



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
 DNRB11013

PAGE
 1

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

RFQ COPY

TYPE NAME/ADDRESS HERE

Alpha Associates, Inc.
 209 Prairie Avenue
 Morgantown, WV 26501

DIVISION OF NATURAL RESOURCES
 PARKS & RECREATION SECTION

324 4TH AVENUE
 SOUTH CHARLESTON, WV
 25303-1228 304-558-3397

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
08/03/2010				

BID OPENING DATE: 09/02/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		
ARCHITECTURAL/ENGINEERING SERVICES EXPRESSION OF INTEREST (EOI) THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL ENGINEERING AND RELATED SERVICES TO DESIGN, CONSTRUCT, OR SPECIFY IMPROVEMENTS TO THE SLED RUN AT BLACKWATER FALLS STATE PARK PER THE ATTACHED. TECHNICAL QUESTIONS CONCERNING THIS PROJECT MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WV STATE PURCHASING DIVISION VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 08/16/2010 AT THE CLOSE OF BUSINESS. ALL TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE HAS LAPSED. QUESTIONS CONCERNING THE ACTUAL PROCESS BY WHICH A FIRM MAY SUBMIT AN EXPRESSION OF INTEREST TO THE STATE OF WEST VIRGINIA ARE NOT CONSIDERED TO BE TECHNICAL QUESTIONS AND MAY BE SUBMITTED AT ANY TIME PRIOR TO THE BID OPENING AND IN ANY FORMAT.						

RECEIVED
 2010 SEP -2 A 10: 04
 PURCHASING DIVISION
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Frank Whittaker</i>	TELEPHONE 304-296-8216	DATE September 1, 2010
TITLE President and COO	FEIN 55-0516286	ADDRESS CHANGES TO BE NOTED ABOVE

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



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VENDOR

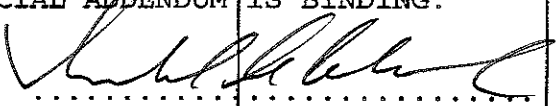
RFQ COPY
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 Alpha Associates, Inc.
 209 Prairie Avenue
 Morgantown, WV 26501

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
EXHIBIT 10						
REQUISITION NO.: DNRB11013.....						
ADDENDUM ACKNOWLEDGEMENT						
I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED 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 PROPOSALS.						
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						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE 	TELEPHONE 304-296-8216	DATE September 1, 2010
TITLE President and COO	FEIN 55-0516286	ADDRESS CHANGES TO BE NOTED ABOVE

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DIVISION OF NATURAL RESOURCES
 PARKS & RECREATION SECTION

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BID OPENING DATE: 09/02/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UCP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
				Alpha Associates, Incorporated COMPANY September 1, 2010 DATE		
NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE PROPOSAL.						
REV. 09/21/2009						
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.						
NOTICE						
A SIGNED EOI MUST BE SUBMITTED TO:						
DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130						
THE EOI SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE EOI MAY NOT BE CONSIDERED:						
SEALED EOI						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE *[Signature]* TELEPHONE 304-296-8216 DATE September 1, 2010
 TITLE President and COO FEIN 55-0516286 ADDRESS CHANGES TO BE NOTED ABOVE

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08/03/2010				

BID OPENING DATE: 09/02/2010 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
BUYER:				44		
EOI. NO.:				DNRB11006		
BID OPENING DATE:				09/02/2010		
EOI OPENING TIME:				1:30 PM		
PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR PROPOSAL						
304-296-8216						

CONTACT PERSON (PLEASE PRINT CLEARLY):						
Richard A. Colebank, PE., PS						

***** THIS IS THE END OF RFQ DNRB11013 ***** TOTAL:						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE 	TELEPHONE 304-296-8216	DATE September 1, 2010
TITLE President and COO	FEIN 55-0516286	ADDRESS CHANGES TO BE NOTED ABOVE

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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.

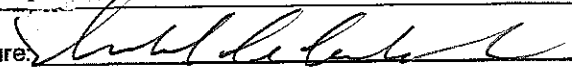
"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality 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: Alpha Associates, Incorporated

Authorized Signature:  Date: 8/31/10

State of West Virginia

County of Monongalia, to-wit:

Taken, subscribed, and sworn to before me this ___ day of _____, 20__.

My Commission expires _____, 20__.

AFFIX SEAL HERE

NOTARY PUBLIC _____



ARCHITECTS • ENGINEERS • SURVEYORS

September 2, 2010

Department of Administration
Purchasing Division
Building 15
2019 Washington Street, East
Charleston, WV 25305-0130

Attn: Mr. Frank Whittaker

**Re: RFQ No. DNRB11013 – Expression of Interest
Blackwater Falls State Park Sled Run Improvements**

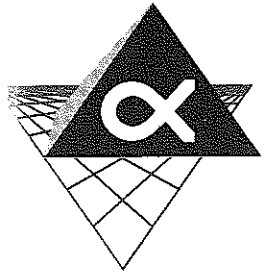
Dear Mr. Whittaker,

Alpha Associates, Incorporated has developed a team that will be the perfect partner for the Division of Natural Resources for the improvements to the Sled Run at Blackwater Falls State Park. Our team is comprised of a combination of engineering firms with expertise in the areas needed to successfully complete your project.

Alpha will be the lead firm providing civil engineering, structural engineering, architectural design, surveying and landscape design services. Alpha will provide professional design services related to the design of wells, enlargement of pond, water distribution system, pump house and lines, as well as site grading. Our 41 years of providing engineering design services, as well as our experience working with the Division of Natural Services will contribute to the success of this project.

Stevens Engineering has joined Alpha's team as an expert in the design of surface lifts and tow systems. Stevens Engineering has worked for the State of West Virginia Department of Natural Resources as a passenger ropeway consultant for its ski lifts and aerial tramways at Canaan Valley, Hawks Nest and Pipestem Resort State Parks. They have designed many facilities that are similar to the proposed sledding hill at Blackwater Falls State Park. Stevens Engineering will be a great asset to our team.

The final component of our design team is Miller Engineering, Inc. MEI will provide design services related to the necessary electrical service upgrades and the area lighting for the sled run, as well as any other mechanical, electrical or plumbing engineering needs that may be needed. MEI has worked with Alpha in the recent past on projects for the Division of Natural Resources including the Cass Scenic Railroad Clubhouse Renovation and the renovations to the Berkeley Springs Bath House. MEI has also worked with Alpha to design numerous other projects including the Morgantown Municipal Airport Taxiway lighting and the Willowdale walkway lighting.



The above team has the experience, expertise, and knowledge needed to complete all aspects of your Sled Run Improvements project. Within this Expression of Interest you will find additional information on your design team. We look forward to working with the Division of Natural Resources on this project.

Sincerely,

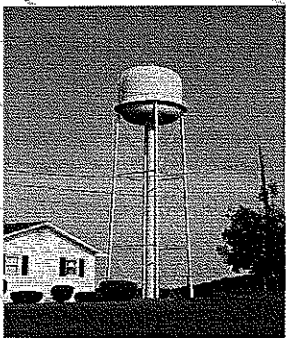
ALPHA ASSOCIATES, INCORPORATED

A handwritten signature in black ink, appearing to read "Richard A. Colebank". The signature is fluid and cursive, with a large initial "R" and "C".

Richard A. Colebank, PE, PS
President and COO
rcolebank@alphaaec.com

Firm ProfileALPHA ASSOCIATES,
INCORPORATED
2010**Firm Profile**

Alpha Associates, Incorporated

Firm Name: Alpha Associates, Incorporated**Corporate Office:** 209 Prairie Avenue
Morgantown, West Virginia 26501**Eastern Regional Office:** 535 West King Street
Martinsburg, West Virginia 25401**Incorporated:** 1969; Morgantown, West Virginia**Firm Principals:** Richard A. Colebank, PE, PS; President and COO
Richard W. Klein, PE, PS; Chairman and CEO
William A. Atwell, Jr., PE; Senior Vice President
James A. Davison, AIA; Vice President
Charles B. Luttrell, PE; Principal
Steven V. Buchanan, PE, PS; Principal
Matthew S. Breakey, AIA, LEED-AP; Principal
Charles B. Branch, PE; Principal**Number of Employees:** 36 Employees

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



ARCHITECTS • ENGINEERS • SURVEYORS

Recreation Case Studies

Project Description

North Fork Hughes River Recreational Design Ritchie County, WV

Alpha Associates, Incorporated provided Architectural, Engineering and Landscape Design for the implementation of a \$12 Million Master Plan for the USDA. Projects include:

- Restrooms and Bath Houses
- Amphitheater
- Trails
- Parking Areas
- Check In Building
- Water Transmission and Distribution
- Navigational Aids
- Camping Areas (Deluxe and Primitive)
- Picnic Areas
- Sport Fields
- Roadways
- Maintenance Building
- Sewage Collection and Treatment

Alpha Associates, Incorporated civil engineering work included approximately 21,000 LF of 2" to 6" waterline to serve new recreational facilities near the newly constructed lake.

The project included septic tanks, equalization tanks, distribution tanks, recirculating sand filters, ultraviolet disinfection as well as three pump stations (80 GPM at 185 feet TDH, 36 GPM at 78 feet TDH, and 120 GPM at 207 feet TDH) and approximately 31,200 linear feet of gravity sewer, variable grade sewer, and force main. Permitting and design services were provided.

At A Glance..

1

Client:
United States Department of Agriculture

2

Location:
Ritchie County, WV

3

Completion Date:
Design Complete
Construction TBD

4

Size:
Multiple Projects

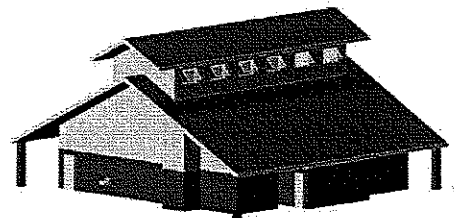
5

Construction Cost:
Estimated \$12 million

6

Project Relevance:

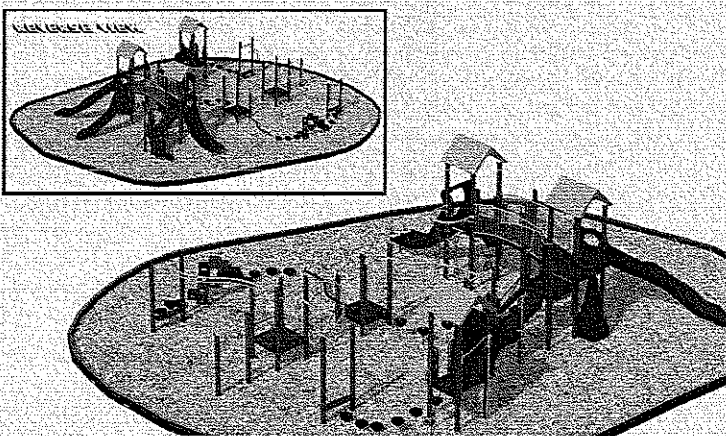
- Collaboration with Federal entities
- Recreational Trails
- Horseback Riding Trails
- Recreational Facilities
- Administrative Areas
- Track and Field Areas



Recreation Case Studies

Project Description

**North Fork Hughes River Recreational Design
Ritchie County, WV**



At A Glance...

- 1 **Client:**
United States Department
of Agriculture
- 2 **Location:**
Ritchie County, WV
- 3 **Completion Date:**
Design Complete
Construction TBD
- 4 **Size:**
Multiple Projects
- 5 **Construction Cost:**
Estimated \$12 million
- 6 **Project Relevance:**
 - Collaboration with
Federal entities
 - Recreational Trails
 - Horseback Riding
Trails
 - Recreational
Facilities
 - Administrative
Areas
 - Track and Field
Areas



Berkeley Springs Water Works

POTABLE WATER SYSTEM
2004

10/10/2004

Potable Water Case Studies

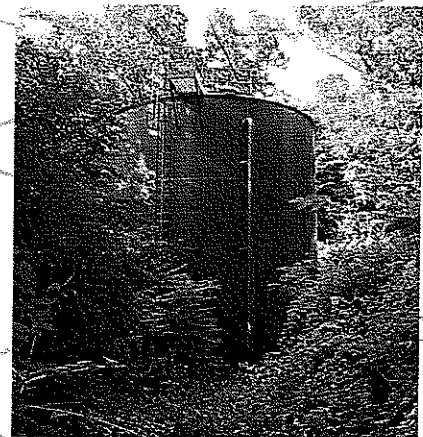
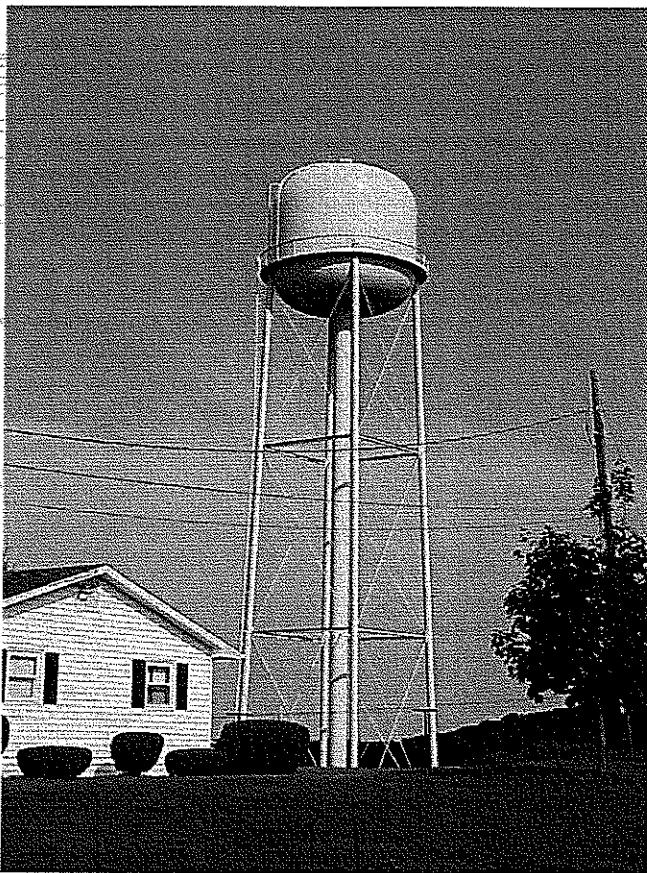
Project Description

Berkeley Springs Water Works Berkeley Springs, WV

Engineering work included a multiple phased project of improvements to the municipal water system. Contracts 1 and 2 included a 4,000 feet water main extension, renovations to the water booster station and construction of a 200,000 gallon elevated water storage tank. Contracts 3 and 4 included the construction of a 144,000-gallon water storage tank and the installation of a new altitude valve vault.

At A Glance...

- 1 Client:
Berkeley Springs Water Works
- 2 Location:
Berkeley Springs, WV
- 3 Completion Date:
2002
- 4 Size:
4,000 LF of Waterline
- 5 Construction Cost:
\$959,264
- 6 Project Relevance:
 - Water Main Extension
 - Elevated Storage Tank
 - Altitude Valve Vault
 - Welded Steel Ground Storage Tank



ARCHITECTS • ENGINEERS • SURVEYORS

Water Line Case Studies

Project Description

The Woods Golf Course Community Berkeley County, WV

Alpha Associates, Incorporated served as the engineer for the Woods Golf Course Community in Berkeley County. The project involved a study to map and determine the current and future operations of the water system.

The project included the following elements:

- Map and Model the existing water system
- Examine pressure differentials and determine alternatives to lessen the substantial variations
- Feasibility study of regulating pressure – many alternatives were provided
- Review existing water storage tanks; investigating capacity, location and integration into water system
- Code compliance with Federal and State water treatment and testing regulations and determine compliance of existing plants

The water system is comprised of:

- Two water treatment plants with a total of 865,000 gpd
- Finish water storage with a total capacity of 470,000 gallons
- Raw water storage in three 30,000 tanks
- Variable usage with peaks during weekends and holidays
- Nine mainline pressure regulating control valves (due to variation in terrain)
- 1100 customers (at time of report)

At A Glance...

- 1 Client:
Woods Homeowner's Association
- 2 Location:
Berkeley County, WV
- 3 Completion Date:
2003
- 4 Size:
N/A
- 5 Construction Cost:
Private
- 6 Project Relevance:
 - Mapping
 - Study
 - Water System



Water Case Studies

Project Description

City of Shepherdstown Shepherdstown, WV

This project involved the renovation of the main pump station, which included pumps, motors, valves and piping, master meter replacement and electronic control system. It also involved the construction of a new interceptor sewer, the majority of which runs through the campus of Shepherd College. The project was divided into several contracts, with all contracts now completed. The construction cost for the entire project was approximately \$220,000. The contracts required the pumping of the entire flow in the existing interceptor while the pump station was renovated.

At A Glance...

- 1 Client:
Shepherd College
- 2 Location:
Shepherdstown, WV
- 3 Completion Date:
1999
- 4 Size:
Multiple Projects
- 5 Construction Cost:
\$220,000
- 6 Project Relevance:
 - Sewer line installation



Higher Education/Civil Engineering

Project Description

West Virginia University Research Park Morgantown, WV

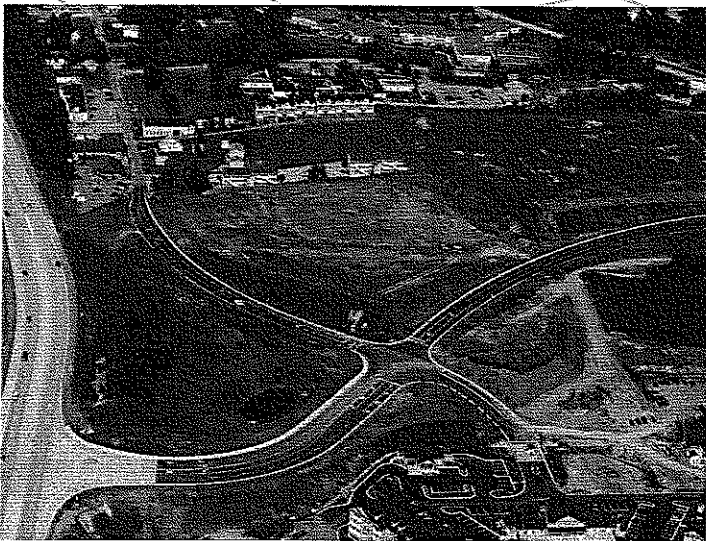
The WVU Research Park is located at the site of the former WVU Poultry Farm located on State Route 705 in Morgantown. The location was chosen to provide a separate research campus, while adjacent to other WVU campuses which allow a technological connection to be made with the remainder of the University system.

Over the past 10 years, congestion has continued to grow in Morgantown. Traffic congestion in Morgantown is most felt in the 705 Corridor, the home to the WVU Research Park. With more than 3000 additional vehicles projected in the area, traffic concerns were a priority for the Research Corporation, as well as the Design Team. Prior to the development of the WVU Research Park, the intersection of Maple Drive and Route 705 was virtually unusable during peak traffic hours with severe site distance problems.

With findings from a Traffic Impact Study, the Design Team began the design of two intersections, traffic control systems and 5250 feet of roadway. The project was designed to be bid and constructed in multiple phases. The multiple-bid packages were utilized to more efficiently construct the project, as well as meet funding availability. Phase 1 of construction included a mass earthwork package that moved nearly 233,000 cy of earth to prepare for the roadway bases and future building pads. Phase 2 of construction included all utilities for the Research Park and related traffic control systems as well as stormwater management of the park and roadways.

At A Glance...

- 1 Client:
West Virginia University
Research Corporation
- 2 Location:
Morgantown, WV
- 3 Completion Date:
2007
- 4 Size:
75 Acres
- 5 Construction Cost:
Approximately \$2.4
Million
- 6 Project Relevance:
 - Utility Installation and Relocation
 - Installation of Erosion and Sediment Control Features
 - Mass Grading
 - Storm Water Management



Recreation Case Studies

Project Description

**Mylan Park Recreational Complex Master Plan
Monongalia County Schools Foundation
Morgantown, WV**

Alpha Associates, Incorporated initially prepared a Master Plan for the development of Mylan Park Recreation Complex. The Master Plan took into consideration existing facilities, including Miracle Field and additional sports playing fields. Alpha prepared several iterations of the Master Plan, along with colored renderings. The Master Plan continues to adapt, based on funding for the project.

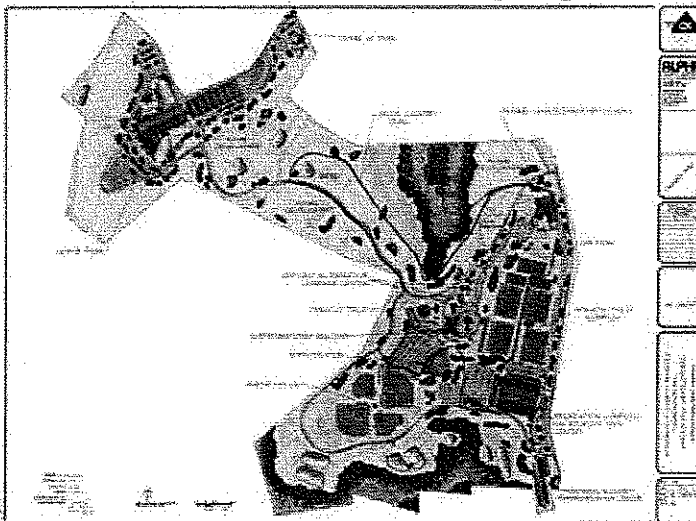
Subsequent to Alpha's Master Plan Development for the site, the Monongalia County Schools Foundation retained Alpha to do Schematic Building Design and Cost Estimates for a 168,000-square foot Recreational Facility in Morgantown.

Facilities to be included are:

- Exposition, meeting halls and dining facilities
- Soccer Fields
- Indoor Playing Surfaces
- Running track
- Indoor Olympic-size swimming pool
- Indoor Ice-Rink
- Support Spaces

At A Glance..

- 1 Client:
Monongalia County
Schools Foundation
- 2 Location:
Morgantown, WV
- 3 Completion Date:
Multiple Projects
- 4 Size:
Multiple Projects
- 5 Construction Cost:
To Be Determined
- 6 Project Relevance:
 - Architectural Design
 - Recreational Facility
 - Gymnasium
 - Swimming Pool
 - Wellness Areas
 - Locker Area
 - Various Support Areas





RICHARD A. COLEBANK, PE, PS
PRESIDENT AND COO
CIVIL ENGINEER
rcolebank@alphaaec.com

SUMMARY

Mr. Colebank is President and Chief Operating Officer of Alpha. Mr. Colebank 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 West Virginia University, City of Morgantown, The West Virginia Division of Highways, WVU Foundation and the Morgantown Municipal Airport, as well as numerous 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

PROFESSIONAL HIGHLIGHTS

Project Management:

- WVU Research Park; Morgantown, WV
- Federal Bureau of Prison Hazelton Medium Security Prison; Hazelton, WV
- West Virginia Medal of Honor Recipients Plaza; Hazelton, WV
- West Virginia Division of Highways I-77 Welcome Center; Williamstown, WV
- Ices Ferry Bridge; Morgantown, WV
- Monongalia General Hospital Expansion; Morgantown, WV
- Monongalia General Hospital Access Road; Morgantown, WV
- Airport Access Road; Morgantown, WV

Indefinite Delivery/Indefinite Quantity Contracts:

- Morgantown Municipal Airport Open End Contract; Morgantown, WV
- West Virginia Division of Highways Open End Contract; State of WV
- National Energy Technology Laboratories; Morgantown, WV
- West Virginia University Open End Contract; State of WV



RICHARD A. COLEBANK, PE, PS
PRESIDENT AND COO
CIVIL ENGINEER
rcolebank@alphaaec.com

EMPLOYMENT HISTORY

PRIVATE INDUSTRY: 1985 – Present Alpha Associates, Incorporated
1983 – 1985 Charles Townes and Associates, P.C.

CORPS OF ENGINEERS: 1983 US Army Corps of Engineers

EDUCATION

GRADUATE: West Virginia University
Masters – Business Administration; 1999

UNDERGRADUATE: West Virginia University
BS – Civil Engineering; 1982

QUALIFICATIONS

LICENSE: Professional Engineer:
West Virginia, Pennsylvania, Maryland, Virginia,
Professional Surveyor:
West Virginia
Certified Private Pilot

AFFILIATIONS

PROFESSIONAL: Former NSPE/PEPP Governor of WV
ACEC/WV; Former President and Current National Director

CIVIC: University High School Foundation; Charter Member; Current
President
Morgantown Area Chamber of Commerce; Past Chairman
Monongalia County MPO Technical Advisory Committee;
Member
Morgantown Area Economic Partnership; Member
University High School Athletic Field Committee





RICHARD W. KLEIN, PE, PS
CHAIRMAN AND CEO
CIVIL ENGINEER
rklein@alphaaec.com

SUMMARY

Mr. Klein, in addition to Chairman and CEO, serves as Regional Manager and Civil Engineer of our Martinsburg Office. He has more than 35 years of experience in Civil Engineering Design, Construction Phase Services, Project Management and Operations Management. During the past nineteen years, Mr. Klein worked on numerous projects in the Eastern Panhandle including clients such as the Cities of Shepherdstown and Berkeley Springs; Public Service Districts in Berkeley County and Warm Springs; industries such as Halltown Paperboard and Millville Quarry and major developments including Liberty Business Park, Coast Guard Operations Systems Center and the Eastern Management Development Center.

PROFILE

Broad-based responsibilities in the following areas:

- Municipal Engineering
- Site Planning
- Storm Water Management Engineering
- Water Distribution Systems
- Waste Water Collection and Treatment
- Eastern Regional Office Manager
- New Client Development

PROFESSIONAL HIGHLIGHTS

Civil Engineering Projects:

- Harpers ferry/Bolivar PSD; Design of Improvements to the Wastewater Treatment Plant
- Bradstone-Shenandoah Casting Plant Site Plan
- TB&H Ready-Mix Concrete Plant Site Plan
- The Woods Home Owners Association Water System Analysis
- NPDES Permit Modification and Warehouse Building, Halltown Paperboard Company, Halltown, WV
- Shepherd College Interceptor Sewer; Shepherdstown, WV
- Martinsburg Roundhouse Site Design; Martinsburg, WV
- Cumberland Valley Railroad Depot; Martinsburg, WV
- Wastewater Treatment Plant Addition, Halltown Paperboard Company; Halltown, WV
- Renovation of Main Sewage Pump Station; Corporation of Shepherdstown, WV
- Elevated Storage Tank/Water Mainline Extension, Berkeley Springs Water; Berkeley Springs, WV
- United States Coast Guard, Additional Parking lots/New Guard House, Martinsburg, WV



RICHARD W. KLEIN, PE, PS
CHAIRMAN AND CEO
CIVIL ENGINEER
rklein@alphaaec.com

- Swift Transportation Truck Depot Site Plan
- Eastern Management Development Center; Shepherdstown, WV
- Water System Improvements, Phase 1, 2, and 3; Berkeley Springs, WV
- Rt. 522 South, Water and Sewer System Extensions; Morgan County, WV
- Colonial Hills Subdivision; Jefferson County, WV
- Quail Ridge Subdivision; Berkeley County, WV

EMPLOYMENT HISTORY

PRIVATE INDUSTRY: 1995 – Current Alpha Associates, Incorporated
1974 – 1995 Kelley, Gidley, Blair and Wolfe, Incorporated

EDUCATION

GRADUATE: University of Charleston
MBA - 1987

UNDERGRADUATE: West Virginia Institute of Technology
BS – Civil Engineering; 1973

QUALIFICATIONS

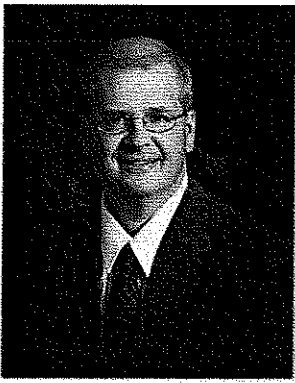
LICENSE: Civil Engineer:
West Virginia, Maryland
Professional Surveyor:
West Virginia

AFFILIATIONS

PROFESSIONAL: American Society of Civil Engineers
National Society of Professional Engineers
American Water Works Association
WV Manufacturer's Association
Water Pollution Control Federation

CIVIC: Main Street Martinsburg, Member
Berkeley County Historical Association, Member
Shepherdstown Rotary Club
Shepherdstown Interfaith Volunteer Caregivers
City of Martinsburg – Downtown Planning Committee





STEVEN V. BUCHANAN, PE, PS
PRINCIPAL
CIVIL ENGINEER
sbuchanan@alphaaec.com

SUMMARY

Mr. Buchanan is a Civil Engineer and Principal at Alpha Associates, Incorporated. He has more than 25 years of experience working in municipal engineering, storm water management, site planning, hydrologic and hydraulic analysis, wastewater collection systems design, water distribution systems design, booster station design, highway engineering, and traffic engineering.

PROFILE

Broad-based responsibilities in the following areas:

- Highway Design
- Municipal Engineering
- Wastewater Collection
- Storm Sewer System Design
- Passive Acid Mine Drainage Treatment
- Site Engineering
- Project Management

PROFESSIONAL HIGHLIGHTS

PROJECT MANAGER:

- Borough of Point Marion Engineer; Point Marion, PA
- Monongalia County Board of Education Sewage Treatment Plants; Monongalia County, WV
- North Fork Hughes River Recreational Facilities; Ritchie County, WV
- WVDOH Rest Areas Sewage Treatment Plants; Berkeley, Braxton and Lewis Counties, WV
- WVU Law School Parking Lot; Morgantown, WV
- Uvilla – Shepherdstown Road Project; Jefferson County, WV
- Wheatland Road Widening and Utility Relocation Project; Berkeley County, WV
- Clay - Battelle High School Sewer Line Extension, Monongalia County, WV
- Grade Road Design Study; Berkeley County, WV



STEVEN V. BUCHANAN, PE, PS

PRINCIPAL
CIVIL ENGINEER

sbuchanan@alphaaec.com

CIVIL ENGINEER:

- West Virginia Division of Highways I – 77 Welcome Center; Williamstown, WV
- West Virginia Medal of Honor Recipients Plaza; Preston County, WV
- South High Street Bridge; Morgantown, WV
- West Buckeye Acrow Bridge; Monongalia County, WV
- Elkins Bypass; Randolph County, WV

EMPLOYMENT HISTORY

PRIVATE INDUSTRY:	1998 – Present	Alpha Associates, Incorporated
	1989 – 1998	Widmer Engineering, Incorporated
	1986 – 1989	Wiley and Wilson, P.C.
	1984 – 1986	Greiner Engineering Sciences, Incorporated
	Summer – 1983	West Virginia Department of Transportation, Division of Highways

EDUCATION

UNDERGRADUATE: West Virginia University
BS – Civil Engineering; 1984

QUALIFICATIONS

LICENSE: Professional Engineer:
West Virginia, Pennsylvania, Maryland, Ohio
Professional Surveyor:
West Virginia





CHARLES B. BRANCH, PE
PRINCIPAL
CIVIL ENGINEER
cbranch@alphaaec.com

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/Storm Water Management Design
- Site Engineering
- Project Management

PROFESSIONAL HIGHLIGHTS

Educational Projects:

- WVU Parking Lot 8T Renovations; Morgantown, WV
- WVU Doll's Run Burn Room; Morgantown, WV
- WVU Alumni Center Parking Lot; Morgantown, WV
- WVU Evansdale Redevelopment; Morgantown, WV
- WVU Health Sciences Center Eastern Division; Martinsburg, WV

Highway Design:

- Blackshere Bridge; Mannington, WV
- I-68 Welcome Center; Hazelton, WV
- I-77 Information Center; Williamstown, WV
- Lewis County High School Bridge; Weston, WV
- Wyoming County Route 10 Relocation; Wyoming County, WV



CHARLES B. BRANCH, PE
PRINCIPAL
CIVIL ENGINEER
cbranch@alphaaec.com

Commercial Site Plans:

- West Virginia High Technology Consortium; Fairmont, WV
- Residence Inn; Morgantown, WV
- FFCU – Charles Pointe; Bridgeport, WV

EMPLOYMENT HISTORY

PRIVATE INDUSTRY: 1992 – Present Alpha Associates, Incorporated
1988 – 1992 Reimer, Muegge, & Associates, Inc.

EDUCATION

UNDERGRADUATE: Fairmont State College
BS – Architectural Engineering Technology 1988
West Virginia University
BS – Civil Engineering 2000

QUALIFICATIONS

LICENSE: Professional Engineer
West Virginia

AFFILIATIONS

CIVIC: Marion County Youth Soccer Association - Coach





CHARLES B. LUTTRELL, PE
PRINCIPAL
PROFESSIONAL ENGINEER
STRUCTURES
cluttrell@alphaaec.com

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 West Virginia University Constructed Facilities Center. Since coming to Alpha, Mr. Luttrell has had a significant involvement in the effort to begin utilizing modern composite materials in practical bridge applications. Two recent Alpha bridge projects have been designed using these innovative materials.

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:

- WVU Engineering Sciences Building East Wing Addition; Structural Design; Morgantown, WV
- WVU Alumni Center Structural Framing and Foundation Design; Morgantown, WV
- Hazel Ruby McQueen Amphitheater Roof; Morgantown, WV
- West Buckeye Bridge; Core, WV
- Washington High School; Charles Town, WV
- WVU Coliseum Asbestos Abatement Project (Scaffolding Design and Dome Structural Inspection); Morgantown, WV
- Morgantown Airport Air Rescue and Firefighting Building; Morgantown, WV
- WVU Coliseum Scoreboard Hoist Project; Morgantown, WV



CHARLES B. LUTTRELL, PE
PRINCIPAL
PROFESSIONAL ENGINEER
STRUCTURES
cluttrell@alphaaec.com

EMPLOYMENT HISTORY

PRIVATE INDUSTRY: 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

GRADUATE: West Virginia University
MS – Structural Engineering; 1995

UNDERGRADUATE: West Virginia University
BS – Civil Engineering; 1993

QUALIFICATIONS

LICENSE: Professional Engineer:
West Virginia, Maryland, Pennsylvania

AFFILIATIONS

PROFESSIONAL: West Virginia Society of Professional Engineers
National Society of Professional Engineers
Chi Epsilon; Member
American Concrete Institute; Member

RESEARCH EXPERIENCE

STRUCTURAL: Cold Formed Steel Deck Research

- Fastener failures
- Edge conditions/failures
- Buttoned overlap shear failures

Composite Cold Formed Steel and Concrete Deck Research

- Line load behavior/failures
- Concentrated load behavior/failures
- Web crippling
- Punch failures





BRADLEY D. MILLER, PS
PARTY SURVEY CHIEF
bmillier@alphaaec.com

SUMMARY

Mr. Miller has gained experience in all phases of surveying with numerous civil engineering and site development projects throughout West Virginia and Pennsylvania. These project surveys include highway construction, power plant construction, geodetic survey control, boundary, topographic, subdivision layout, waterline construction, sanitary sewer line construction and storm drainage structure layout.

PROFILE

Broad-based responsibilities in the following areas:

- Surveying Technology
- Surveying

PROFESSIONAL HIGHLIGHTS

SURVEYING:

- WVU Old College Park Apartments, Boundary Survey; Morgantown, WV
- WVU Lot 81 Improvement, Topographic Survey; Morgantown, WV
- WVU Rawley Avenue, Construction Easement Survey; Morgantown
- WVU Engineering Sciences Building, Topographic Survey; Morgantown, WV
- Chemtura Plant 3-D Pipe Survey; Morgantown, WV
- Power Plant Construction Surveying; Ft. Martin, WV
- Hart Field Airport – GPS Control Network, Boundary Survey and Various Construction Surveys in Monongalia County, WV.
- Augusta Project for McCoy 6, Boundary Survey; Morgantown, WV
- Greenbrier County Subdivision, Topographic and Boundary Survey; Lewisburg, WV
- Pittsburgh International Airport, GPS Control Network and Boundary Survey; Pittsburgh, PA
- PA Turnpike Commission – Findlay Connector, Stakeout-References and Road Alignments; Washington County and Allegheny County, PA
- Penn DOT – Rt. 22 Widening Reconstruction, Stakeout References and Road Alignments; Indiana County and Cambria County, PA



EMPLOYMENT HISTORY

PRIVATE INDUSTRY:	2006 – Current	Alpha Associates, Incorporated
	1999 – 2006	Monaloh Basin Engineers
	1998 – 1998	Nemacolin Woodlands Resort & Spa
	1996 – 1998	Mon-Valley Surveying

EDUCATION

UNDERGRADUATE: West Virginia University
BS – Business Management – Human Resources, 1994

Potomac State College of West Virginia University
AA – Business and Economics, 1992

QUALIFICATIONS

LICENSE: Professional Surveyor:
West Virginia

AFFILIATIONS

West Virginia Society of Professional Land Surveyors



SUMMARY

Mr. McClung comes to Alpha Associates, Inc. after spending ten years in public service. He was formerly the Marion County Planner and his most recent position was Assistant Planner for the City of Fairmont. During his tenure in municipal government Mr. McClung has worked on grant writing and administration, comprehensive planning and code enforcement. Prior to working in municipal government Mr. McClung worked in the field of historic preservation as a delineator for the Eberly College of Arts and Sciences Institute for the History of Technology and Industrial Archaeology at WVU.

PROFILE

Training and expertise in the following areas:

- Landscape Design
- Historic Landscape Preservation
- Delineation to HABS/HAER Standards
- Grant Writing
- Grant Administration
- Zoning Administration
- Comprehensive Planning
- Wetland Delineation

PROFESSIONAL HIGHLIGHTS

Delineator:

- Supervised field teams and office staff delineating historic industrial sites, processes, and structures to the Secretary of the Interior's Standards for Historic American Building Survey/Historic American Engineering Record.
- Supervised field team for the study and preservation of historic landscapes as a supplement to the Nomination of the Skyline Drive to the National Register of Historic Places.

Zoning Administrator:

- Collaborated with the City Planner, City Attorney, and City Planning Commission to draft and facilitate the adoption of a substantive amendment to the City of Fairmont Zoning Code.
- Collaborated with City Planner and Planning Commission of the substantive amendment of the City of Fairmont Zoning Map.
- Provide staff reports and technical assistance to the Fairmont Board of Zoning Appeals on Variance and Appeals hearings.
- Provide zoning assistance to builders, and general public on a daily basis.



Planner:

- Collaborated with the City Planner, and Planning Commission to draft and facilitate the adoption of the ten year update of the City of Fairmont Comprehensive Plan.
- Written applications, and administered Small Cities Block Grant, Department of Justice Grant, Governors Community Partnership, and Local Economic Development Assistance Grant, Transportation Enhancement, and Recreational Trail Grants

Landscape Designer:

- Designed the planting plan for the Alumni Drive Parking Lot in Morgantown WV.
- Developed site design including planting plan for the Clear Mountain Bank in Reedsville, WV.
- Designed planting plan for Monongalia General Hospital Medical Office Building parking lot in Morgantown, WV.
- Assisted with wetland delineation for Lamberts Run Passive Acid Mine Drainage Treatment System in Harrison County, WV.
- Assisted with wetland delineation for Morgantown Municipal Airport Access Road Project in Morgantown, WV.
- Assisted with pedestrian circulation study for three locations at West Virginia University in Morgantown, WV.
- Collaborated on planting plan of West Virginia University Evansdale Campus Improvement Project in Morgantown, WV.

EMPLOYMENT HISTORY

PRIVATE INDUSTRY:

2008	Alpha Associates, Incorporated
2002-2008	City of Fairmont
1997-2002	Marion County Commission
1990-1997	IHTIA Eberly College of Arts and Sciences WVU
1989-1990	Landscapes Unlimited

EDUCATION

UNDERGRADUATE:

West Virginia University
 BS – Landscape Architecture; 1991

AFFILIATIONS

CIVIC:

Habitat for Humanity, Marion County Affiliate
 Board Vice President





**STEVENS
ENGINEERING**

P.O. Box 1945 New London, NH 03257
Tele: (603) 526-2493 Fax: (603) 526-2003

August 26, 2010

Kim Weaver
Marketing Coordinator
Alpha Associates, Incorporated
209 Prairie Avenue
Morgantown, WV 26501

Subject: Blackwater Falls State Park

Hello Kim:

Attached please find the information that you have requested regarding Stevens Engineering's qualifications and experience including: a Company Bio., a list of Selected Clients for the Mountain Resort Industry and my personal résumé. Stevens Engineering has designed many facilities that are similar to the proposed sledding hill at Blackwater Falls State Park and incorporate a means of uphill transportation and downhill sledding or snow tubing runs. Some of these projects include: Mount Cranmore Resort in New Hampshire, Stone Mountain Park in Georgia, Ober Gatlinberg Snow Tubing in Tennessee and Snow Park Niagara in New York. We are also experienced in working on projects at State, Federal and Municipal Parks including: Franconia Notch State Park in New Hampshire, Adirondack Park in New York, Laurel Mountain State Park in Pennsylvania, Green Mountain National Forrest in Vermont and Oglebay Family Park in West Virginia.

For many years Stevens Engineering has worked for the State of West Virginia Department of Natural Resources as a passenger ropeway consultant for its ski lifts and aerial tramways at Canaan Valley, Hawks Nest and Pipestem Resort State Parks. I am personally familiar with the Blackwater Falls sledding hill and have visited the site in April of this year to discuss possible replacement of the rope tow and hill improvements with Brad Leslie, P.E. of the West Virginia DNR. Stevens Engineering would be pleased to team-up with Alpha Associates for the purpose of designing improvements to the Blackwater Falls State Park sledding hill.

I hope that the information provided is sufficient for your purpose. Please let me know if you require anything further.

Kind Regards,
STEVENS ENGINEERING

Ross A. Stevens, P.E.



Stevens Engineering is recognized throughout North America for responsive planning and engineering design. With nearly 30 years of service to its clients, Stevens Engineering is an accomplished source for passenger ropeway engineering, planning and design of lift and trail systems, snow tubing park design and mountain surveying.

Lift relocation engineering and the design of upgrades and modifications to existing lift installations are technical specialties at the core of the firms' capabilities. Stevens Engineering frequently assists lift manufacturers with the design of new installations, major lift upgrades and lift profile surveying. Ski area clients often seek out the technical expertise and the knowledge of governing standards and regulations Stevens Engineering has to offer for assistance in preparing comprehensive and result-oriented bid specifications for future lift purchases and for expert witness representation.

Contact: Ross Stevens, P.E. 215 Sargent Road New London, New Hampshire 03257
Ph: 603-526-2493 Fax: 603-526-2003 email: steveng@tds.net
www.stevens-engineering.com



**STEVENS
ENGINEERING**

**SELECTED CLIENTS
FOR THE
MOUNTAIN RESORT INDUSTRY**

Squaw Valley - CA
CNL Lifestyles, LLC - FLA
Arrowhead Ski Area - NH
Mount Isenglass Snow Park - NH
Attitash - NH
Cannon Mtn. - NH
Crotched Mountain, Francistown, NH
Dartmouth Skiway, NH
Gunstock, NH
Willis of New Hampshire
Kaser North America - Grantham, NH
Mount Cranmore - North Conway, NH
Mount Sunapee State Park, NH
Star Lifts, Sunapee, NH
State of NH - Dept. of Parks and Recreation
Proctor Academy, NH
Rowell Hill - NH
Moose Mountain - NH
Ragged Mountain - NH
Whaleback - Lebanon, NH
Bretton Woods - NH
Waterville Valley - Waterville Valley, NH
King Ridge - New London, NH
Snow Hill at Eastman - NH
Sno-engineering, Inc. - Littleton, NH
Poma of America - West Lebanon, NH
Ragged Mountain, NH
Tenney Mountain - New Hampshire
Mountain Creek - NJ
Hidden Valley - NJ
Ober Gatlinberg, TN
Burke Mtn. - VT
Round Top, VT
Bolton Valley, VT
Stratton Mountain - VT
Mount Snow - VT
Smugglers Resort - VT
Haystack, VT
Mount Mansfield Resort - Stowe, VT
Round Top, VT
Sugarbush Resort - Warren, VT
Mad River Glen - Fayston, VT
Magic Mountain, VT
Jay Peak Resort - Jay, VT
Middlebury Snow Bowl - Middlebury, VT
Bear Creek - VT
Wachusett Mountain - Princeton, MA
Otis Ridge - MA
Ski Bradford - MA

Nashoba Valley - MA
Amesbury Sports Park - Amesbury, MA
Blue Hills Ski Area - Canton, MA
Conservation Tourism, LTD - MA
Aon-Reed Stenhouse - ON
Searchmont - ON
Horseshoe Valley - ON
Craigleith Ski Club - ON
Cassels Brock & Blackwell - ON
Dale Intermediaries Ltd. - Toronto, ON
Hidden Valley Highlands Ski Club - ON
Hughes, Amys - Toronto, ON
Zurich Canada - Toronto, ON
Snow Valley - Barrie, ON
Berthoud Pass, CO
Breckenridge, CO
Howelson Hill, CO
Jenlynn International, Inc. - Boulder, CO
Stadeli USA - Boulder, CO
Doppelmayr USA - Golden, CO
Poma of America - CO
Ski Snowstar - Ill
Sun Valley Company - Idaho
Mt. Crescent - Iowa
Sleepy Hollow Sports Park - Iowa
Norway Mountain - MI
Ski Brule - MI
Mt. Bohemia, MI
Porcupine Mountain - MI
U.S. Gypsum, MI
Whiteface - Olympic Regional Development
Authority - Wilmington, NY
Catamount - NY
Mount Peter, NY
Gore Mountain - NY
Partek Enterprises, Inc. - Pine Island, NY
USMA, West Point - NY
Big Tupper - NY
Snow Park Niagara - NY
Scotch Valley, NY
Hunt Hollow, NY
Ski Windham - NY
Royal Mtn. - NY
Belleayre Ski Center - NY
Whitetail Ski Company - Mercersburg, PA
Laurel Mountain State Park - PA
Boyce Park Ski Area - Pittsburg, PA
Willowbrook - PA
Ski Big Bear - PA



**SELECTED CLIENTS
FOR THE
MOUNTAIN RESORT INDUSTRY**

**Framar, Inc., PA
Montage Ski Area - PA
Pinecrest Resorts - PA
Framar, Inc - PA
Ski Roundtop - PA
Rustler Lodge - Alta, Utah**

**Bruckschlogl GES.M.B.H - Austria
Winter Park - Wisconsin
Rib Mountain - Wisconsin
Hermon Mountain - Maine
Oxford Plains Snowtubing, Maine
Sugarloaf USA - Maine
Camden Snow Bowl - Maine
Mars Hill - Maine
Shawnee Peak - Maine
Saddleback - Maine
Sports Parks of Maine
Shawnee Peak - Maine
Sunday River - Maine
Eaton Mountain - Maine
Stone Mountain Park - GA
Ober Gatlinburg - TN
Garaventa, CTEC - Utah
Division of Parks and Recreation -
Commonwealth of WV
Canaan Valley - WV
Oglebay Family Resort - WV
The Chapman Technical Group - WV
Snowshoe Mountain Resort - WV
Mount Ashwabay - WI
Dosel, S.A. - Costa Rica
Rain Forest Trams - Costa Rica
Rain Forest Trams, LTD - Dominica
Poley Mountain - New Brunswick
Mount Southington - CT
Yawgoo Valley - CT
Brandywine - Ohio**



STEVENS ENGINEERING

P.O. Box 1945 New London, NH 03257
Tele: (603) 526-2493 Fax: (603) 526-2003

PROFESSIONAL PROFILE

Ross A. Stevens, P.E., President, STEVENS ENGINEERING
215 Sargent Road
P.O. Box 1945
New London, NH 03257

SPECIALIZED PROFESSIONAL COMPETENCE

Passenger Ropeways:	Planning, Engineering Design, Analysis, Inspection, Relocation Engineering, Upgrades, Modifications, Due Diligence Surveys, Dynamic Testing, Maintenance Consulting, Accident Investigation, Profile Surveying, Construction Engineering
Aerial Ropeways	
Surface Lifts	
Conveyors	
Snow Tubing Parks:	Planning & Engineering Design, Terrain Dynamics Evaluation
Civil Engineering:	Site Planning, Engineering Design, Surveying, Permitting
Structural Engineering:	Engineering Design, Analysis, Inspection

PROFESSIONAL BACKGROUND

Registered Professional Engineer and Qualified Tramway Engineer in: Maine, Maryland
New Hampshire, Vermont, Connecticut, Massachusetts,
New York, Pennsylvania, Michigan, Utah,
Wisconsin, New Jersey, Colorado, Idaho, Iowa, Tennessee,
West Virginia, Wisconsin, Ontario, New Brunswick

Bachelor of Science Degree in Civil Engineering University of Massachusetts, Amherst - 1974
Entered Profession in 1974

AFFILIATIONS

NATIONAL TRAMWAY STANDARDS BOARD – Member from 2000 - 2006

AMERICAN NATIONAL STANDARDS INSTITUTE - ASC B77 Accredited
Standards Committee - American National Standard for Passenger Tramways,
Committee Member

OITAF-NACS - International Organization for Transportation by Rope, North
American Continental Section, Member

NSAA - National Ski Areas Association, Member

OSRA - Ontario Ski Resorts Association, TSSA/OSRA Technical Advisory Committee

SENH - Structural Engineers of New Hampshire, Member

State of New Hampshire, Governor's Office of Emergency Management - ACT-20
Post-Earthquake Building Safety Evaluation Engineer

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



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget: <i>\$1,650K (2000)</i>
MEP Budget: <i>\$1,200K (2000)</i>
Facility Area: <i>Approx. 3,000 sq. ft.</i>
Services Provided: <i>Mechanical</i>
Project Status: <i>Bidding</i>
Project Completion Date: <i>May 2000</i>

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 which could not be remotely located is installed behind a masonry wall which incorporates the same stone as the lodge. A new chiller 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.

REFERENCE:

Brad Leslie PE, WV Department of Natural Resources
State Capital Complex Building #3
Charleston, WV
304-558-2775

PROJECT: TAXIWAY C LIGHTING ISSUES

OWNER: Morgantown Municipal Airport, Morgantown, WV



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget: <i>NA</i>
MEP Budget: <i>NA</i>
Facility Area: <i>NA</i>
Services Provided: <i>Electrical Analysis and Installation Troubleshooting</i>
Project Status: <i>Complete</i>
Project Completion Date: <i>May 2005</i>

MEI was requested to review the installation of new lighting for the taxiway C extension project. The lighting had been in place for several months and would intermittently shut down. The equipment supplier had become unrepsonsive, insisting that the problem was in the new field wiring. After a thorough review and testing of the equipment installation, MEI worked with the contractor to demonstrate that the problem was internal to the constant current lightin power regulator, including identifying the failed component. MEI then worked with the equipment supplier factory to arrange for replacement components at no cost to the Owner. The system has performed without further problems for over two years.



PROJECT DESCRIPTION:

The Taxiway C extension project included the replacement of lighting and associated cabling on the existing taxiway and installation of new lights and signage on the taxiway extension. The extension eliminated the need for aircraft to back taxi to fully utilize runway 18/36 and increase ground operations safety.

REFERENCE:

Richard Colebank PE, Alpha Associates
209 Prairie Ave.
Morgantown, West Virginia 26505
304-296-8216

PROJECT: Willowdale Road Walkway Lighting

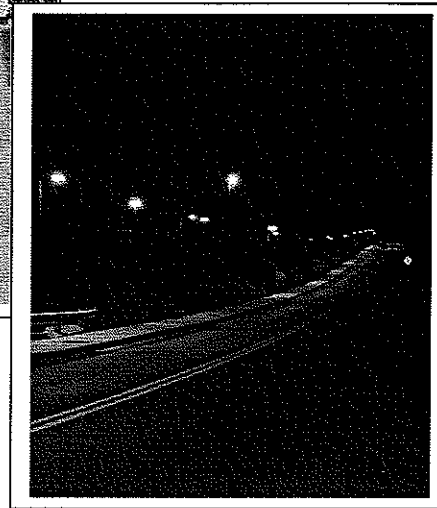
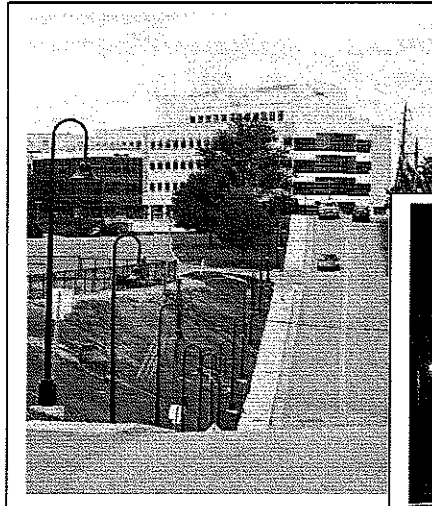
OWNER: West Virginia University, Morgantown, WV



MEP TECHNICAL HIGHLIGHTS:

Total Project Budget: \$185k
MEP Budget: \$175k
Facility Area: NA
Services Provided: <i>Lighting and Electrical</i>
Project Status: Complete
Project Completion Date: <i>August 2007</i>

MEI was requested to design the lighting and associated power systems to light the walkway extending down Willowdale Road adjacent to the WVU Stadium and Hospital parking areas. The project revolved around providing maximum lighting for student safety without creating a blinding hazard for drives or light pollution for the housing on the opposite side of the road. Additionally, the grade changes significantly, which could have increased the blinding effect on drivers. Extensive computer modeling was performed and the lighting levels slightly exceed the Owner's requirements. A variation of the University standard fixture was used which provided the same "look" during the day, but an effective safety lighting system as night.



PROJECT DESCRIPTION:

The project was implemented at the request of the University Student Government in response to concerns for student safety in the area. Both the vehicular and pedestrian traffic has increased in the area in recent years, increasing the likelihood of an incident or accident. The lighting system design has resulted in a safer environment for both drivers and pedestrians and a significant increase in the number of people using the area for recreational walking has been reported.



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

QUALIFICATIONS

Craig has more than 10 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.



Robert L Angus

Project Construction Representative
Miler Engineering, Inc.

EDUCATION

West Virginia University 1991-1996
Recreation & Parks Administration

Mon County Technical Education Center 1997-1998
Commercial/Residential HVAC Technology

CERTIFICATIONS

Licensed WV Contractor
Licensed Electrician
Licensed Master Plumber
Licensed HVAC Technician
Licensed Swimming Pool Operator

QUALIFICATIONS

Robert has more than 10 years experience in commercial facilities operation/management. Prior to working for MEI, Rob worked for the city of Morgantown, where he operated/maintained 2 commercial swimming pools, 2 waterslides, an Interactive Water Play Facility, and an Ice Rink.

Following Employment with the City of Morgantown, Rob founded Angus Contracting LLC in 2000. His company specialized in residential/commercial construction, HVAC, Electric, and Plumbing. Angus Contracting has completed projects including 10000 sq ft industrial buildings, Commercial Swimming Pool Repair/Retrofits, Commercial HVAC Retrofits involving multiple roof-top units, and all facets of residential construction.

During his employment with Miller Engineering Inc, Rob has performed construction administration on various projects involving all aspects of Mechanical Engineering/Construction totaling in excess of 15 million dollars.