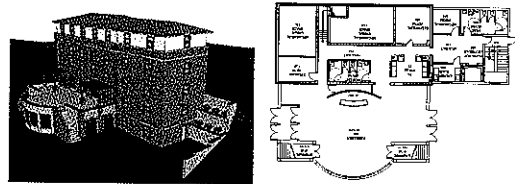
Morris Residence - Grantsville, WV

A residential addition project focused on adding a garage bay, covered porch, and master bedroom suite. The proposed design creates a gracious bedroom, office, bathroom and closet. As well as a great outdoor living space and adequately sized garage/storage space.



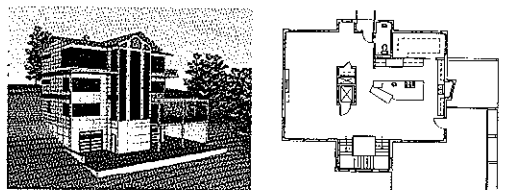
Kappa Sigma House - Morgantown, WV

The client's request included a greater bed count, an addition, greater accessibility and refurbished social areas. The resulting design included a larger building with an extra floor bringing the square footage up to 18,000 square feet. The shared spaces were designed with a sense of identity that bespoke the fraternity's traditions and future.



Fletcher Residence - Morgantown, WV

A new construction residential project that will be set on a ridge that offers amazing vistas of downtown Morgantown and the Monongahela River. The modern house design takes full advantage of the breathtaking views Morgantown has to offer.



Architecture:

Commercial:

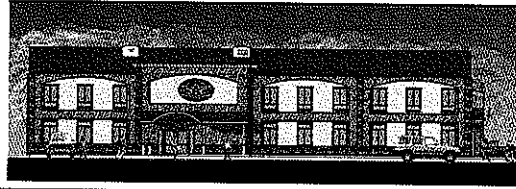
AWW Building - Davis, WV

This building's renovation was designed to be a symbol of the community's rebound that retained some of the best elements of its past. The style chosen is reminiscent of the town's milling, industrial, and architectural heritage. The Building includes three retail spaces and a spa/wellness center that occupies 12,000 square feet. The estimated construction cost is \$750,000.



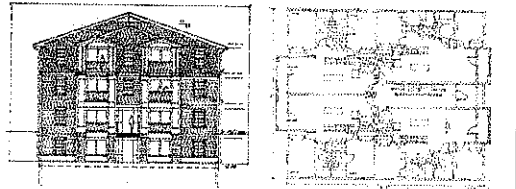
Gymnastics Academy - Morgantown, WV

The Mills Group designed a new structure to house the growing student roster of the CTA High Flyers Dance and Gymnastics Academy. The client wanted a concept design for a 14,000 sq. ft. Gymnastics and Dance academy, that created a strong visual impact to visitors in its regal entrance as they approached the building. The construc-



Burton Housing - Morgantown, WV

A 16 unit student housing project in the SunnySide Up Re-development area. The structure is four levels of wooden framed construction on top of a concrete structure for on site parking to take full advantage of a sloping site. The units are two bedrooms with two bathrooms and spacious living room areas with an average size of 1100 Sq ft. The construction cost is estimate at \$1,000,000.



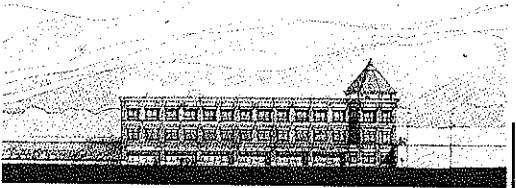
City Pharmacy - Morgantown, WV

A renovation of the historic City Pharmacy building on High Street in downtown Morgantown, WV. The renovation consisted of opening up the interior space to allow enough space for the new tenant, Great Wall Chinese Restaurant, and opening back up the historic store fronts along Pleasant Street.



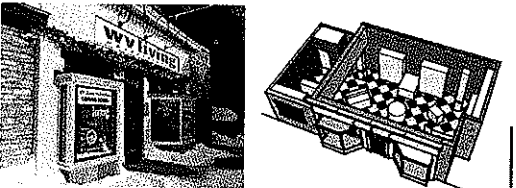
University Avenue Plaza - Morgantown, WV

Conceptual building design of mixed use facility for retail, light commercial, office, and residential uses. This new construction project celebrates rich architectural character and building methods of downtown Morgantown's past. Site planning maximizes road frontage and encourages pedestrian traffic, while still accommodating vehicle traffic demands.



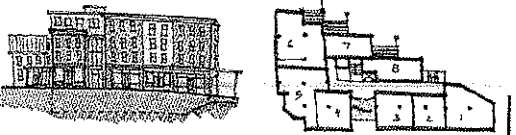
WV Living Marketplace - Snowshoe Mtn., WV

A retail design of 1000 Sq. ft. at a West Virginia mountain village and resort for products that represent the rich culture of the state. The design intent is a retail environment that represents a "marketplace chic decor" and allows the shopper to feel like they are in a home with products that have a special connection to the culture of the state.



188 Spruce Street - Morgantown, WV

Urban infill project serving as transition structure and facility between urban and residential neighborhoods, utilizing proximity to amenities such as services, public transportation, entertainment, and preserved green space. It will provide sub level on-site parking, along with first level retail/office space below multiple levels of residential living.

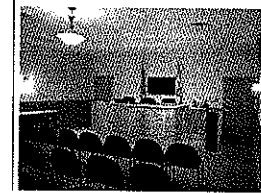
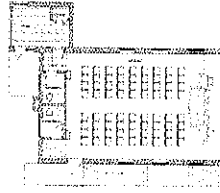


Architecture:

Public:

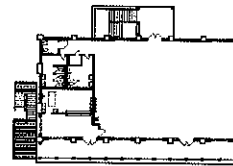
PCC ATM Building - Kingwood, WV

The Preston County Commission contracted the firm to adapt a former Bank/ATM building into a modern meeting and polling facility. The project coupled preservation and sustainable design. The resulting design incorporated indigenous and environmentally friendly elements to create a pleasant atmosphere for multiple venues.



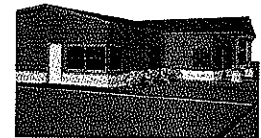
Grand Vue Pool House - Moundsville, WV

The upgrades to a 1970's Marshall County park structure to upgrade finishes, heating and air conditioning systems, code compliance, locker room upgrades, dining room upgrades, and supporting outbuilding design. This work was done in conjunction with a major pool upgrade for a total project cost of \$1,800,0000.



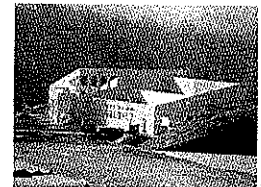
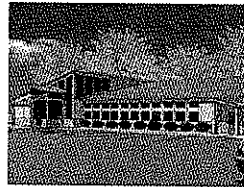
Pioneer Memorial Public Library - Harman, WV

The addition and renovation to an existing public library. The new addition doubles the size of the existing facility and provides for a public meeting room, a circulation desk-area, ADA bathroom, and additional stack areas. The estimated construction cost is \$350,000.



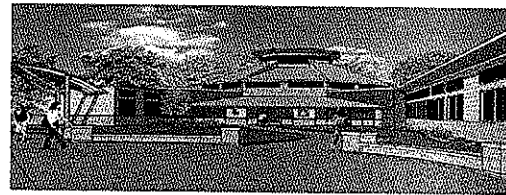
Preston County 911 Center - Kingwood, WV

A 6500 sq. ft. 911 Call Center and Office for Emergency Management in a insulated precast concrete structure housing office space, communication center, training room, and equipment rooms. The building is designed to a LEED Silver standard with careful consideration for siting, material selection, and construction waste management.



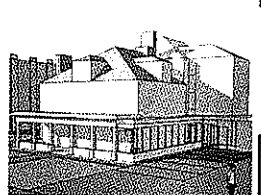
Bartlett House - Morgantown, WV

The building was arranged in a four winged single story plan that directs attention to a central core. This 27,000 sq. ft. arrangement allows for natural daylight and ventilation of all major spaces and focuses on a large central gathering space in a planted atrium. Additionally, the design will allow for future expansion of the facility.



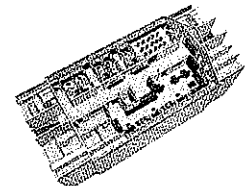
Preston Co. Sheriff's Facility - Kingwood, WV

A masterplan done for grant applications focused on the concept of adaptive reuse. It is phased into six manageable chunks to allow for total rejuvenation of the towns central core. An existing historic sheriffs house and attached jail will be transformed into useable and practical space for their growing staff.



Davis & Elkins College, Albert Hall - Elkins, WV

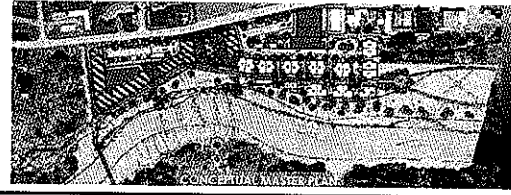
A 6000 sq. ft. conversion of an existing 4th floor attic space into a learning laboratory. The scope of the project requires the installation of an elevator and life safety upgrades to the building as a whole. The estimated construction cost is \$1,500,0000.



• Planning:

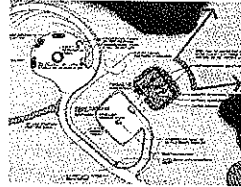
Riverwalk Masterplan - Davis, WV

The master plan for the 12-acre mixed use space was a result of design charrettes and close collaboration with the client. The 40+ residential and retail units (approximately 10,000 square feet) were designed to match the town's traditional aesthetic. Importantly, the plan calls for sustainable green and efficient construction so the development will remain as a physical reminder of that time.



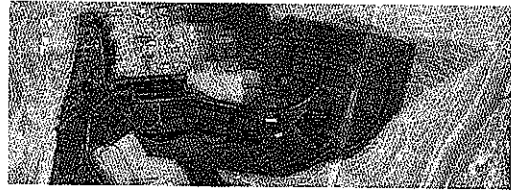
Cannon Hill - Rowlesburg, WV

In conjunction with the Rowlesburg Area Historical Society the Mills Group developed a master plan for managing this cultural resource that included a historical treatment zone and a related historical landscape plan. A second phase of the project was the development of construction document for a picnic shelter and utility shelter.



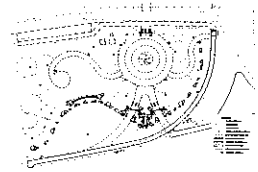
Preston Co. Farm Masterplan - Kingwood, WV

A proposed long term vision of a growth masterplan for Preston County Commission facilities including: 911/OEM Building, 911 Storage Facility and Bunk House, Sheriff Storage Facility, and Burn Building for safe fire training in the near future and many other possibilities in the distant future to effectively allocate space planning



Davis & Elkins College, Entrance - Elkins, WV

In conjunction with Hays Landscape Architectural Studio the firm aid in the conceptual design and construction documentation for a major gateway feature to the college campus. The scope involved the selection of lighting, hardscape materials, and over all design consulting.



• Preservation:

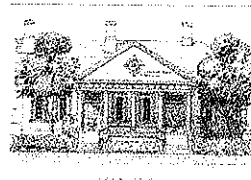
Metropolitan Theatre - Morgantown, WV

The Mills Group acted as associate architects on the step-by-step restoration. The project paired architects with multiple organizations to accomplish an array of tasks. The challenge was coordinating disparate entities to deal with technical, preservation, life safety and code issues in an operational performing arts facilities.



Willey Mansion Report - Morgantown, WV

The Mills Group was contracted by the Morgantown Historic Landmarks Commission to survey the home and compile a feasibility study to determine what steps were necessary to adaptively reuse the building. An intense assessment was performed on the building systems, the conditions of the exterior envelope and interior finishes. The report details upgrades and changes that is necessary for the reuse of the building,



Delmonte Hotel - Elkins, WV

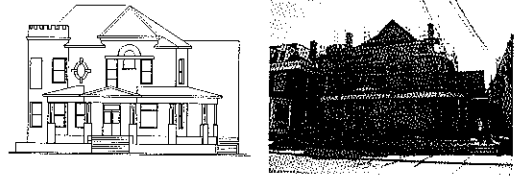
The Mills Group acted as associate architects on the step-by-step restoration. The project paired architects with multiple organizations to accomplish an array of tasks. The challenge was coordinating disparate entities to deal with technical, preservation, life safety and code issues in an operational performing arts facilities.



- Preservation:

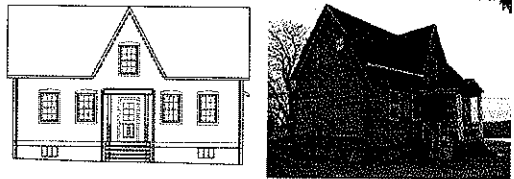
Price House - Kingwood, WV

This project is working to restore a historic house on the edge of downtown. The house will be brought back to it's original character and possibly be used as business/retail space. The adjoining addition will be added onto again and transformed into student housing. A fire egress stair will connect it to the Beauty College.



Toll Gate House - Wellsburg, WV

An exterior restoration and structural stabilization of the Wellsburg Toll Gate House. On the exterior of the house the original wood siding will be cleaned and repaired; the existing front stoop will be removed and replaced with a fine appropriate stoop. Also the roof and windows will be replaced with time appropriate elements.



Kump House - Elkins, WV

The Kump House Trust and City of Elkins hired The Mills Group to execute a historical structures report and conceptual design for the re-use of the 1923 Neo-Classical mansion as a mixed use educational facility. Great emphasis for sustainable practices were considered.



Halliehurst - Elkins, WV

The Mills Group consulted with Davis & Elkins College on a historically based painting scheme for Halliehurst Hall, built in 1890 by Senator Stephen B. Elkins. The building has long been a center of social activity for both the college and the city of Elkins. Halliehurst was completely restored in the 1990s and is now a National Historic Landmark. The offices of the President, Advancement staff, Alumni, Communications, and Admissions are located in this magnificent example of Victorian architecture.



Highland Estate - Clarksburg, WV

A residential restoration project which is focused on the removal of the existing asphalt shingles and replacing them with the original style roofing. The original roof was a terra-cotta barrel tile that was removed at the end of its life. Also the flat roof over the front and back entry will be replaced with a fully adhered membrane system.



Camp Caesar - Cowen, WV

Stabilization of Council Circle, the only covered 4-H Council Circle in the state of West Virginia. Built in 1928 and re-located in 1961, this structure was in need of rehabilitation after heavy snowfall greatly affected the structure in the winter of 2009. Assisted Camp Caesar in a grant application for the funding to properly restore it to it's glory.



WVSHPO 2010, 2009, 2008, 2007 Grant Monitoring - Various locations, WV

In 2006 the Mills Group began assisting the West Virginia State Historic Preservation Office by facilitating a necessary component of contract administration, closely observing and aiding every aspect of the work. Mills first inspects the site, then helps to lay out the scope of work and craft the requests for proposals as well as reviewing the proposals. During the construction phase, architects provide technical assistance and a final inspection. Since 2006, the Mills Group has provided this service at dozens of historic sites in the state of West Virginia.



Einhorn, Yaffee, Prescott Architects - Washington, DC

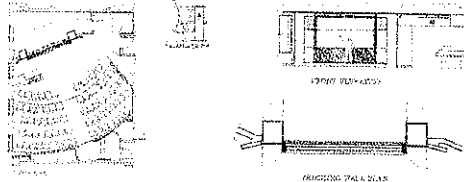
Project Architect/Project Manager

February 1994 - August 1999

- Project architect and manager on historic preservation, architectural design and planning projects. Served as client point person and marketed the firm for future work. Led several condition surveys on historic structures. Wrote several condition assessment reports that led to an exhibit, conference, and publication. Assembled construction documents on several historic preservation projects. Provided technical problem solving to preservation projects. Collaborated with engineers to integrate complete building infrastructure within historic structures.

Walsh 495 Classroom - GU - Washington, DC

Interior fit out of an existing classroom into a distance learning/high tech classroom for the School of Fine Arts, total of 1400 sq. ft. The project involved the integration of AV equipment and wiring to each individual student in a theater seating configuration. The room has dual rear screen projection, complete AMX controls, a surround sound system, and the infrastructure for future distance learning.



Dolly Madison Complex - Washington, DC

Provided exterior renovation services of three historically significant buildings on Lafayette Square opposite the White House. Work included survey and scope verification, preservation and restoration of building materials including brick, stucco, cast iron. Effort also included waterproofing and incorporation of ballistic protection into the historic fabric. This project involved extensive construction site coordination and administration.



White Gravenor Hall - GU - Washington, DC

Provided Georgetown University with architectural services for the renovation of several classrooms on their historic quad. These renovations transformed antiquated classrooms into state of the art, multi-media instructional spaces. The design team worked closely with the clients, within a very short project schedule, to create an interactive and stimulating learning environment.



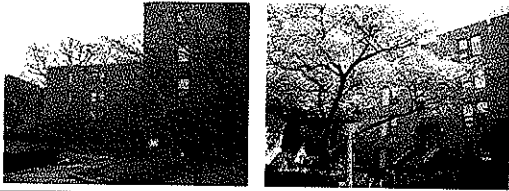
Jones Dining Hall - VSU - Petersburg, VA

The renovation of Jones Dining Hall created a state-of-the-art dining facility for 2000 resident students, and 2600 non-resident students, faculty and staff. This project provided new electrical service; new heating, air conditioning and ventilation systems; new plumbing; and refurbishing of interior finishes for this 26,546 SF facility.



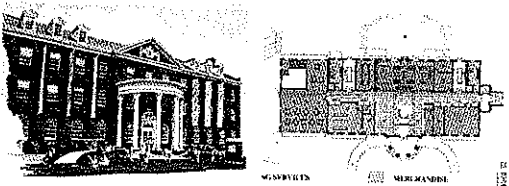
Henle Village - GU - Washington, DC

While at EYP, Mr. Mills was part of the survey team to document the existing conditions and code compliance of these apartment style units for upper classman students at Georgetown University. The followon tasks were the presentation of findings to the owners, the development of conceptual renovation plans and development of construction drawings.



Foster Student Union - VSU - Petersburg, VA

The 44,000 sqft Foster Hall was renovated to provide an environment to facilitate the educational, cultural, social, recreational, and service programs of the University. This project provided new electrical services; heating, air conditioning and ventilation systems; new plumbing; and refurbishing of interior finishes. Deficiencies relative to ADA compliance were addressed, to include vertical transportation requirements.



HNTB Architecture - Washington, DC

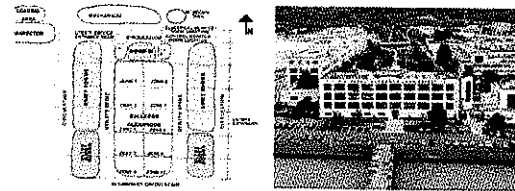
Director of Historic Preservation

August 1999 - April 2002

- Led the preservation and restoration projects while helping to develop a local and national preservation practice. Specifically led a national effort to strategically position the firm to be the recognized preservation firm with respect to historic transportation structures. Developed locally and nationally recognized preservation practice in collaboration with several of the firm's major offices through proactive marketing, networking, and presentations at national events. Directly worked with the Federal Market Leader to promote the firm's national preservation experience. Successfully co-lead the project pursuit for the firm's first GSA Design Excellence Project. Managed several clients and large-scale contracts such as a Smithsonian IDIQ and NAVFAC IDIQ contract. Served as a project manager for the 2010 US Olympic Bid. The task focused on the reuse of existing facilities and leveraging existing resources to enhance the overall master plan.

Nano Science Lab - NRL - Washington, DC

Provided Georgetown University with architectural services for the renovation of several classrooms on their historic quad. These renovations transformed antiquated classrooms into state of the art, multi-media instructional spaces. The design team worked closely with the clients, within a very short project schedule, to create an interactive and stimulating learning environment.



Kentucky State Capitol - Frankfort, KY

The firm provided preservation, planning, programming, and architectural design services for the complete building. This 1909 capitol designed by architect Frank Mills Andrews is considered one of the finest examples of Ecole des Beaux Arts-style architecture in the country.



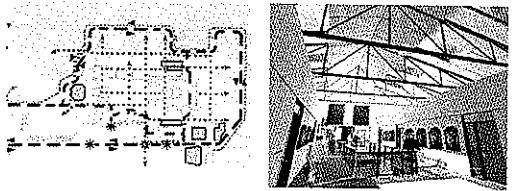
B&O Railroad Hotel & Museum - Gratton, WV

The firm provided preservation planning and design services for the historic B&O Railway Station and adjacent Willard Hotel. The overall project goals were to enhance the cultural sustainability of the town and region while being a corner stone project for the development of a downtown comprehensive revitalization plan. This project involved extensive construction site coordination and administration.



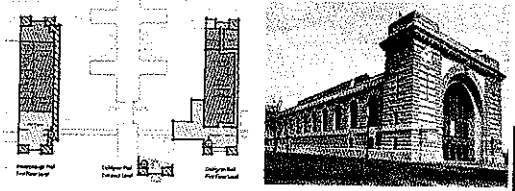
Core Athletic Facilities - Navy - Annapolis, MD

Reviewed and assessed the Naval Academy's sports facilities and sports master plan, and developed a long-term vision that reflected the integrated notion of athletics in a midshipman's academic and military growth. The project included urban and campus design analysis and recommendations. Campus analysis, facilities assessments, and sports program analysis led to recommendations to renovate, adaptively reuse, and build new buildings and structures.



MacDonough Hall - USNA - Annapolis, MD

Worked with the Navy to produce a comprehensive concept study of the existing building and to evaluate the programmatic needs of the proposed user groups. The specific scope of work included exterior historic preservation, window restoration, determination of the cost for replacement with new energy efficient windows, interior finishes evaluation, and general structural overview.



PAST EXPERIENCE

▪ **Vandalia Heritage Foundation - Fairmont, WV**

▪ **Director of Historic Preservation**

May 2002 - August 2005

▪ **Vandalia Redevelopment Corporation - Fairmont, WV**

▪ **Director of Planning and Redevelopment**

May 2002 - August 2005

- Managed all details involving programming, building design, and preservation for a non-profit organization with a mission of economic revitalization through historic preservation. Oversaw architectural planning and construction related to the organization's real estate holdings which included over fifteen historic structures ranging from hotels to houses. Led construction administration on the organization's projects to ensure that builders were in compliance with documentation as well as all local and national codes. Managed preventative and cyclical maintenance from the organization's real estate portfolio. Provided technical architectural and preservation assistance to clients of North Central West Virginia. Facilitated public outreach through lectures, workshops, an in house Preservation Resource Center, and personal one on one guidance by appointment. Initiated and coordinated the 2002 International Preservation Trades Workshops in Fairmont, West Virginia. Ensured compliance with local, state, and federal regulations as well as the Secretary of the Interior's Guidelines. Point person with the State Historical Preservation Office for all projects and programs. Mentored two student interns as well as providing guidance to junior staff members. Developed project scopes of works as well as RFPs and RFQs for both A/E and contractor procurements. Selected, oversaw, and managed A/E consultant teams.

EDUCATION

▪ **Rensselaer Polytechnic Institute - Troy, NY**

▪ **Bachelor of Architecture**

August 1988 - May 1993

▪ **Building Science**

August 1988 - May 1993

Acknowledgments/Honors

- **Recipient of Rensselaer's 2000 Director's Award** - The Director's Award is presented each year to individuals who have made significant contributions to the success of the Office of Alumni Relations and to the Rensselaer Alumni Association during the past year.
- **Recipient of Honorable Mention in the 1992 Progressive Architecture "New Public Realm" Design Competition.**

▪ **Teaching Experience**

Fall 2003; Spring 2006

West Virginia University - "History of American Architecture"

- Instructed graduate students in the Cultural Resource Management Program.

Davis and Elkins College

- Visiting Lecturer for "Designing a Green House"
- Presented lecture titled "Why Build Green?"

▪ **Professional Licensing - Registered Architect**

- The State of Virginia - 2001 - Present
- The State of West Virginia - 2003 - Present

▪ **Professional Affiliation**

- Preservation Alliance West Virginia (Board Member & Executive Committee)
- Institute of Preservation and Contemporary Design (Council of Affiliates Member)
- Pleasant Hills Home Owner's Association Building Commission (Chairman)
- American Institute of Architects
- City of Morgantown Planning and Zoning Design Review Committee
- Main Street Morgantown Design Committee
- Association for Preservation Technology
- National Trust for Historic Preservation
- National Building Museum
- Urban Land Institute

▪ **Publications**

- **Vandalia Heritage Foundation's Preservation Resource Center Publications:**
"*An Introduction to Historic Preservation*", "*Researching your Historic Home*", "*What is Historic Preservation?*", and "*Preservation Bulletin #1: The Rehabilitation Process*"
- "*Convergence: Effective Preservation Through Collaboration/An Interdisciplinary Approach*", Submitted to **APT Bulletin, Spring 2002.**
- "*Commissary Sergeant's Quarters, Building 42*", **Montgomery C. Meigs and the Buildings of the Nation's Capital.** Edited by William C. Dickinson, Dean A. Herrin and Donald A. Kennon, 2001, Ohio Press.

▪ **Speeches/Presentations**

- **2009 Traditional Building Conference**
"Traditional Materials Meet Modern Techniques"
- **2004 West Virginia Preservation Trades Workshop**
"Architectural Styles", presented as part of the opening keynote speech.
- **2004 Preservation Alliance West Virginia Annual Conference**
"Preservation Projects from Start to Finish"
- **2003 West Virginia Preservation Trades Workshop**
"Historic Preservation in Your Backyard"
- **2003 International Preservation Trades Workshop**
"Documenting Conditions"
- **2002 National Trust's Main Street Town Meeting**
"White Elephants on Main Street"
- **2001 National Trust's Main Street Town Meeting**
"Historic Transportation Structures Fostering Community Revitalization"
- **1997 Montgomery C. Meigs Symposium**
"Commissary Sergeant's Quarters, Building 42", presented at the National Building Museum co-sponsored by the U.S. Capitol Historical Society.

PROJECT: MONONGALIA CTY COURTHOUSE HVAC
LOCATION: MORGANTOWN, WV



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget:
\$375K

MEP Budget:
\$375K

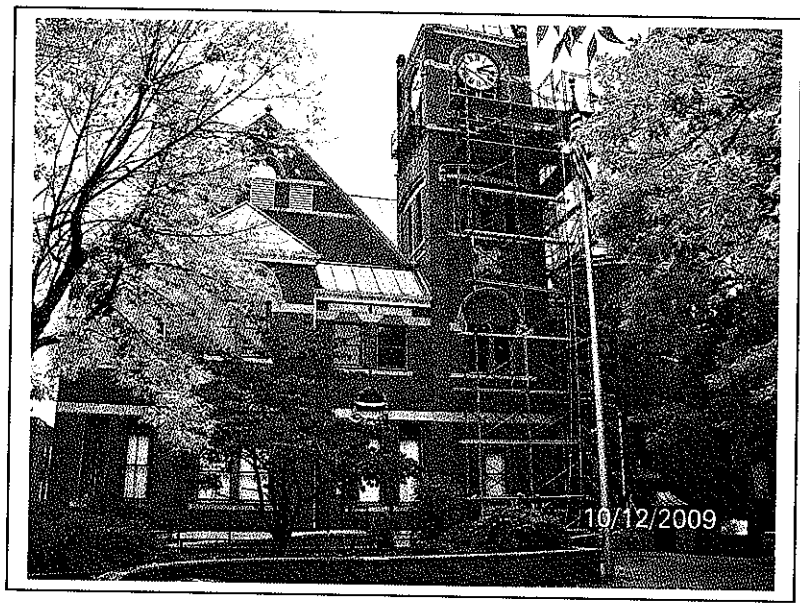
Facility Area:
Approx 7,000 ft²
(in project)

Services Provided:
Heating, Ventilating,
Air Conditioning
Design

Project Status:
Complete

Project Completion
Date:
March 2011

The Monongalia County Courthouse has been obtaining steam for heating most of the oldest areas of the facility from a boiler in the adjacent jail building. The jail is no longer in use and the boiler is highly inefficient due to the small load being placed on the large boiler. A new heating and cooling system is being installed to serve these areas. It will tie into the existing systems and significantly increase user comfort and energy efficiency. Also, certain existing systems are being slightly altered to increase user comfort and energy efficiency. MEI provided energy savings calculations which assisted the County in obtaining an energy efficiency/ environmental impact grant. The project disconnects the courthouse from the jail and provides new, high efficiency boilers for heating.



PROJECT DESCRIPTION:

The original courthouse was altered previously with the last addition and major renovation occurring in 1973. Some HVAC system upgrades occurred in the 1980s but are insufficient in areas where the building use has changed. The shutdown and planned removal of the jail behind the courthouse has impacted the operational cost and will leave part of the facility without heating. The project will address this and other HVAC concerns. The Romanesque Revival courthouse was designed by Pittsburgh-architect James Bailey and features a statue from the original 1848 Courthouse of Old Dominion statesman Patrick Henry. The Courthouse Complex houses county most major government functions, including the commission, assessor, sheriff and clerks offices.

REFERENCE:
Bobby Doyle
Monongalia County Courthouse
High Street
Morgantown, West Virginia 26505 304-288-0378

PROJECT: CHEAT LAKE EL- MIDDLE RENOVATION

OWNER: Monongalia County Board of Education, Morgantown, WV



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget:
\$5.5M

MEP Budget:
Estimated \$1.6M

Facility Area:
17,500 ft²

Services Provided:
Facility and Site:
Mechanical, Electrical,
Plumbing, Fire
Protection, Fire Alarm,
Public Address & Clock
Systems,

Project Status:
Complete

Project Completion
Date:
March 2011

The facility has several technical challenges; the 1950's original "core" of the middle school had seen little renovation since its construction. As a result, the classrooms lacked good ventilation, sufficient electrical and data systems capacity, and were not sprinkled. While fire alarm systems were added to each building during an addition, the systems were not of sufficient capacity to support the changes and were replaced with a new, addressable system. The original steam heating system was still in place in part of the middle school and was replaced. Bathrooms were updated and the gym/multipurpose was being air conditioned under the project. Clock, public address, and intercom systems were upgraded to serve both the elementary and middle as one system.



PROJECT DESCRIPTION:

The existing Cheat Lake Elementary and Middle School are two connected facilities that are being renovated as a result of changes within the county school system. The middle school is being relocated to a newly renovated facility and the existing middle school will serve as an expansion of the elementary school. Additionally, certain areas within the elementary school are being renovated to serve pre-K students. The project includes a new "bridge" connector between the facilities and a revised traffic/ parking flow plan.

REFERENCE:

Mr. Ed McCabe - Clerk of the Works
Monongalia County Schools
210 High Street
Morgantown, WV 26505
304-276-0669

PROJECT: MAPLETOWN HIGH HVAC RENOVATION
OWNER: Southeastern Green School District, Greensboro, PA



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget:
Est. \$950k

MEP Budget:
\$950k

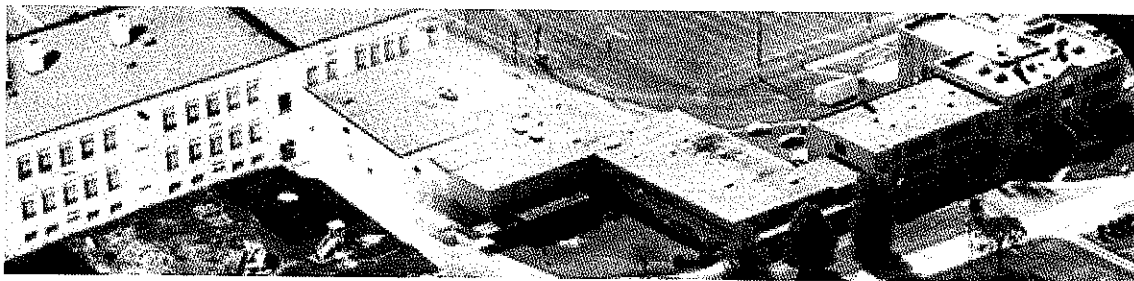
Facility Area:
18,500 ft²

Services Provided:
Mechanical, HVAC

Project Status:
Bidding

Project Completion Date:
Est. Aug 2012

The facility was constructed at three different times and has a variety of mechanical and HVAC systems. The existing boilers systems are old, unreliable and inefficient. The air systems serving the gym require attention and likely replacement. The steam system piping has reached it's age limit. Evaluation included determining the best systems to apply to the facility that balance cost, reliability, and long term energy use. The evaluation included detailed computer modeling of the building and its system to assist in the evaluation. Budget estimates have been prepared for several options and the project is awaiting funding by the School District.



PROJECT DESCRIPTION:

Miller Engineering has been retained by the Southeastern School District to evaluate the existing system at Mapletown Middle/High School and prepare a report and budget for an equipment replacement and systems renovation. While early in the process, Miller Engineering has completed the initial facility review and the evaluation report and budget.

Patrick R. Sweeney - Business Manager
Southeastern Greene School District
1000 Mapletown Road
Greensboro, PA 15338
(T) 724-943-3630 ext 350

**PROJECT: BLACKWATER FALLS STATE PARK
LODGE DINING ROOM AC**
LOCATION: DAVIS, WV



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget:
\$185K

MEP Budget:
\$185K

Facility Area:
Approx 3,000 ft²

Services Provided:
Mechanical

Project Status:
Complete

**Project Completion
Date:**
Oct 2010

Miller designed a replacement air system which includes air conditioning. This was achieved by installing an air handling unit on the exterior and ducting it into the facility. To prevent the new equipment from becoming an eyesore and interfering with the views from the lodge, some of it is mounted remotely in a loading dock area. The equipment also serves as the makeup air to the kitchen. A reheat configuration was incorporated into the design to give better humidity control.



PROJECT DESCRIPTION:

The Lodge Dining Room was originally constructed with a heating only air system. As the facility has increased in popularity and the dining room begins to fill with visitors, the temperature and humidity levels became uncomfortable and air conditioning was needed. The Park Lodge is located proximate to the Blackwater Falls, a natural wonder. MEI performed a detailed survey of the system and made recommendations to the Owner; which are now being implemented in a construction project.

REFERENCE:

Brad Leslie PE, Assistant Chief
WV DNR, Parks and Recreation Section
324 Fourth Ave, Room 203
South Charleston, WV 25303
304-558-2764

PROJECT: MAIN TERMINAL RENOV. PH. I &2
OWNER: Morgantown Municipal Airport, Morgantown, WV



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget:

PH 1 \$400k

PH2 \$850k

MEP Budget:

Ph1 \$85k

Ph2 \$185k

Facility Area:

Approx 12,000 ft²

Services Provided:

*Mechanical, Electrical,
Plumbing, Fire
Protection, Fire Alarm*

Project Status:

Ph 1 Complete

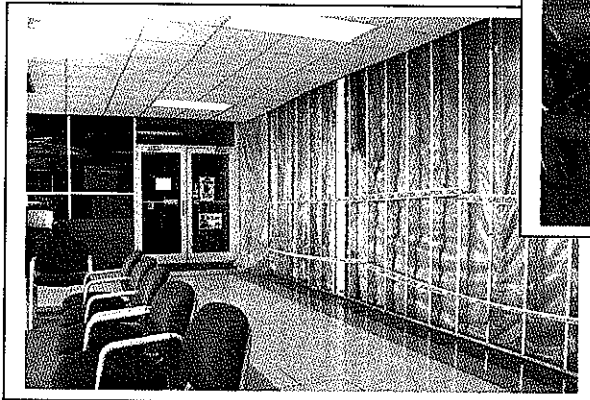
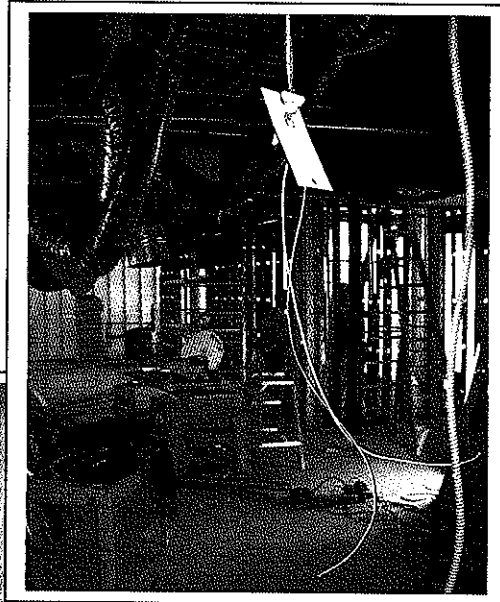
Ph2 Construction

Project Completion

Date:

Mar 2011

The projects require the maximum re-use of existing HVAC equipment including a renovation and re-configuration of the existing VAV system to serve newly subdivided areas. The existing fire alarm system was evaluated and found to be insufficient; requiring a full replacement. The replacement had to be phased due to funding issues and this required close coordination with the Fire Marshal. Office areas and the fixed based operator (FBO) offices were moved and enlarged, with modifications to HVAC systems serving those areas. The electrical work includes new electrical distribution in the project area to serve the needs of both Airport and the FBO. Electrical deficiencies relating to the original construction were identified and are being corrected.



PROJECT DESCRIPTION:

The Terminal Renovation was initiated to create an improved, more functional space for the terminal offices and the fixed base operator. New rental space was created along with increasing the size and efficiency of the terminal office spaces. The project is split funded over two years requiring the project to be phased, increasing project document detail and coordination.

REFERENCE:

Mr. Glenn Kelly - Airport Director
Morgantown Municipal Airport
100 Hart Field Rd.
Morgantown, WV 26505
304-291-7461

PROJECT: MET THEATER AIR CONDITIONING
LOCATION: MORGANTOWN, WV



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget:
\$325K

MEP Budget:
\$325K

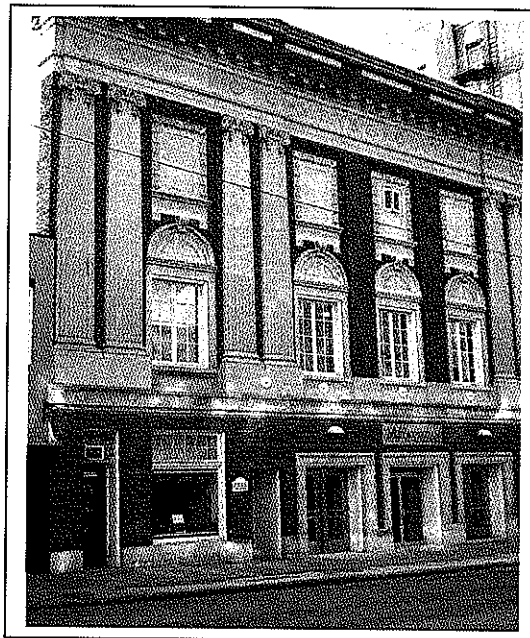
Facility Area:
15,400 ft²

Services Provided:
Mechanical,
Electrical, Plumbing

Project Status:
Completed

Project Completion
Date:
May 2006

The Metropolitan (Met) Theater had an HVAC system upgrade several years ago during which the contractor worked until the budget was expended and then stopped. No project record drawings were created. MEI performed detailed field investigations to determine and document the extent of the previous installation. Project drawings were then created to complete the installation of air system components, add a new air-cooled chiller, and retrofit the existing air systems to provide air conditioning while protecting the historic nature of the Theater.



PROJECT DESCRIPTION:

The Met Theater is a historical structure which is currently being brought to life by the City of Morgantown and a concerned group of citizens. Air conditioning is required to use the facility year-around and protect its unique plaster work. The historical nature of the structure requires innovative solutions to complete the previous installation. New, independent, HVAC calculations and computer modeling of the building systems were done to verify the original installation and implement the necessary changes to meet current codes and standards. The scope includes completion of the air distribution system, retrofit of air handling systems with cooling coils, completion of hot water reheat systems, and completely new control systems for the theater utilizing CO₂ demand based ventilation and multiple operational modes for increased energy savings.

REFERENCE:

Mark Wise, BOPARC of Morgantown
Marilla Center
Morgantown, West Virginia 26505 304-296-8356

PROJECT: GREER BUILDING HVAC RENOVATION

OWNER: *The Dominion Post and Greer Industries, Morgantown, WV*



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget:
\$1.8M

MEP Budget:
\$1.8M

Facility Area:
18,000 ft²

Services Provided:
*Mechanical,
Electrical*

Project Status:
Complete

Project Completion
Date:
Sept 2010

The original HVAC systems served the facility well for many years but have fallen into a state of extreme disrepair. Also, approximately 10 years ago, a contractor made changes which interconnected the air system between the two levels of the building. This interconnection has caused significant temperature control problems. Changes in space utilization have further complicated the issue through the years.

The Owner decided to reconfigure the entire floor plan over the next three years; with significant HVAC changes required. The ensuing HVAC renovation was designed and implemented as a phased approach, as the Owner will maintain occupancy during construction. The system must serve the facility in its current floor plan and then adapt as the floor plan changes take effect. Miller designed the system to work with the existing floor plan, and adapt to the future plan. A concurrent electrical upgrade has completed construction.



PROJECT DESCRIPTION:

The Greer Building is the home of the Dominion Post newspaper and several local radio stations. Constructed in 1967, it incorporated state-of-the-art multi-zone HVAC systems. The systems have served the facility well, lasting twice their expected life. The main air handling systems, piping, and ductwork are being replaced and reconfigured as a matter of necessity and to better serve the floor plan changes made to the facility.

REFERENCE:

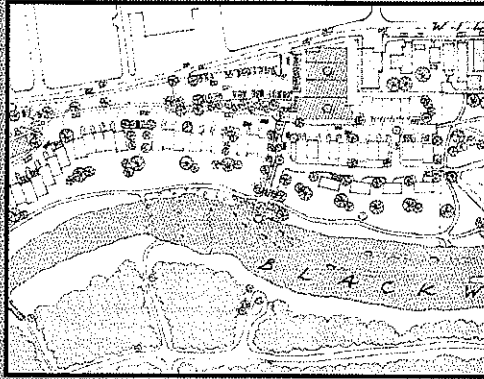
Terry Rankin – Dir of Maintenance
1201 Hal Greer Blvd.
Morgantown, WV 26508
304-291-9425 or 304-376-2642

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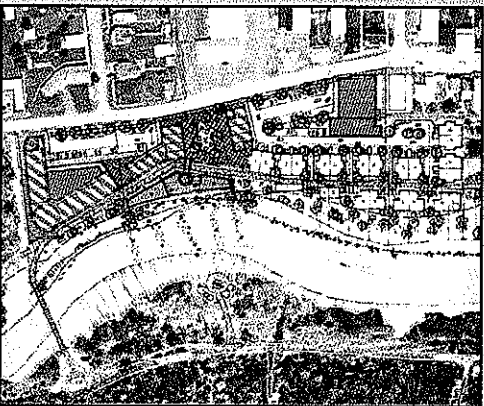
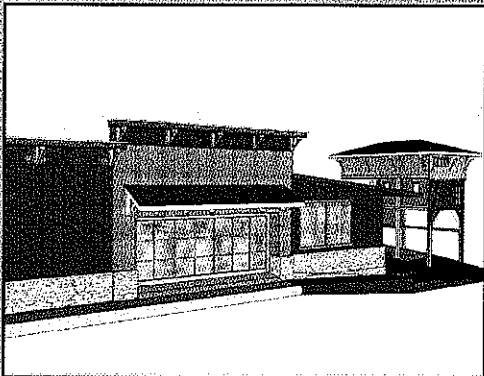
Riverwalk Masterplan

Davis, WV

RESIDENTIAL • COMMERCIAL • PUBLIC

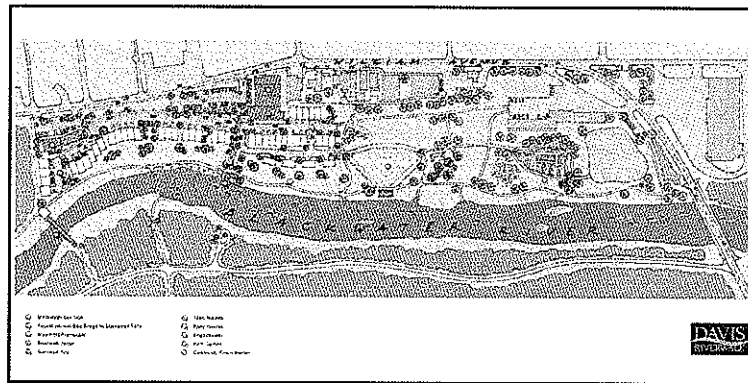


Client: **Boomtown Design, LLC**
Service: **Site Masterplan**



The Mills Group partnered with Storrs Design Group to create a workable plan for a development that could potentially revitalize a mountain town. The master plan for the 12-acre mixed use space was a result of design charrettes and close collaboration with the client. The 40+ residential and retail units (approximately 10,000 square feet) were designed to match the town's traditional aesthetic. The development will appeal to memories of West Virginia's early twentieth century rail and lumber boom. Importantly, the plan calls for sustainable green and efficient construction so the development will remain as a physical reminder of that time.

The project site's close proximity to Canaan Valley is expected to be a benefit that will spur the development along and increase the economic benefits for the area. The riverfront site will ultimately be linked to an additional redevelopment of the lacking housing stock. The client has been working with architects to create contextual infill.



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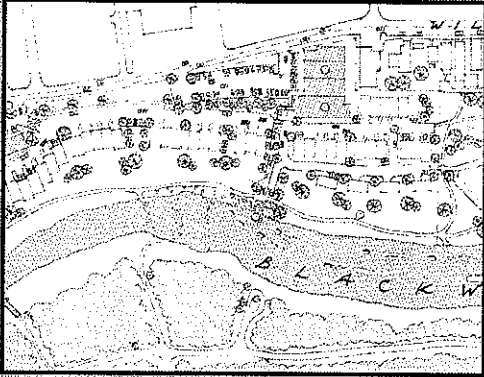
"Designing on the principles of the past and preserving for the future."

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PLANNING
PRESERVATION

Riverwalk Masterplan

Davis, WV

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Project Categories:

Name of Project Owner:

Boomtown Design, LLC
8032 Cindy Lane
Bethesda, MD 20817
301-602-1210

**Name of Owners Project
Manager:**

Peter Johnson
8032 Cindy Lane
Bethesda, MD 20817
301-602-1210

**Name of Prime General
Contractor:**

Yet to be determined

Contract Information:

Cost: \$6,000,000
(estimated)

Project Success Story:

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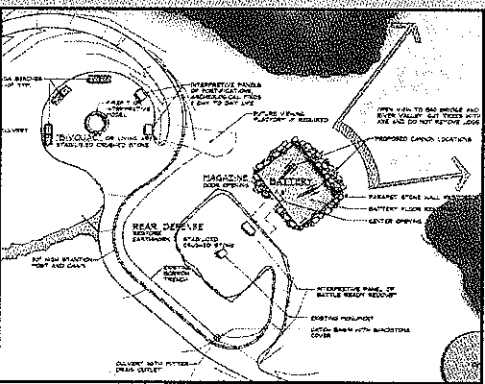
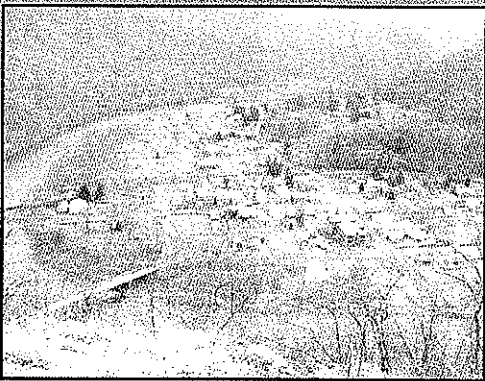
Cannon Hill Historic Site

Rowlesburg, WV

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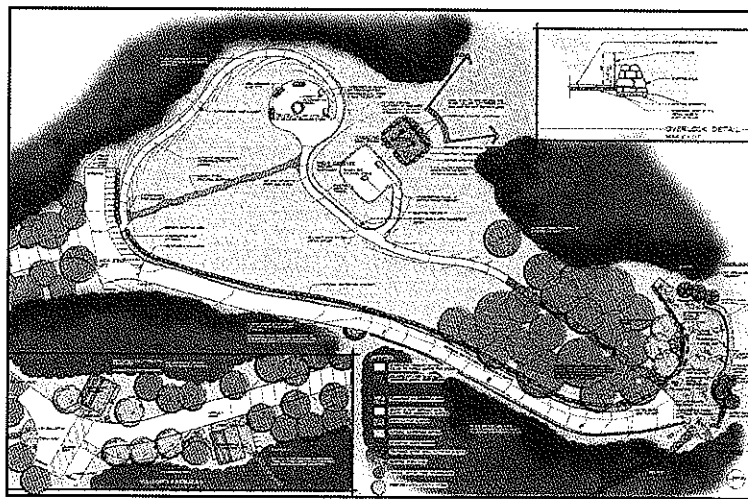


Client: **Rowlesburg Area
 Historical Society**
 Service: **Cultural Resource
 Masterplan Development**



In conjunction with the Rowlesburg Area Historical Society the Mills Group developed a master plan for managing this cultural resource that included a historical treatment zone and a related historical landscape plan. Cannon Hill was vital to the Northern war effort because of the B&O Railroad's Cheat River Bridge and the Tray Run Viaduct. Similarly, its continued preservation has been a priority for West Virginia's cultural heritage.

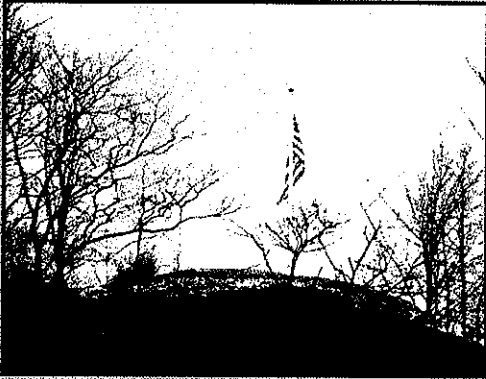
Assessing the existing site conditions and conducting historical research, both of Cannon Hill's significant characters and the precedents at other battle sites, was the first step. The studies highlighted priorities for the park's future. With these priorities in hand, recommendations including interpretational sites, preservation of the existing battlements, and revitalization of scenic overlooks were forwarded to the Historical Society.



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Project Categories:

Type

Name of Project Owner:

Name
Address
Address
Phone#

**Name of Owners Project
Manager:**

Name
Address
Address
Phone#

**Name of Prime General
Contractor:**

Name
Address
Address
Phone #

Contract Information:

Type

Cost:

Type

Project Success Story:

Type
Type

SUSTAINABLE DESIGN

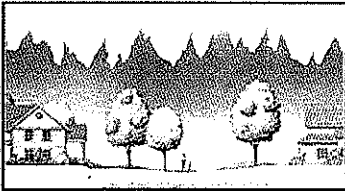
Designing with a Conscience

An Approach to Sustainability

SOCIAL RESPONSIBILITY

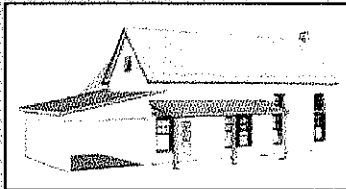
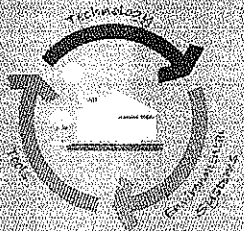


Willey House Rehabilitation



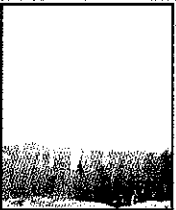
Habitat for Humanity Master Planning

ENVIRONMENTAL RESPONSIBILITY



Wentzel House Strawbale Proposal

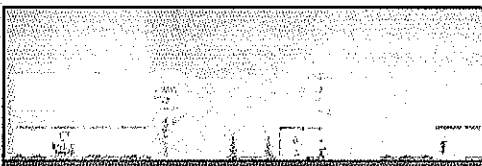
ECONOMIC RESPONSIBILITY



WV Energy



Local Materials



WV Workforce Housing

- Developing an understanding of the historical and cultural significance and context of each individual project.
- Utilizing "tangible history" to stress the importance of cultural heritage in all we say, do, think, and build.
- Utilizing appropriate technologies to maximize building performance and minimize environmental impact.
- Meshing environmental systems with the built environment to enhance the symbiotic relationship between building and nature.
- Developing design tools that utilize technology and environmental systems to create uniquely appropriate design solutions.
- Developing a model of architecture that helps to strengthen the economy of the area in which it exists.
- Utilizing construction materials that are harvested and manufactured from local sources.
- Pursuing projects that serve to bolster a healthy diverse economy.

Examples on Left:

Willey House Rehabilitation: Developed a re-use plan to educate the community about its Historic and Social significance in the Morgantown, WV area.

Wentzel House: Utilizing alternative construction techniques and renewable resources to create a sustainable residence.

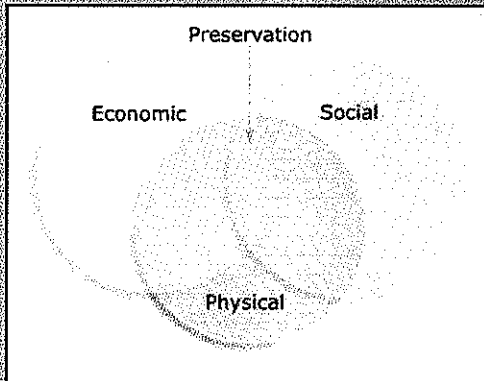
WV Workforce Housing: Creating adaptable homeownership opportunities for working class communities.

CULTURAL RESOURCE

Beyond the Paradigm

An Approach to Historic Preservation

PHILOSOPHY



Keeping Cultural Resources at the Forefront

To fully understand our built environment, we must first have the ability to comprehend why it is the way it is, taking it beyond bricks and mortar, into a moment in time, a representation of not only our collective past, but our individual pasts. The key to thorough preservation is investigating our cultural heritage, through which a balanced understanding can be achieved.

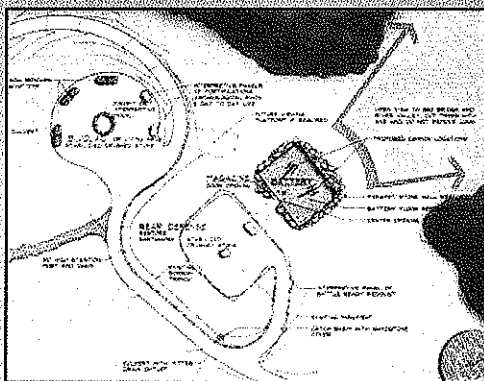
CONTEXTUAL



Social-Economic-Physical Making Change

To achieve meaningful and positive preservation, exploring our past is necessary. Interpretation of the built environment requires awareness of how the many aspects of our cultural heritage come together to create a story. Cultural Resources, those things that spiritually and physically are remnants of our past, shaping us into who we are, ultimately affect the way we make change. Most of all, however, it allows us to see how and why to make that change.

DUE DILIGENCE



Sustainable Neighborhoods

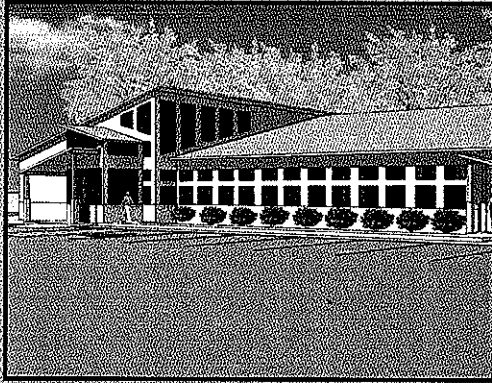
Historic Preservation, by its very nature, is a sustainable act. It takes what we have and makes it useful again. It revitalizes communities by sustaining the local economy through supporting core, local businesses and attracting new ones.

Remnants of our Cultural Past

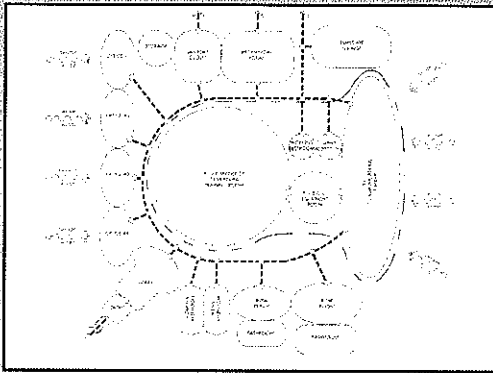
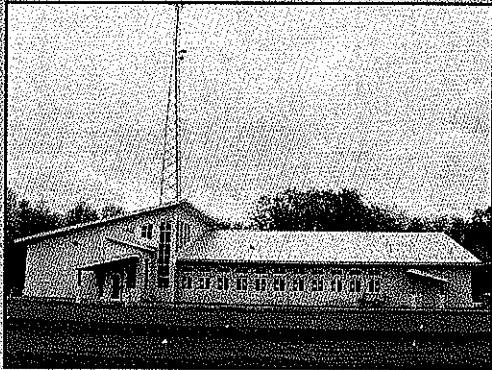
Cultural Resources, such as buildings and cultural landscapes, are tangible history. In the interpretation and preservation of these artifacts balance is achieved through not only the social and economic aspects, but the physical as well. Increased quality of life through a positive economic marketplace, creating awareness or providing a positive atmosphere where we can live, work and play, is our goal in any project.

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Client: **Preston County
Commission & 911/OEM**
Service: **New Building Design &
Construction Admin.**



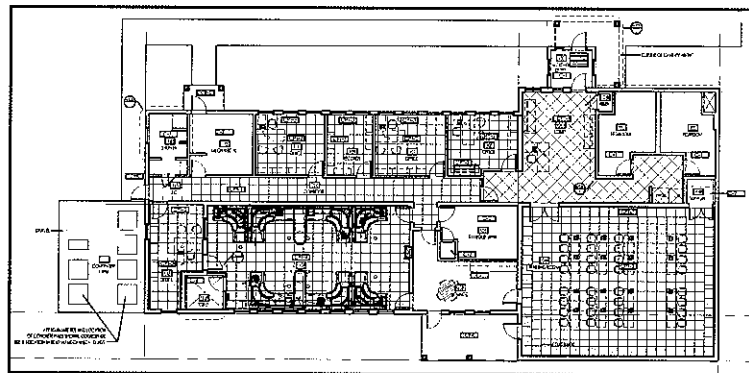
Preston County E-911-OEM Center

Kingwood, WV

Mills Group designed the new Preston County 911/ Office of Emergency Management Center to be a secure location to provide county residents with consistent and exemplary service and response.

Planned with an eye towards both security and environmentally sound construction, the resulting structure balances tested methods with an interesting and aesthetically pleasing design. The 6,200 square foot, single story structure will make abundant use of precast concrete sandwich panels. Such implementation will provide savings to the client in the form of reduced construction costs and energy bills. Designs call for a mix of fixed and operable windows that will benefit occupants with natural ventilation and sufficient day lighting to all parts of the facility. State of the art technologies will finish the building's interior with a professional look that also avoids 'sick' building syndrome due to conscious interior décor selections combined with natural light and ventilation.

This is the first project slated for completion on the Preston County Farm redevelopment. It will act as an example of design and as a catalyst for further development of Preston County. Additionally, this is the first new building that the county has constructed since the courthouse in 1934.



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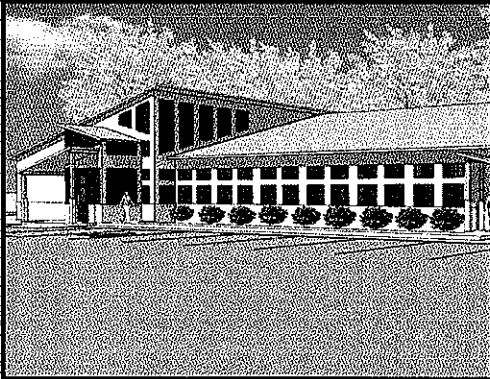
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PLANNING
PRESERVATION

Preston County 911 Center

Kingwood, WV

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Project Categories:

New Construction, Designed to meet
LEED Silver Certification

Name of Project Owner:

Preston County Commission
106 W. Main Street
Kingwood, WV 26537
304-329-1805

**Name of Owners Project
Manager:**

Duane Hamilton
103 1/2 W. Main Street
Kingwood, WV 26537
304-329-2398

**Name of Prime General
Contractor:**

City Construction Company, Inc.
Route 2, Box 285
Clarksburg, WV 26301
304-623-2573

Contract Information:

The project is currently under construc-
tion as of April 2010

Cost:

\$2,200,000

Project Success Story:

Being greenfield development, the building is designed to meet LEED Silver standards, with careful consideration for siting, material selection, and construction waste management. Pre-cast concrete panels allow for expedient construction that will provide a new accommodation building for Preston County 911/OEM.

SPECTRUM POLICY DECLARATIONS (Continued)

POLICY NUMBER: 40 SBA IR8720

BUSINESS LIABILITY	LIMITS OF INSURANCE
LIABILITY AND MEDICAL EXPENSES	\$1,000,000 ✓
MEDICAL EXPENSES - ANY ONE PERSON	\$ 10,000
PERSONAL AND ADVERTISING INJURY	\$1,000,000
DAMAGES TO PREMISES RENTED TO YOU ANY ONE PREMISES	\$1,000,000
AGGREGATE LIMITS	
PRODUCTS-COMPLETED OPERATIONS	\$2,000,000
GENERAL AGGREGATE	\$2,000,000 ✓
EMPLOYMENT PRACTICES LIABILITY COVERAGE: FORM SS 09 01	
EACH CLAIM LIMIT	\$ 500,000
DEDUCTIBLE - EACH CLAIM LIMIT \$5,000	
AGGREGATE LIMIT	\$ 500,000
RETROACTIVE DATE: 04232010	

This Employment Practices Liability Coverage contains claims made coverage. Except as may be otherwise provided herein, specified coverages of this insurance are limited generally to liability for injuries for which claims are first made against the insured while the insurance is in force. Please read and review the insurance carefully and discuss the coverage with your Hartford Agent or Broker.

The Limits of Insurance stated in this Declarations will be reduced, and may be completely exhausted, by the payment of "defense expense" and, in such event, The Company will not be obligated to pay any further "defense expense" or sums which the insured is or may become legally obligated to pay as "damages".

BUSINESS LIABILITY OPTIONAL
COVERAGES

EMPLOYEE BENEFITS LIABILITY COVERAGE: FORM SS 40 50	
EACH CLAIM	\$1,000,000
AGGREGATE	\$2,000,000

AUTOMOBILE SUMMARY

POLICY INFORMATION

NAMED INSURED: MILLER ENGINEERING, INC.
 PRODUCER CODE AND NAME: 521962 HENDERSON BROTHERS INC/PHS
 COMPANY CODE AND NAME: A SENTINEL INSURANCE COMPANY, LIMITED
 EFFECTIVE DATE: 07/08/10 EXPIRATION DATE: 07/08/11
 EXAMINATION PERIOD:

POLICY COVERAGES RECAP

COVERAGE	COVERED AUTOS	LIMITS	PREMIUM
LIABILITY	1	\$ 1,000,000 PER ACC ✓	\$ 1,598.00
NO FAULT	5	PIP	\$ 30.00
	5	ADDED PIP	
UM	2	\$ 350,000 PER ACC	\$ 88.00
UDM	2	\$ 350,000 PER ACC	\$ 151.00
OTC	7		\$ 271.00
COLLISION	7		\$ 858.00
TOWING	7		\$ 24.00
TOTAL PREMIUM			\$ 3,020.00

CAFS REPORTED: PA

*1100240KT62930101 02492



POLICY # 40UECKT6293 DW CONTROL # 001 TERM ID U0BEWL0B
 PROCESS DATE 07/01/10 OPER INITIALS JTG AAR PREV POL # NEW



ARCHITECTS/ENGINEERS
SMALL FIRM PROGRAM

POLICY
DECLARATIONS

AGENCY BRANCH	PREFIX	POLICY NUMBER	INSURANCE IS PROVIDED BY
056124 969	SFH	25-408-45-18	CONTINENTAL CASUALTY COMPANY 333 S WABASH AVE, CHICAGO, IL 60604, A STOCK INSURANCE COMPANY, HEREIN CALLED WE, US, OR OUR.

NOTICE

THIS IS A CLAIMS-MADE POLICY. PLEASE READ THIS POLICY CAREFULLY AND DISCUSS THE COVERAGE WITH YOUR INSURANCE AGENT OR BROKER.

1. NAMED INSURED:

MILLER ENGINEERING, INC.

2. ADDRESS:

P.O. Box 42
Garards Fort, Pennsylvania 15334

3. POLICY TERM: From: 11/01/2009 To: 11/01/2011 AT 12:01 a.m.
Standard time at your address shown above.

4. KNOWLEDGE DATE: 11/01/03

5. DEDUCTIBLE:

- a. \$ 1,000 Purchased Deductible
- b. \$ N/A Deductible Credit
- c. \$ 1,000 is Deductible per claim (including claim expenses)
- d. \$ N/A is Aggregate Deductible per policy year (including claim expenses)

6. LIMIT OF LIABILITY:

- a. \$ 1,000,000 Per claim limit of liability (including claim expenses)
- b. \$ 2,000,000 Aggregate limit of liability per policy year (including claim expenses)

James T. Wilkins
Authorized Representative

Countersignature (if required)

BROKER