

**West Virginia Division of
Natural Resources
Claudia L. Workman Fish &
Wildlife Education Center**

Architectural & Engineering Services

June 2, 2016

EXPRESSION OF INTEREST



06/02/16 09:38:32
WV Purchasing Division





Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Expression of Interest
 02 - Architect/Engr

Proc Folder: 202118

Doc Description: Addendum No.01; Workman Fish & Wildlife Education Center

Proc Type: Central Contract - Fixed Amt

Date issued	Solicitation Closes	Solicitation No	Version
2016-05-24	2016-06-02 13:30:00	CEOI 0310 DNR1600000018	2

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

FOR INFORMATION CONTACT THE BUYER

Juy Nisbet
 304) 558-2596
 juy.f.nisbet@wv.gov

Signature X

FEIN #

DATE

It offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Addendum

Addendum No.01; issued to publish and distribute the attached information to the Vendor community.

Expression of Interest

The West Virginia Purchasing Division for the Agency, The West Virginia Division of Natural Resources (WVDNR), is soliciting responses from qualified firms to provide necessary engineering, architectural and other related professional services to design and provide construction contract administration services to construct an approximate 7,000 square foot education/visitors center in Alum Creek, WV., focused on the preservation and management of West Virginia fish, wildlife and other natural resources and other natural resources and natural history. per the attached specifications, and terms & conditions.

INVOICE TO		SHIP TO	
DIVISION OF NATURAL RESOURCES FORKS OF COAL NATURAL AREA 50 ROCKY BRANCH RD ALUM CREEK WV25003-9712 US		DIVISION OF NATURAL RESOURCES FORKS OF COAL NATURAL AREA 50 ROCKY BRANCH RD ALUM CREEK WV 25003-9712 US	

Line	Comm Ln Desc	Qty	Unit Issue
1	Architectural engineering	0.00000	

Comm Code	Manufacturer	Specification	Model #
31101508			

Extended Description :

To provide necessary engineering, architectural and other related professional services to design and furnish as well as provide construction contract administration services to construct an approximate 7,000 square foot education/visitors center focused on the preservation and management of WV's fish, wildlife and other natural resources and natural history.

SOLICITATION NUMBER: CEOI 0310 DNR1600000018
Addendum Number: No.01

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

Description of Modification to Solicitation:

Addendum issued to publish and distribute the attached documentation to the vendor community.

No other Changes.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ATTACHMENT A

CEOI DNR16*18
A&E SVC's for Claudia L. Workman Fish and Wildlife Education Center
Vendor Questions and Agency Response
05/20/2016

Q.1 We are interested in sending a bid in for the West Virginia Fish and Wildlife Education Building design/engineering work. (Solicitation No CEOI 0310 DNR160000018) We are not an architectural firm, but Civil Engineering is a service that we offer here at Blue Mountain, Inc. We do have on staff a Civil Engineer with Architectural background and experience. A commercial building that will be under 7,500 square foot, within the state of West Virginia, does not need to have an Architect's seal. Is this something that you require or will a Civil Engineer seal accommodate what you need?

A.1. The owner believes that despite the size limit contained in the question, professional expertise should be demonstrated as requested in accordance with Section Three, 2.1d of the EOI.

Q.2 Of the 7,000 sf education/visitors center, what portion of the space should be dedicated to the education center, the exhibitions, and programming spaces?

A.2 Approximately 3000 sqft of programing space is planned at this time. However, the program of the project will be developed further with the chosen firm.

Q.3 Do you envision any outdoor exhibits, signage, or interpretation as a part of the scope?

A.3 The development of the property; through construction of trails, signage, interpretation and other elements, is included in this project.

Q.4 Will the Workman family be providing all of the exhibit content?

A.4 No.

Q.5 How immersive do you envision the exhibits being (i.e.. highly interactive or specimen and object-driven storylines)?

A.5 The scope of the project will be developed fully with the chosen firm. However, it is anticipated that exhibits included will be interactive as well as static.

Q.6 Is there an existing specimen/object/artifact list?

A.6 No.

Q.7 Will taxidermy be included in the scope of work?

A.7 It is the owners intention to include the exhibits in the design of the project. Any taxidermy specimens that may or may not be desired would be specified in the project.

Q.8 Will videography/video production services be included in the scope of work? (ie. an intro video)

A.8 The scope of the project will be developed fully with the chosen firm.

Q.9 Is the client able to provide budgetary information?

A.9 We are prohibited from the disclosure of Agency Budget.

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: _____

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

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

Addendum Numbers Received:

(Check the box next to each addendum 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 |

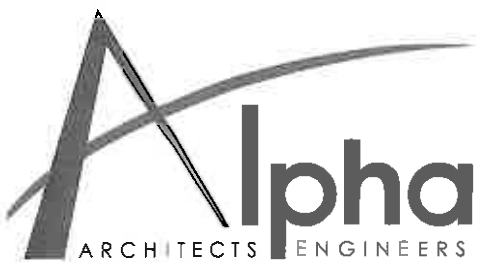
I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information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

Alpha Associates, Inc.
Company

[Signature]
Authorized Signature

6/1/16
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012



June 2, 2016

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

**Re: Statement of Qualifications CEOI DNR160000018
A/E for Claudia L. Workman Fish & Wildlife Education Center**

Dear Selection Committee,

Alpha Associates, Incorporated is please to submit this expression of interest for architectural and engineering services to the West Virginia Division of Natural Resources for the Claudia L. Workman Fish & Wildlife Education Center. The Alpha Team's experience and appreciation of the area make us the perfect design partner on this exciting new project.

Throughout our 47 years, Alpha has provided architectural and engineering services in the entire State of West Virginia, including several projects for the WV DNR, including our current projects at Tygart Lake State Park, Watters Smith State Park, and Coopers Rock State Park. In the section of this Statement of Qualifications labeled "Related Experience" you will find our related experience that gives us the expertise to successfully see this project through from the design process to completion.

Project Understanding

The Division of Natural Resources plans to partner with an architectural and engineering firm to provide necessary professional services for the design and furnish of a wildlife and natural resources education center to be located in Alum Creek, West Virginia at the Forks of Coal State Natural Area. In addition to design services, the DNR is looking for a firm to provide construction contract administration services throughout the construction phase of the 7,000 square foot education/visitors center.

The project will also include the design and specification of all site infrastructure improvements as well as the building and the design and specification of all exhibit construction and furnishings.

Project Team & Location

We have developed a team that can complete all aspects of your upcoming project. **Alpha Associates** will be the lead firm and your point of contact throughout the project. Alpha will provide all services related to the architectural, civil and structural components of the property assessment. **Miller Engineering** will provide all services related to mechanical, electrical, fire safety and plumbing engineering. Alpha and Miller have teamed together a countless number of projects of every size in the last ten years. Together, the Team will provide you with a detailed report that will give you a complete overview of the building condition, along with recommendations and cost estimates. The staff members who are dedicated to your project are highly qualified architects and engineers with recent, relevant experience and technical expertise. A detailed description of the project team and approach to the project is included in the proposal package.

This project will be managed out of Alpha's Corporate Office located in Morgantown, West Virginia. This location allows our staff to be on site within a day's notice.

Summary

Alpha Associates, Incorporated is looking forward to building upon an already successful relationship with the West Virginia Division of Natural Resources. We hope to work with the DNR to design a facility that showcases the wildlife and natural resources around our great state of West Virginia while honoring the late Mrs. Claudia L. Workman and her family. We look forward to further discussing our qualifications and your upcoming project for the Claudia L. Workman Fish and Wildlife Education Center. Please contact me (304) 296-8216 extension 102. Thank you for your time and consideration.

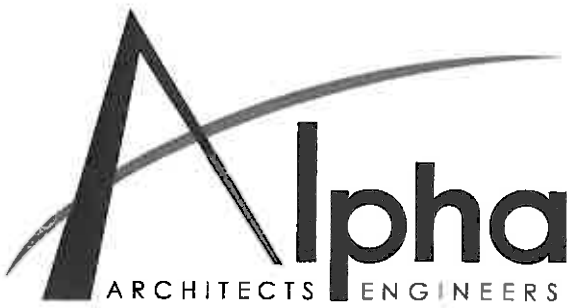
Sincerely,

ALPHA ASSOCIATES, INCORPORATED



President and COO

rick.colebank@thinkALPHAfirst.com



FIRM PROFILE

Firm Profile

FIRM NAME

Alpha Associates, Incorporated

OFFICE LOCATIONS:

209 Prairie Avenue
Morgantown, West Virginia 26501

535 West King Street
Martinsburg, West Virginia 25401

INCORPORATED

1969; Morgantown, WV

FIRM PRINCIPALS

Richard A. Colebank, PE, PS; President and COO
Richard W. Klein, PE, PS; Chairman and CEO
Charles B. Luttrell, PE; Principal
Charles B. Branch, PE; Principal

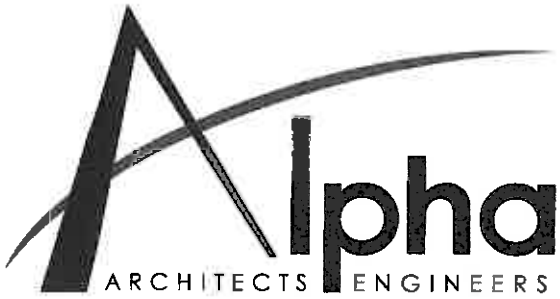
NUMBER OF EMPLOYEES

24 Employees

SERVICES

Architectural Design
Civil Engineering
Structural Engineering
Surveying
Interior Design
Landscape Architecture
Construction Administration

Alpha Associates, Incorporated was established in 1969 and since that time has completed hundreds of projects throughout Morgantown and the state of West Virginia. Alpha's Corporate Office is located in Morgantown with our Eastern Regional Office located in Martinsburg.



STATEMENT OF QUALIFICATIONS

Alpha Associates, Incorporated is a West Virginia-based architectural and engineering design firm that provides services in the areas of architectural design, interior design, construction administration, civil engineering, structural engineering, landscape design, project management, and surveying. Our clients benefit from our unique combination of extensive design and construction experience, advanced technical tools, dedicated principals and highly skilled staff members.

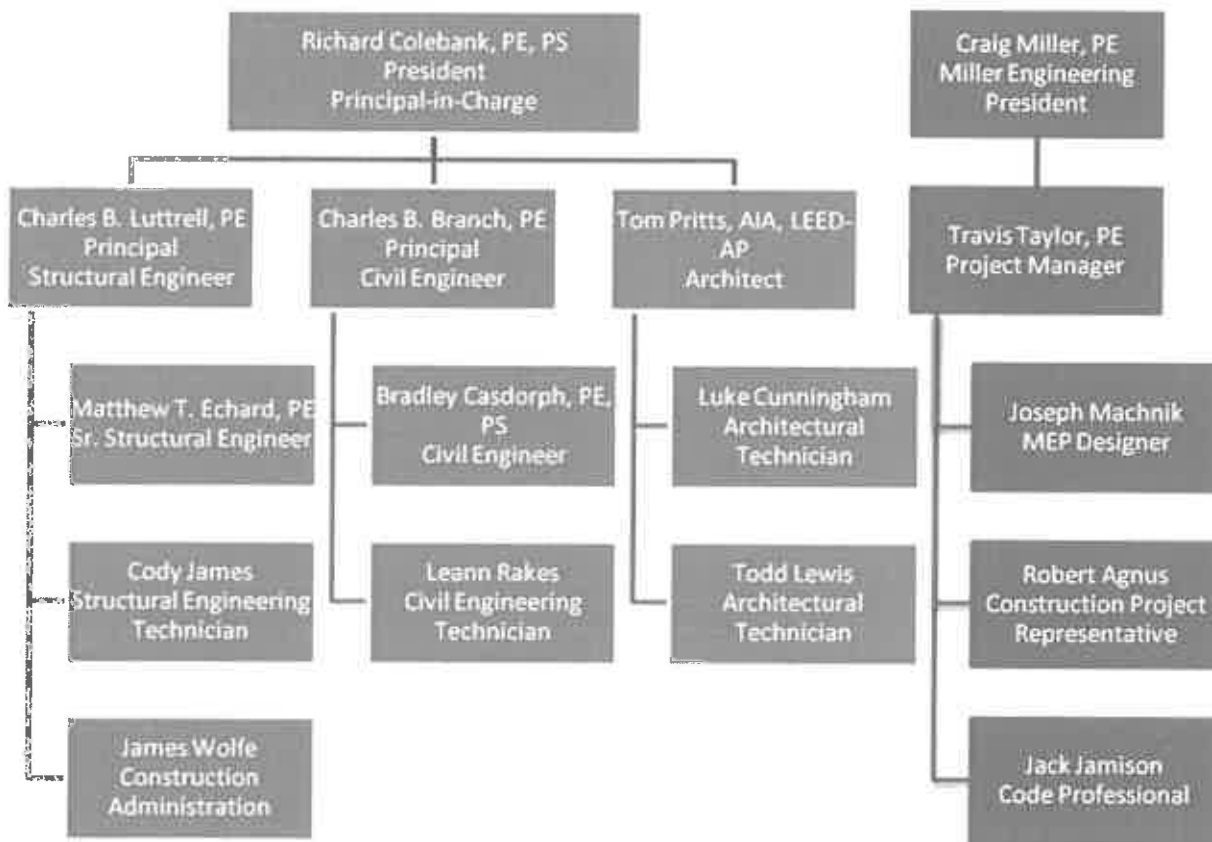
Since 1969, Alpha has provided architectural and engineering design services on numerous projects for the West Virginia Division of Natural Resources. In addition to this, we have designed Welcome Centers for Interstate 68 and 79, which involve similar schematic components to the Claudia L. Workman Fish and Wildlife Education Center.

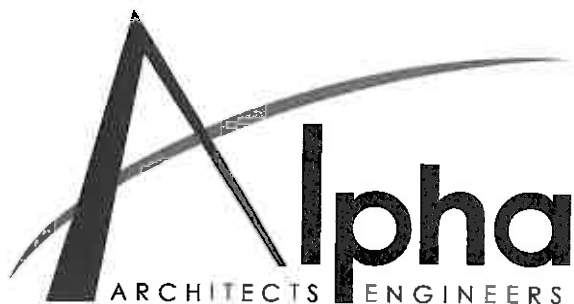
Alpha's philosophy has always been to provide exemplary services for fair fees. We have always believed that the best way to succeed as a business is to go above and beyond the basic requirements of our contracts and do whatever is necessary to successfully complete the given project. What is best for the client is inevitably best for us too.

Everyone at Alpha, from the President to the administrative staff, works towards the goal of completing successful projects. Our principals are involved with projects from the earliest stages right through final completion and beyond. They will provide frequent updates on the project by using effective communication tools to manage the projects and all the involved parties. Our skilled staff of 24 architects, engineers, surveyors and administrative personnel all work diligently towards producing the drawings and specifications that will deliver our clients successful projects, completed on time and within budget.

Alpha has thrived for 46 years because we are a professional organization dedicated to providing superior architectural and engineering design services to our clients. While our staff is large enough to handle any size project, we are also small enough to give each and every one of our projects the individual attention to detail that will make them successful projects for our clients.

Key Personnel/Team Organization





ALPHA RESUMES

Richard A. Colebank, PE, PS | President and COO

SUMMARY

Mr. Colebank is President and Chief Operating Officer of Alpha. He has been with Alpha Associates, Incorporated since 1985. He began his career with Alpha as a staff engineer and progressed through the ranks from Project Manager to his current position. Mr. Colebank has worked with diverse clients such as WVU, City of Morgantown, WVDOH, WVU Foundation, and the Morgantown Municipal Airport, as well as numerous other public and private clients. Since 1988, Mr. Colebank has been the Principal-In-Charge of many of the Civil Engineering projects developed at Alpha. In his current capacity, Mr. Colebank provides financial and administrative guidance for the day to day operations of the company while continuing to manage Civil Engineering Projects.



PROFILE

Broad-based responsibilities in the following areas:

- Project Management
- Business Operations and Financial Management
- Quality Assurance/Quality Control
- Civil Engineering Project Management and Design
- New Business Development
- Expert Testimony and Investigation

PROFESSIONAL HIGHLIGHTS

Project Manager:

- WVU Research Park; Morgantown, WV
- Federal Bureau of Prisons Hazelton Medium Security Prison
- WV Medal of Honor Recipients Plaza; Hazelton, WV
- North Fork Hughes River Recreation Facilities; Ritchie County, WV
- WVDOH I-77 Welcome Center; Williamstown, WV
- Ices Ferry Bridge; Morgantown, WV
- Monongalia General Hospital Expansion; Morgantown, WV
- Monongalia General Hospital Access Road; Morgantown, WV
- Morgantown Municipal Airport Access Road; Morgantown, WV

Indefinite Delivery/Indefinite Quantity Contracts:

- Morgantown Municipal Airport Open End Contract
- West Virginia Division of Highways Open End Contract
- National Energy Technology Laboratories Open End Contract
- West Virginia University Open End Contract
- United States Postal Service Open End Contract



ALPHA RESUMES

Richard A. Colebank, PE, PS | President and COO

EMPLOYMENT HISTORY

1985 – Current	Alpha Associates, Incorporated
1983-1985	Charles Townes and Associates, P.C.
1983	US Army Corps of Engineers

EDUCATION

West Virginia University
 Masters of Business Administration; 1999
 Bachelor - Civil Engineering; 1982

QUALIFICATIONS

- **License:** Professional Engineer: West Virginia, Maryland, Pennsylvania, Virginia
- Professional Surveyor: West Virginia
- Certified Private Pilot

AFFILIATIONS

- Former NSPE/PEPP Governor of WV
- ACEC/WV; Former President and National Director
- University High School Foundation; Charter Member; President
- Morgantown Area Chamber of Commerce; Past Chairman
- Monongalia County MPO Technical Advisory Committee; Member
- Morgantown Area Economic Partnership; Member
- American Red Cross, River Valley Chapter B.O.D.
- WVU College of Civil and Environmental Engineering Visiting Committee

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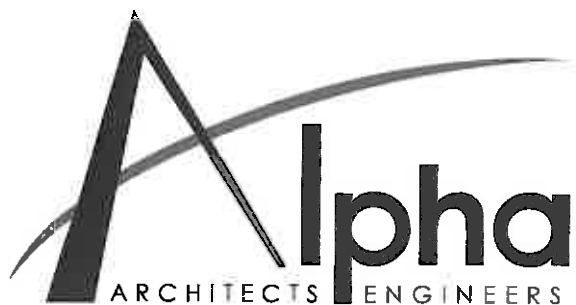
Contact

Richard A. Colebank

304.296.8216

800.640.8216

[rick.colebank@thinkalphafirst.com](mailto:rck.colebank@thinkalphafirst.com)



ALPHA RESUMES

Charles Branch, PE | Principal, Civil Engineer

SUMMARY

As Chief Engineer for site development and planning projects, Mr. Branch is a vital part of the design process at Alpha. His involvement spans from strictly civil engineering projects, to the design of large scale educational projects and medical facilities. Mr. Branch acts as peer review for young engineers in the firm on issues ranging from storm water management to site design. Mr. Branch is also involved in commercial and residential development design, roadway and bridge design and utilities layout.



PROFILE

Broad-based responsibilities in the following areas:

- Highway Design
- Municipal Engineering
- Wastewater Collection
- Storm Sewer System Design
- Storm Water Management
- Site Engineering
- Project Management

PROFESSIONAL HIGHLIGHTS

Civil Engineer/Project Manager:

- WVU Parking Lot 81 Renovations; Morgantown, WV
- WVU Doll's Run Burn Room; Morgantown, WV
- WVU Alumni Center Parking Lot; Morgantown, WV
- WVU Alumni Center Storm Water Management; Morgantown, WV
- WVU Evansdale Redevelopment; Morgantown, WV
- WVU Health Sciences Center Eastern Division; Martinsburg, WV
- Blackshere Bridge; Mannington, WV
- WVDOH I-77 Welcome Center; Williamstown, WV
- WV Medal of Honor Recipients Plaza; Hazelton, WV
- Lewis County High School Bridge; Weston, WV
- Wyoming County Route 10 Relocation; Wyoming County, WV
- Fairmont Federal Credit Union; Bridgeport, WV



ALPHA RESUMES

Charles Branch, PE

Principal, Civil Engineer

EMPLOYMENT HISTORY

1992 – Current Alpha Associates, Incorporated
1988-1992 Reimer, Muegge, & Associates, Inc.

EDUCATION

West Virginia University
Bachelor - Civil Engineering; 2000
Fairmont State College
Bachelor Architectural Engineering Technology; 1988

QUALIFICATIONS

• **License:** Professional Engineer: West Virginia

AFFILIATIONS

- WV Society of Professional Engineers
- National Society of Professional Engineers

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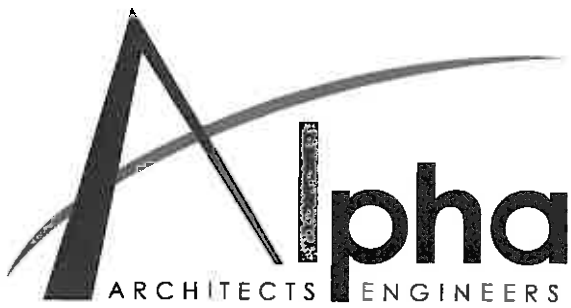
Contact

Charles B. Branch

304.296.8216

800.640.8216

chuck.branch@thinkalphafirst.com



ALPHA RESUMES

Charles B. Luttrell, PE | Principal, Structural Engineer

SUMMARY

Mr. Luttrell has worked with Alpha Associates, Inc. since 1996. He is the chief structural engineer on all projects at Alpha. Before coming to Alpha, Mr. Luttrell's graduate work resulted in several contributions to the cold-formed steel deck industry. His new method of analysis for non-uniform loads on composite concrete and cold formed steel decks has been made a permanent part of the Steel Deck Institute's design manual. Mr. Luttrell also worked on projects that involved pre-stressed timber bridge research with the WVU Constructed Facilities Center. Since coming to Alpha, Mr. Luttrell has had significant involvement in the effort to begin utilizing modern composite materials in practical bridge applications.



PROFILE

Broad-based responsibilities in the following areas:

- Bridge Structural Design and Analysis
- Innovative Bridge Materials Applications
- Building Structural Design and Analysis
- Historical Restoration and Evaluations

PROFESSIONAL HIGHLIGHTS

Structural Engineer:

- Alumni Center Structural Framing and Foundation; WVU
- Engineering Science Building, East Wing Addition, WVU
- Hazel Ruby McQuain Amphitheater Roof; Morgantown, WV
- West Buckeye Bridge; Core, WV
- Washington High School; Charles Town, WV
- WVU Coliseum Structural Inspection; Morgantown, WV
- WVU Coliseum Scoreboard Hoist Project; Morgantown, WV
- Alderson Broaddus College, Rex Pyles Arena Deck; Philippi, WV
- Mountaineer Middle School Renovation; Morgantown, WV
- Salem International Building Inspections; Salem, WV
- Monongalia County Sheriff's Building; Morgantown, WV
- South High Street Bridge, Morgantown, WV
- Ices Ferry Bridge, Morgantown, WV



ALPHA RESUMES

Charles B. Luttrell, PE | Principal, Structural Engineer

EMPLOYMENT HISTORY

1996 – Current	Alpha Associates, Incorporated
1995-1996	Larry D. Luttrell, PE, Ph D
1991-1994	West Virginia University
1990-1991	WVU Constructed Facilities Center

EDUCATION

West Virginia University
 Masters - Structural Engineering; 1995
 Bachelor - Civil Engineering; 1993

QUALIFICATIONS

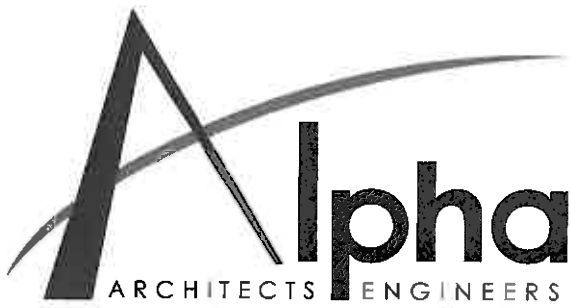
- **License:** Professional Engineer: West Virginia, Pennsylvania

AFFILIATIONS

- WV Society of Professional Engineers
- National Society of Professional Engineers
- Chi Epsilon; Member
- American Concrete Institute; Member

Research Experience

- Cold Formed Steel Deck Research
 - ✓ Fastener Failures
 - ✓ Edge conditions/failures
 - ✓ Butted overlap shear failures
- Composite Cold Formed Steel and Concrete Deck Research
 - ✓ Line load behavior/failures
 - ✓ Concentrated load behavior/failures
 - ✓ Web crippling
 - ✓ Punch failures



ALPHA RESUMES

Bradley Casdorph, PE, PS | Civil Engineer

SUMMARY

Mr. Casdorph joined the Alpha Associates, Incorporated team in 2004 and currently works as a project engineer in the Morgantown office. He has 36 years of professional experience with roadway design, storm sewer design, airport airside renovation and design, storm water management including conveyance and detention, environmental permitting, project administration supervision and inspection, as well as boundary and construction surveying.



PROFILE

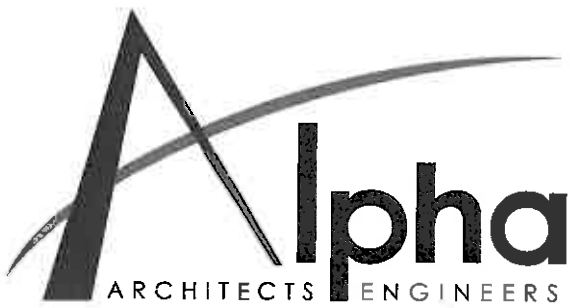
Broad-based responsibilities in the following areas:

- Airport Planning and Design
- Highway Design
- Hydraulic and Hydrology Studies
- Site Plan Development
- Land Surveying

PROFESSIONAL HIGHLIGHTS

Civil Engineering:

- Platinum Properties - Waterfront Conference Center; Morgantown, WV
- Hart Field - Runway Safety Area; Morgantown, WV
- Hart Field - Ramp Renovation and Deicing Facility; Morgantown, WV
- Hart Field - Signage and Lighting; Morgantown, WV
- Hart Field - Airport Certification Manual; Morgantown, WV
- Hart Field - Air Rescue and Fire Fighting Vehicle Procurement, WV
- WVU - Lot 81 Parking Area Improvements; Morgantown, WV
- WVU Animal Facilities Annex, Engineering Retrofit; Morgantown, WV
- McKee Crossing - 120 Acre Subdivision; Martinsburg, WV
- Morgantown Municipal Airport Access Road; Morgantown, WV
- Davison Estates - 60 Acre Subdivision; Morgantown, WV
- Mon General Hospital - East Parking Area; Morgantown, WV
- Applebee's Restaurant, Site Plan; Morgantown, WV
- WVU CPASS/Student Health; Morgantown, WV
- WVU Research Park- 100 Acre ALTA/ACSM Survey; Morgantown, WV
- WVU Museum; Morgantown, WV



ALPHA RESUMES

Bradley Casdorph, PE, PS | Civil Engineer

EMPLOYMENT HISTORY

2004 – Current Alpha Associates, Incorporated
1979-2004 Triad Engineering, Incorporated

EDUCATION

West Virginia University
Masters - Soil Conditions and Foundation Design; 1982
Bachelor - Civil Engineering; 1979

QUALIFICATIONS

- **License:** Professional Engineer: West Virginia
Professional Surveyor: West Virginia
Certified Private Pilot

AFFILIATIONS

- WV Society of Professional Engineers
- National Society of Professional Engineers
- WVSPS - Mountain Regional Chapter; President
- Aircraft Owners and Pilots Association; Member

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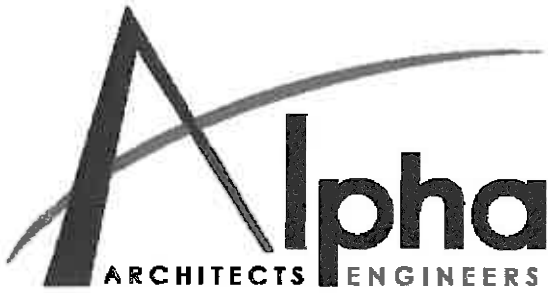
Contact

Bradley Casdorph

304.296.8216

800.640.8216

brad.casdorph@thinkalphafirst.com



ALPHA RESUMES

Matthew T. Echard, PE | Structural Engineer

SUMMARY

Matthew joined Alpha Associates, Inc in 2016 with a strong belief that his clients deserve intelligent, performance-based and value-oriented solutions. Drawing on experience working across the United States, Europe, and the Middle East, he returned to West Virginia to provide world-class service in an historically underserved region while making positive contributions to the future growth of his home state.



PROFILE

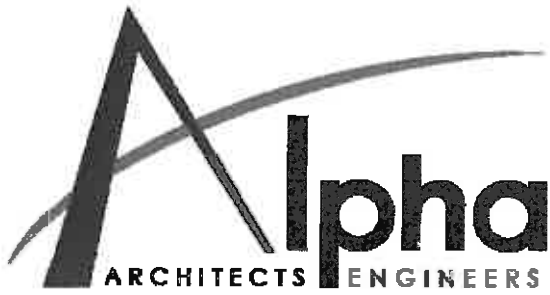
Broad-based responsibilities in the following areas:

- Structural Engineering
- Structural Forensics
- Project Management

PROFESSIONAL HIGHLIGHTS

Structural Engineer:

- Grant County Bank; Petersburg, WV
- CAMC Utilities Bridge; Charleston, WV
- Weyerhaeuser Sutton - OSB Facilities Alterations; Heaters, WV
- Hotel America Tower & Residences; Dubai, UAE
- The Buildings by Daman; Dubai, UAE
- Harvard University Frist Science; Allston, MA
- Continuities of the Incomplete - MOCA; Los Angeles, CA
- Container House; Topanga Canyon, CA
- Columbus Center, Parcel 16; Boston, MA
- Logan International Airport, Seismic Retrofit; Boston, MA
- Falmouth High School Renovation & Gym; Falmouth, MA



ALPHA RESUMES

Matthew T. Echard, PE | Structural Engineer

EMPLOYMENT HISTORY

2016-Current	Alpha Associates, Incorporated
2010-2015	Echard ingenieurBüro
2006-2009	Buro Happold Consulting Engineers
2003-2006	RISA Technologies
2000-2003	Zaldastani Associates, Inc.

EDUCATION

Massachusetts Institute of Technology
 Masters - Engineering and Environmental Mechanics 2002
 Bachelor - Civil Engineering; 2000

QUALIFICATIONS

- **License:** Professional Engineer: West Virginia, California
- California OES SAP Evaluator

AFFILIATIONS

- American Concrete Institute (ACI)
- American Institute of Steel Construction (AISC)
- American Society of Civil Engineers (ASCE)
- American Wood Council (AWC)
- Chi Epsilon (XE)

Publications

- Echard, M. and Tonis, D. Convergent Design Methodology for Bio-Science Labs: Architectonic and Performative Structural Considerations Using the Geilinger Composite Column Solution. Proceedings of ICSA2010 - First International Conference on Structures and Architecture Guimarães, Portugal, July 2010, Taylor & Francis.
- Echard, M. Structural Analysis and Design Within a BIM Framework. EASEC 10 - East Asia Structural Conference, Bangkok, Thailand, August 2006.

think  first.com

Contact

Matthew T. Echard

304.296.8216

800.640.8216

matthew.echard@thinkalphafirst.com



ALPHA RESUMES

Thomas Pritts, AIA, LEED-AP | Associate, Architect

SUMMARY

Mr. Pritts is a licensed Architect who joined the Alpha Associates, Incorporated staff in the Morgantown office in 2004. His involvement in projects in West Virginia's Eastern Panhandle facilitated his relocation to Cumberland, MD in 2008 to better serve clients in that area. In 2008 he received his LEED Accredited Professional Certification from the USGBC and Construction Document Technologist designation from the Construction Specification Institute. Mr. Pritts has become a valuable asset to Alpha Associates with broad experience in K-12 and higher educational design, commercial design and programmatic development.

PROFILE

Broad-based responsibilities in the following areas:

- Architectural Design
- Programmatic Development
- Green Building Design

PROFESSIONAL HIGHLIGHTS

Higher Educational Facilities

- WVU CPASS and Student Health Building; Morgantown, WV
- Glenville State Skybox; Glenville, WV
- Potomac State College, ADA Connector Link; Keyser, WV
- Engineering Science Building, East Wing Addition, WVU
- Potomac State College, Library Façade Replacement, Keyser, WV
- Potomac State College, McKee Arts Center Plaza; Keyser, WV

K-12 Educational Facilities:

- Huff Consolidated School; Hanover, WV
- Aurora Elementary School Addition; Preston County, WV
- Riverview High School Football Fieldhouse; McDowell County, WV
- Washington High School; Charles Town, WV
- Monongalia County Schools – School Access Safety; Morgantown, WV
- Pineville Elementary School; Wyoming County, WV

Miscellaneous:

- Harry Green Nissan; Clarksburg, WV
- Martinsburg Wastewater Treatment Plant; Martinsburg, WV
- Bavarian Inn Pool; Shepherdstown, WV
- Fairmont Federal Credit Union; Bridgeport, WV
- Clear Mountain Bank, Reedsville Branch; Reedsville, WV
- Clear Mountain Bank, Oakland Branch; Oakland, MD
- Jefferson County Emergency Operations Building; Ranson, WV
- Eastern Panhandle Transit Authority Renovation; Martinsburg, WV
- Yellow Brick Bank; Shepherdstown, WV





ALPHA RESUMES

Thomas Pritts, AIA, LEED-AP

Associate, Architect

EMPLOYMENT HISTORY

2004 – Current Alpha Associates, Incorporated
2003-2004 Marshall Craft Associates

EDUCATION

Virginia Tech
Bachelor of Architecture; 2004

QUALIFICATIONS

- **License:** Registered Architect: West Virginia, Maryland
- NCARB Certified
- Leadership in Energy and Environmental Design Accredited Professional
- Construction Document Technologist
- Certified Construction Specifier

AFFILIATIONS

- American Institute of Architects
- West Virginia Society of Architects
- Autodesk User Group International
- U.S. Green Building Council
- Construction Specification Institute

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Contact

Thomas Pritts

304.296.8216

800.640.8216

tom.pritts@thinkalphafirst.com



B. Craig Miller PE, LEED-AP

President • Principal Engineer

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

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

Profile

President

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

Project Highlights

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

Professional History

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

Education

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

LICENSE/CERTIFICATION

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





Travis Taylor, PE

Staff Engineer

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

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

Profile

Staff Engineer

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

Project Highlights

- Bobtown Elementary School HVAC Renovation
- Electrical Contractor Project Manager for the *Louis Johnson VA Hospital*
-- 3rd floor inpatient Renovation
- WV Veterans Memorial Renovations
- Adaptive Renovation of the Bartlett House
- Pipestem state Park Switchgear, Piping, and Fire Alarm Upgrades
- WVU Esland Hall Fire Alarm and Sprinkler Upgrades
- Adaptive re-use of Urings General Store into mixed-use facility

Professional History

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

Education

2006 West Virginia University, BS - Mechanical Engineering

LICENSE/CERTIFICATION

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





Joseph Machnik

MEP Designer

Joseph joined Miller 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

Design of Mechanical, Electrical, and Plumbing Systems

- Drawing Coordination of New Construction and Renovation Designs including Autodesk Revit® & AutoCAD®
- Design of Plumbing & Mechanical Systems
- Assistance with Construction Administration

PROFESSIONAL PROJECT HIGHLIGHTS

- Bobtown Elementary School HVAC Renovation
- WV Veterans Memorial Renovation
- Bartlett House Renovation
- Adaptive Re-Use of Urlings General Store
- Tygart Lake State Park Lodge Kitchen HVAC Upgrades

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



Robert Angus

Construction Project Representative

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

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

Profile

Construction Administration

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

Project Highlights

- 3rd Party Construction Observation – Canean Valley Resort
- Bartlett House Renovation
- Veteran’s Memorial and Reflecting Pool
- Blackwater Falls Kitchen HVAC Renovation, Fire/Sprinkler System
- Metropolitan Theater Historic Renovation
- Holly Grove Historic Mansion Renovation

Professional History

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

Education

2009	Monongalia County Technical Education Center	Heating, Cooling, and Refrigeration Certification
1996	West Virginia University	Recreation and Parks Administration

LICENSE/CERTIFICATION

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





Jack Jaminson

Code Professional

Jack brings (15) years as an electrical/building inspector and over (20) years of experience in the commercial electrical construction field. 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. His experience and knowledge are valuable resources to Miller's complete assessment process.

Profile

Design of Electrical Systems

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

PROFESSIONAL HIGHLIGHTS

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

Professional History

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

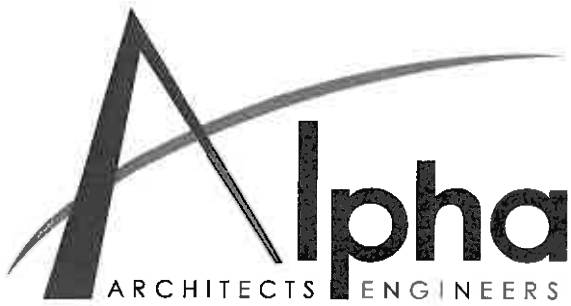
Education

1971: Fairmont State College, BS-Engineering Technology-Electronics

LICENSES/CERTIFICATIONS

- Master Code Professional
- ICC Commercial Building, Building Plans, Commercial Plumbing, Residential Energy, and Accessibility Inspector/Examiner
- IAEE 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





ALPHA EXPERIENCE

Ongoing Projects with WVDNR

Canaan Valley Resort Buildings 1, 4, & 5

Davis, WV

Alpha Associates, Incorporated is providing demolition plans for the existing buildings 1, 4, and 5 at Canaan Valley Resort. The reclamation plan includes creating two levels of grassed, accessible open spaces that can be used for outdoor activities.

Coopers Rock State Forest

Bruceton Mills, WV

Alpha Associates, Incorporated is designing a new potable water supply and distribution system for Cooper's Rock State Forest. The current well, storage tank, and pump systems are deficient and in need of replacement. The upgraded system will serve the Forest Superintendent's residence, the Assistant Superintendent's residence, as well as the Forest Office Building.

Watters Smith Memorial State Park

Jane Lew, WV

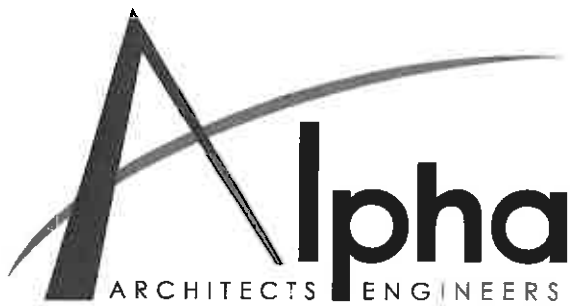
Alpha Associates, Incorporated is preparing demolition plans for the existing pool at Watters Smith Memorial State Park. As part of the reclamation, Alpha is doing the architectural design and site design for a large pavilion that the park will rent to the public to use for gatherings such as weddings receptions, family reunions, and company picnics.

Alpha Associates, Incorporated is also developing a structural engineering plan to straighten and stabilize the historic Farm Barn located within the Historical Restoration and Interpretive Area of the park.

Tygart Lake State Park

Grafton, WV

Alpha Associates, Incorporated is preparing plans for the renovation and expansion of the existing boat ramps and parking lots at the Lake. The project will provide for expanded parking and better usability for the existing boat launches. With the additional parking and improved layout, the boat launch area will function more effectively and provide a better experience for users of the Lake.



ALPHA EXPERIENCE

I-68 Welcome Center | 2002

Transportation Case Study

West Virginia Medal of Honor Recipients Memorial Plaza

Hazleton, WV

This project required a separate sewage treatment plant and major utility extensions due to the remote location of the site. The building is designed using native West Virginian materials as a central design theme. The design has steeply sloped, metal-clad roofs evocative of West Virginia's hills. Exposed heavy timber framing, native ledge rock stonework and rough-cut cedar siding are used both inside and outside of the building as a symbolic reminder of the beauty and ruggedness of the State's rustic environment.

The Welcome Center is a single-story building of approx. 7,700 square feet. It has separate spaces for public restrooms, vending, landscaped sitting "mall", arts and crafts display and offices. A state of the art, multiple-monitor, computerized theater having multi-media presentation capabilities is also included, as well as interactive computer kiosks bringing the latest updates on regional and state-wide information) to residents and visitors alike. This design utilizes large glass view areas within the Welcome Center to take advantage of the mountainous vista at this site.

Project Contact:

Dirar Ahmad

State Capital Complex

Bldg. 5, Room 317

Charleston, WV 25301

304-558-9721

At a Glance

CLIENT: WV Division of Highways

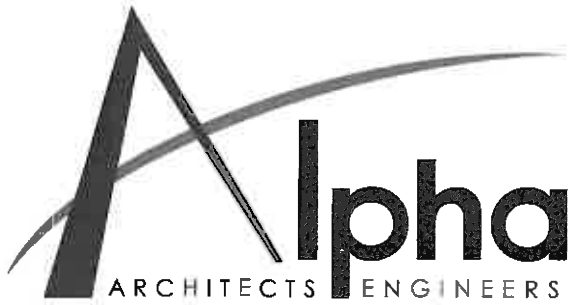
LOCATION: Hazleton, WV

COMPLETION DATE: 2002

SIZE: 7,700 SF

CONSTRUCTION COST: \$2 Million





ALPHA EXPERIENCE

I-77 Welcome Center | 2004

Transportation Case Study

I-77 Welcome Center
Williamstown, WV

The I-77 Welcome Center in Williamstown, WV was designed for the West Virginia Division of Highways. The building is designed using native West Virginian materials as a central design theme. The design has steeply sloped, metal-clad roofs evocative of West Virginia's hills. Exposed heavy timber framing, native ledge rock stonework and rough-cut cedar siding are used both inside and outside of the building as a symbolic reminder of the beauty and ruggedness of the State's rustic environment.

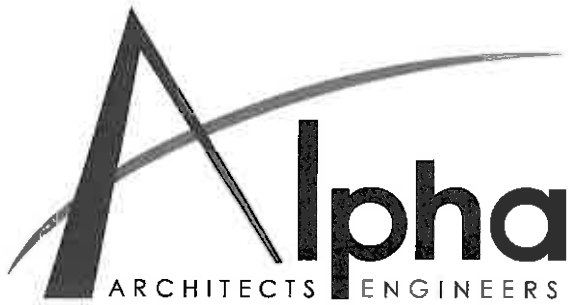
The Welcome Center is a single-story building of approximately 7,700 square feet in area. It has separate spaces for public restrooms, vending, landscaped sitting "mall", arts and crafts display and offices. A state of the art, multiple-monitor, computerized theater having multi-media presentation capabilities is also included, as well as interactive computer kiosks bringing the latest updates on regional and state-wide information (such as accommodations, travel conditions, weather and festival events) to residents and visitors alike.

Project Contact:
Dirar Ahmad
State Capital Complex
Bldg. 5, Room 317
Charleston, WV 25301
304-558-9721

At a Glance

CLIENT: WV Division of Highways
LOCATION: Williamstown, WV
COMPLETION DATE: 2004
SIZE: 7,700 SF
CONSTRUCTION COST: \$4.9 Million

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ALPHA EXPERIENCE

Cass Scenic Railroad | 2009

Historical Case Study

Cass Scenic Railroad - Clubhouse Renovation
Cass, WV

Alpha performed an evaluation of the building condition, structural foundation, and MEP systems for the Clubhouse to document the historic structure and utilize the information to determine what the best use of the building would be. Alpha then designed the renovation of this historic landmark originally built in 1916.

Renovation of the Cass Clubhouse was first developed as a lodge concept. When that was deemed too costly, the renovation/restoration design was confined to the exterior of the building shell and first floor. This stabilized the building and fixed major problems while allowing the first floor to be operated as a museum.

At a Glance

CLIENT: WV DNR

LOCATION: Cass, WV

COMPLETION DATE: 2009

SIZE: 5,163 Sq. Ft.

CONSTRUCTION COST: \$505,000

Fee: \$75,617

Project Contact:

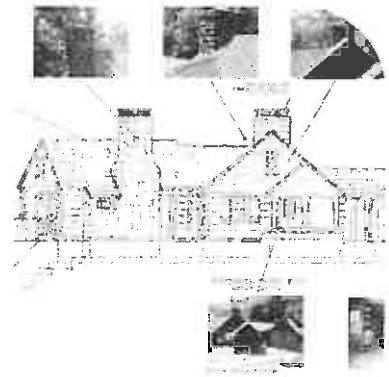
Brad Leslie

324 4th Street

South Charleston, WV 25303

304-558-2764

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ALPHA EXPERIENCE

CCC Museum | 2011

Recreation Case Study

**Hawks Nest State Park CCC Museum
Anstead, WV**

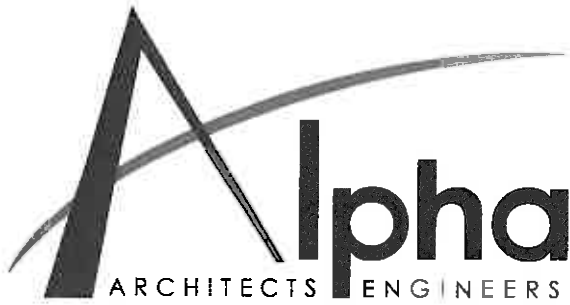
The CCC Museum at the Hawks Nest State Park, located off of Route 60 in Anstead, West Virginia, was established under The New Deal. The museum had very simple goals: to be renovated to fit the needs of the State Park while preserving the historic exterior. The structure had signs of water damage and needed general repair and replacement. Alpha Associates, Incorporated responded with a strategy to stabilize and restore the building with repairs and replacement of doors, walls, windows, and siding along with regrading for water flow purposes to prevent any further water damage. All work was completed in compliance with the Preservation Alliance of West Virginia.

Project Contact:
Bradley S. Leslie
324 Fourth Avenue
South Charleston, WV 25303
304-558-2764

At a Glance

CLIENT: DNR Parks and Recreation
LOCATION: Anstead, WV
COMPLETION DATE: 2011

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ALPHA EXPERIENCE

Picnic Pavilion 2011

Recreation Case Study

Hawks Nest State Park Picnic Pavilion
Anstead, WV

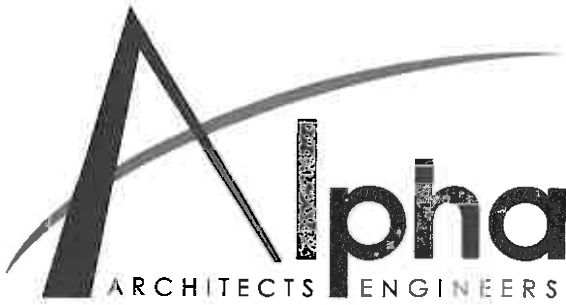
The picnic pavilion at the Hawks Nest State Park, located off of Route 60 in Anstead, West Virginia, was established under The New Deal. The main goal of restoration was to provide guests with an esthetically pleasing historic site during their visit at Hawks Nest State Park. Alpha Associates, Incorporated provided plans for the park to restore the pavilion. These plans included the repair and repoint of fireplace and surround wall, cleaning existing foundation drains, clear vegetation away from building, recapping chimney, roof repair, and installation of a waterproof wall to prevent water damage.

Project Contact:
Bradley S. Leslie
324 Fourth Avenue
South Charleston, WV 25303
304-558-2764

At a Glance

CLIENT: DNR Parks and Recreation
LOCATION: Anstead, WV
COMPLETION DATE: 2011

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ALPHA EXPERIENCE

Berkeley County War Memorial Park | 2005

Architectural Case Study

Berkeley County War Memorial Park
Martinsburg, WV

Alpha Associates, Incorporated was pleased to design a concession stand and outdoor dining area for War Memorial Park in Martinsburg, West Virginia. Alpha's architectural staff chose to design the concession stand and roof structure to blend in with surrounding structures and the natural beauty of the area.

The roof structure, designed using glu-laminated wood beams, maximizes the seasonal usage of the concession stand by allowing guests to dine in a covered pavilion.

Project Contact:
R. Stephen Caflett,
Executive Director
273 Woodbury Avenue
Martinsburg, WV 25404
304-264-4842

At a Glance

CLIENT: Berkely County
Parks and Recreation
LOCATION: Martinsburg, WV
COMPLETION DATE: 2005
SIZE: 400 sq. ft.

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Bartlett House

Engineering Design

- Consultation for Phased Plan
- Mechanical, Electrical, Plumbing
- Fire Alarms and Sprinkler Systems
- Construction Administration

Project Budget: \$ 3.1M

Location: Morgantown, WV

Facility Area: 27,500 ft²



Project Goals:

The owner procured this property in a partial build out condition. The goal of the project was to repurpose the facility from an apartment building into an emergency housing shelter. The facility required outfitting the space for family apartments, temporary dorms, commercial kitchen, multi-purpose room, laundry facilities, and office spaces for staff social work activities.

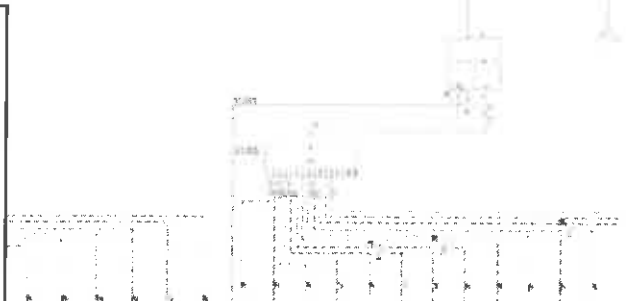
Project Outcome Highlights:

- Detailed field discovery and documentation to identify existing conditions.
- Engineered solutions to meet client goals, budget, and Fair Housing Act requirements.
- Fire alarms, sprinklers, and exit signage upgraded to meet state code requirements for public housing.
- Engineering design specifications to meet all ADA requirements.
- Electrical design to provide emergency power and back-up generator electric supply for emergency conditions.

The project is progressing well and is currently in phase 2 of the renovation process with Miller Engineering providing construction administration to support MEP design.

Project Manager: Keri DeMasi
Executive Director, Bartlett House
West Run Road, Morgantown, WV 26505
Phone: (304) 292-0101

**West Virginia University
Chestnut Ridge Research Building
HVAC Renovation**



(Miller Engineering Services)
 Mechanical, Electrical, Plumbing,
 Fire Protection, Fire Alarm, and
 Telephone/Data
 Renovation of HVAC and Tie-in
 to Systems

Project Scope

Total Project Budget: \$610k
 MEP Budget: \$185k
 Project Completion Date: 2009

Location: Morgantown, West Virginia
 Facility Area: 5,700 ft²

The renovation of previous storage space into usable office and conference space was the goal of this project. The owner sought an aesthetic and architecturally appropriate, concealed mechanical system integrated into the structure. The existing systems were to be recycled and incorporated into the renovation to minimize expense.

Miller Engineering's Role

The project required the installation of a new HVAC system to serve the (5th) and (7th) floors of this building. A new air system was installed in the space while incorporating a rooftop condenser. During a field study, the need for a hot water system was discovered and resulted in re-piping the existing building's hot water system to increase heating capacity. Electrical and plumbing systems were developed to support the retrofit of this building. The air system incorporated enthalpy-based outside air economizer and (CO₂) control of ventilation for increased energy efficiency. The mechanical, electrical, and plumbing systems had to be concealed where appropriate and work around existing building systems, such as roof drain leaders and space constraints. Extensive detailing of system components and aggressive construction management combined to bring this highly successful project to completion.

Project Owner	Project Manager	Prime Contractor
West Virginia University 979 Rawley Lane Morgantown, WV 26506	John Summers WVU Facilities 979 Rawley Lane Morgantown, WV 26506 Phone: (304) 293-7773	Landau Building Company Alex Dixon 9855 Rinaman Road Wexford, PA 15090 Phone: (724) 935-8800



Dominion Post Building HVAC Renovation



(Miller Engineering Services)

Mechanical and Electrical Engineering Design, Construction
Administration of Renovation
HVAC Upgrade with multi-level and zone tie-in

Project Scope

Total Project Budget: \$1.8M

MEP Budget: \$1.8M

Project Completion Date: 2010

Location: Morgantown, West Virginia

Facility Area: 18,000 ft²

The Greer building is home to the **Dominion Post** newspaper, several local radio stations, and office space for these media entities. This project entailed renovating, outdated, HVAC systems to better serve the floor plan of the multi-level building and create consistent atmospheric conditions for its residents; keeping in mind the unique electronic production needs of the facilities users. Temperature fluctuations throughout the building were extreme and posed issue to its residents and needed resolved.

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 plan. The project was a success as a newly designed system was implemented into the existing floor plan and designed as scalable for future needs of the building's owner.

Temperature control issues were resolved and the residents of the building could enjoy a more hospitable, consistent working environment.

Project Owner	Project Manager	Prime Contractor
Greer Industries, Inc. 1201 Hal Greer Boulevard Morgantown, WV 26508 Phone: (304) 376-2642	Chris Halterman Director of Operations 1201 Hal Greer Blvd. Morgantown, WV 26508 Phone: (304) 376-2642	Délatre Corporation Marty Delattre 505 Hudson Avenue Monongahela, PA 15063 Phone: (724) 258-8571



Med Express National Headquarters



(Miller Engineering Services)

Mechanical, Electrical, Plumbing,
Fire Protection, Fire Alarm,
Construction Administration, and
Engineering Design

Project Scope

Location: Morgantown, West Virginia

MEP Budget: \$3.6M

Facility Area: 31,000 ft²

Project Completion Date: 2009

The Med Express National Headquarters office building is a facility adaptive re-use success story. Originally a grocery store, the facility was transformed into a modern, comfortable, user-friendly office building. The owner's needs for the new facility were vastly different than the previous tenant. The facility's completion has become the hallmark of an area wide revitalization project.

Miller Engineering's Role

A full mechanical, electrical, and plumbing upgrade was necessary to the former building in order to meet the needs and demands of the client's use. A full computational model of the building and the new floor plan revealed that use of rooftop units of varying configurations would effectively condition the facility. Variable air volume (VAV) and constant volume systems were utilized to accomplish this goal. In addition, a dedicated air system was required for the critical corporate data center which would also accommodate the current system load and anticipated growth of the owner.

Halon systems, extensive fire and alarm systems were installed to bring the facility to safety and state regulation codes. The critical corporate data center also required the design of a full standby power system with generator, uninterruptible power supply, and transient voltage surge suppression. All project goals were met and the project was a success.



We provide Solutions. You can expect Excellence.

Metropolitan Theater

Engineering Design

- Mechanical and Data
- Electrical
- Plumbing
- Fire Alarms and Sprinkler Systems

Project Budget: \$ 400k

Location: Morgantown, WV

Facility Area: 15, 400 ft²



Project Goals:

The scope of work required engineering design solutions to support renovations of the theater, a historic building.

Renovations required addressing humidity and atmosphere conditions. Updating code and public safety code requirements.

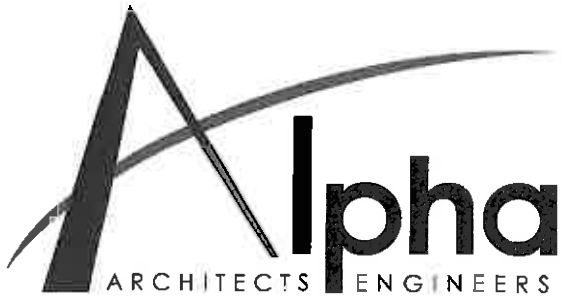
Improving theatrical lighting and lighting controls while retrofitting electric capacity.

Project Outcome Highlights:

- Detailed field discovery and documentation, as previous blueprints were unavailable.
- Engineered solutions to respect the historic nature of the building and identify parameters.
- Fire alarms, sprinklers, and exit signage upgraded to meet current code requirements.
- Concealed sprinklers to update fire code yet protect the aesthetics of the architecture.
- Retro-fitted air handler within available space and addressed ductwork to dampen noise as not to interfere with stage performances.

The project has been deemed a success; as the owner and community are pleased with the preservation of the theater.

Project Manager: Terry Hough, PE, PS, CFM
Public Works Director, City Engineer
Third Floor, Room 26, Morgantown, WV 26505
Phone: (304) 284-7412



REFERENCES

Michael Evans, Architect

State of West Virginia

1900 Kanawha Blvd., East
Bldg. 1 Room MB-60
Charleston, WV 25305
304-957-7145

Melody Haynes, Procurement Officer

State of West Virginia

1900 Kanawha Blvd. East
Bldg. 1, Room MB-60
Charleston, WV 25305
304-957-7173

Kent George, Chief Executive Officer

Robinson & McElwee

Holiday Inn & Suites South Charleston

700 Virginia Street East
Charleston, WV 25301
304-344-5800

Real Estate Division

State of West Virginia

1409 Greenbrier Street
Charleston, WV 25311
304-558-3062

Mr. John Sommers, Senior Project Manager

West Virginia University

979 Rawley Lane
Morgantown, WV 26506
304-293-2856

“Every aspect and detail of your planning, coordination, and completed projects have been exceptional and outstanding in every regard.”

**Robert Hammel, Former Director
Morgantown Municipal Airport**

“The entire staff at Alpha has always been responsive, professional, creative, and practical. Most importantly, they are always concerned about our needs as a client. They quickly respond to challenges that arise during construction.”

**Brian Thomas, President
Clear Mountain Bank**