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Header 1

List View

**General Information** [Contact](#) [Default Values](#) [Discount](#) [Document Information](#) [Clarification Request](#)

Procurement Folder: 1125709

Procurement Type: Central Contract - Fixed Amt

Vendor ID:

Legal Name: ALPHA ASSOCIATES INC

Alias/DBA:

Total Bid: \$0.00

Response Date:

Response Time:

Responded By User ID:

First Name:

Last Name:

Email:

Phone:

SO Doc Code: CEOI

SO Dept: 0310

SO Doc ID: DNR2300000002

Published Date: 11/7/22

Close Date: 11/29/22

Close Time: 13:30

Status: Closed

Solicitation Description:

Total of Header Attachments: 1

Total of All Attachments: 1



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

State of West Virginia  
Solicitation Response

**Proc Folder:** 1125709  
**Solicitation Description:** A&E - District 4 New Headquarters Office  
**Proc Type:** Central Contract - Fixed Amt

Solicitation Closes	Solicitation Response	Version
2022-11-29 13:30	SR 0310 ESR11292200000002536	1

**VENDOR**  
000000201753  
ALPHA ASSOCIATES INC

**Solicitation Number:** CEOI 0310 DNR2300000002  
**Total Bid:** 0  
**Response Date:** 2022-11-29  
**Response Time:** 09:32:10  
**Comments:**

**FOR INFORMATION CONTACT THE BUYER**  
Joseph E Hager III  
(304) 558-2306  
joseph.e.hageriii@wv.gov

<b>Vendor</b>		
<b>Signature X</b>	<b>FEIN#</b>	<b>DATE</b>

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

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Civil engineering				0.00

Comm Code	Manufacturer	Specification	Model #
81101500			

**Commodity Line Comments:**

**Extended Description:**

Design and Contract Administration of District 4 Headquarters and Storage Building New Construction.





## ***EXPRESSION OF INTEREST***

# **ARCHITECTURAL/ENGINEERING SERVICES**

# **A&E - DISTRICT 4 NEW HQ OFFICE**

**CEIO 0310 DNR2300000002**

**Public Notice Date: November 7, 2022**

**Submission Date: November 29, 2022**



### **CONTACT**

#### **Address**

Richard Colebank, President & COO  
Alpha Associates, Incorporated  
209 Prairie Ave.  
Morgantown, WV 26501



#### **Phone & Fax**

Phone: 304-296-8216  
Fax: 304-296-8245

#### **Online**

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

Website: [www.thinkALPHAfirst.com](http://www.thinkALPHAfirst.com)



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

State of West Virginia  
Centralized Expression of Interest

Proc Folder: 1125709

Doc Description: A&E - District 4 New Headquarters Office

Reason for Modification:

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2022-11-07	2022-11-29 13:30	CEOI 0310 DNR2300000002	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code:

Vendor Name : Alpha Associates, Incorporated

Address :

Street : 209 Prairie Ave

City : Morgantown

State : WV

Country : US

Zip : 26505

Principal Contact : Rick Colebank

Vendor Contact Phone: 304-296-8216

Extension: 102

FOR INFORMATION CONTACT THE BUYER

Joseph E Hager III  
(304) 558-2306  
joseph.e.hageriii@wv.gov

Vendor  
Signature X  FEIN#

DATE 11/29/2022

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

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Richard A. Colebank, Pres. #600  
(Address) 209 Prairie Avenue, Morgantown, WV 26501  
(Phone Number) / (Fax Number) 304-296-8216 / 304-296-8216  
(email address) rick.colebank@thinkalphafirst.com

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

Alpha Associates, Incorporated  
(Company)

[Signature]  
(Signature of Authorized Representative)

Richard A. Colebank, President #600  
(Printed Name and Title of Authorized Representative) (Date)

304-296-8216 / 304-296-8216  
(Phone Number) (Fax Number)

rick.colebank@thinkalphafirst.com  
(Email Address)

**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)*

- ☐ Addendum No. 1
- ☐ Addendum No. 2
- ☐ Addendum No. 3
- ☐ Addendum No. 4
- ☐ Addendum No. 5

- ☐ Addendum No. 6
- ☐ Addendum No. 7
- ☐ Addendum No. 8
- ☐ Addendum No. 9
- ☐ Addendum No. 10

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

Alpha Associates, Incorporated  
Company

[Signature]  
Authorized Signature

11-29-2022  
Date

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

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November 29, 2022

Department of Administration  
Purchasing Division  
2019 Washington St. E.  
Charleston, WV 25305

Attn: Joseph Hager

**RE: CEOI 0310 DNR2300000002 A&E – District 4 New HQ Office**

Dear Mr. Hager,

Alpha Associates, Incorporated and H.F. Lenz are pleased to submit our qualifications to provide architectural and engineering services for the new District 4 Headquarters Office. We have established a strong team for this important project. Alpha and H.F. Lenz's past experience with similar projects together over the last twenty years make us a perfect teaming partner for you on your new office project.

Since 1969, Alpha has partnered with numerous Federal, State, and local governments to provide architectural and engineering services for projects around West Virginia including for the Department of Natural Resources. We have accomplished many building designs including very complex designs with multiple buildings and different types of building materials. Previous work designed by Alpha ranges from small renovations of less than 200 square feet to large new builds including state office buildings and welcome centers.

#### **Design Team**

Alpha is a West Virginia owned and operated architectural and engineering design firm with locations in Morgantown and Martinsburg. Our 21-person professional staff includes architects, civil and structural engineers, surveyors, cost estimators, construction representatives, landscape designers, interior designers, and technicians. The personnel that will be dedicated to your project are highly qualified professionals and support staff with the technical expertise to meet and exceed expectations of this project. This project will be managed from Alpha's Corporate Office located in Morgantown, West Virginia.

### **Project Understanding**

The WV DNR is seeking architectural and engineering services for a new Office and Storage Building at District 4 Wildlife Resources/Law Enforcement located in Beckley, WV.

### **Summary**

The Alpha and H. F. Lenz Teams are looking forward to building a successful relationship with the WV DNR and the State of West Virginia by providing excellent service at affordable costs. Our dedicated team of professionals will make your project a priority. If you would like to further discuss this upcoming project, please contact me at (304) 296-8216 ext. 102.

Sincerely,

**ALPHA ASSOCIATES, INCORPORATED**



Richard A. Colebank, PE, PS  
President and COO  
[rick.colebank@thinkalphafirst.com](mailto:rick.colebank@thinkalphafirst.com)



# WELCOME TO

# ALPHA ASSOCIATES, INC.

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## FIRM PROFILE

### **Contract Role: Prime**

Architect & Engineer

### **Address**

209 Prairie Avenue  
Morgantown, West Virginia 26501

535 West King Street  
Martinsburg, West Virginia 25401

### **Number of Employees**

21

### **Principals**

Richard A. Colebank, PE, PS; President & COO  
Richard W. Klein, PE, PS; Chairman & CEO  
Charles B. Luttrell, PE; Senior Principal  
Charles B. Branch, PE; Senior Principal  
Matthew T. Echard, PE; Principal

### **Services**

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





#### **Johnstown Headquarters**

1407 Scalp Avenue  
Johnstown, PA 15904  
Phone: 814-269-9300  
Fax: 814-269-9301

#### **Pittsburgh Office**

1051 Brinton Road  
Pittsburgh, PA 15221  
Phone: 412-371-9073

#### **Lancaster Office**

120 North Pointe Boulevard  
Suite 203  
Lancaster, PA 17601  
Phone: 717-461-3916

#### **Ohio Office**

322 State Street  
Conneaut, OH 44030  
Phone: 440-599-7800

#### **Connecticut Office**

101 Centerpoint Drive  
Suite 237  
Middletown, CT 06457  
Phone: 860-316-2124



## **H.F. Lenz Company**

H.F. Lenz Company was established 1946 in its present form, under the name H.F. Lenz Company, R.E., and in 1953 the company was incorporated, as a Private Corporation, in Pennsylvania as H.F. Lenz Company. Our projects span the nation, with the heaviest concentration in the Northeast, and exceed \$530 million in MEP, Civil and Structural construction annually. Each market sector—corporate, government, health care, education, and industry—is served by a team of specialists who understand the unique needs of the clients they serve. Our staff consists of 160+ individuals, including 40 Licensed Professional Engineers and 15 LEED Accredited Professionals. Our headquarters is in Johnstown, Pennsylvania with branch offices in Pittsburgh and Lancaster, Pennsylvania, Conneaut, Ohio, and Middletown, Connecticut.

#### **DISCIPLINES/SERVICES OFFERED IN-HOUSE INCLUDE:**

- › Mechanical Engineering
- › Electrical Engineering
- › Data/Communications Engineering
- › Fire Protection / Life Safety Engineering
- › Structural Engineering
- › Civil Engineering
- › Surveying
- › GIS
- › Construction Phase Services
- › Commissioning and Training
- › 3D CADD with Full Visualization
- › Energy Modeling
- › Sustainable design/LEED Services
- › Building Information Modeling (BIM)

#### **PHILOSOPHY**

Two essential prerequisites lay the foundation for every H.F. Lenz Company project. First, we take the time to understand the client's business and how it operates. Second, we proactively involve the client in the development of appropriate solutions. In our role as partner, we help the client understand how well the available alternatives satisfy the project's own unique, prioritized set of objectives. A remarkable 90 percent of our work consists of repeat commissions from clients who appreciate our responsive, value-added service.

**Colleges and Universities** have comprised a major part of our professional practice throughout our 76 years of operation. Our Higher education experience includes clients such as the Pierpont Community College, Community College of Allegheny County, Penn Tech College, Warren County Career Center, Westmoreland County Community College, Penn Highlands Community College, West Virginia University, University of Pittsburgh, Carnegie Mellon University, Penn State University, The University of Pennsylvania, and Yale University. Typical projects include master planning and feasibility studies, all types of building renovations, building additions, infrastructure upgrades including telecommunications, energy audits and retrofits, site planning and development, and commissioning and construction monitoring services.

# 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 technological tools, dedicated principals and highly skilled staff members. Our work is diverse and includes clients in commercial, educational and government facilities, developers and private organizations.

Since 1969, Alpha has provided architectural and engineering design services throughout the state of West Virginia. We have worked with many local, state and federal government entities on numerous projects of varying sizes and types. Our team of engineering professionals has recent, relevant experience in the preparation of civil/site plans and infrastructure planning and design. In this proposal, you will find examples that showcase the Alpha Team's exceptional project experience on similar types of projects.

Alpha had the knowledge and understanding in design and construction to complete this project seamlessly, from the initial project inspections to the development of plans. The Alpha team will be your expert for this project.

Alpha's philosophy has always been to provide exemplary services to 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 everything 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, all work towards the goal of completing successful projects. Our principals are involved with the projects from the earliest stages right through the final completion and beyond. They will consistently update you on your project by using effective communication tools to manage the projects and all the involved parties. Our skilled staff of twenty one (21) architects, engineers, surveyors and administration personnel all work diligently towards producing drawings and specifications that will deliver our clients successful projects, completed on time and within budget.

Alpha has thrived for over 52 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.

THINK ALPHA FIRST.

# KEY PERSONNEL.

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## TO BE ASSIGNED TO YOUR PROJECT

All work performed for the New District 4 Headquarters Office will be managed out of Alpha's Morgantown office. In addition to your dedicated project team, Alpha's staff of 21 includes engineers, architects, architectural designers, technicians and support staff that are available to assist you with any potential project need.



Richard A. Colebank  
PE, President & COO  
Principal in Charge



Rebecca Key  
AIA, LEED AP Director  
of Architecture



Charles Branch PE,  
Senior Principal  
Senior Civil Engineer



Charles Luttrell  
PE, Senior Principal  
Senior Structural Engineer



Matthew Echard  
PE, Principal  
Structural Engineer

---

# MEET THE ALPHA TEAM.

## MANAGERS

Richard W. Klein  
PE, PS  
Chairman & CEO

Richard A. Colebank  
PE, PS  
President & COO

## ARCHITECTURE

Rebecca Key  
AIA-LEED-AP  
Director of  
Architecture

Casey Smith  
AIA Associate  
Architectural  
Designer

Todd Lewis  
AIA Associate  
Architectural  
Technician

Alex Hail  
Construction  
Administration

## CIVIL ENGINEERING

Charles Branch  
PE, Senior Principal  
Senior Civil Engineer

Bradley Casdorff  
PE, PS  
Civil Engineer

Tom Simpson  
PE  
Civil Engineer

David Costello Jr.  
PS  
Manager of Surveying

Julie Frazee  
Engineering  
Technician

Terry Higgins  
Field  
Representative

Kevin McClung  
Engineering  
Technician

Barbara Kerns  
Survey Crew

Tyler Collins  
Survey Crew

## STRUCTURAL ENGINEERING

Charles Luttrell  
PE, Senior Principal  
Senior Structural Engineer

Matthew Echard  
PE, Principal  
Structural Engineer

Cody Antoon  
Engineering  
Technician

## OFFICE ADMINISTRATION

Heather Fox  
Business Manager

Molly Miller  
Marketing Coordinator

Kim Coomler  
Administrative Assistant

# SCHEDULE AND BUDGET.

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Alpha Associates, Incorporated has an excellent track record of producing projects on time and within the Owner's budgets. Many A/E firms can claim the same successes, but the determining factor is the tools the firms utilize to achieve the budgets, both in regards to funds at the time. Alpha utilizes a number of tools, both traditional and modern to exceed our client's expectations.

A project schedule is a dynamic, ever changing entity. Your project schedule depends on many factors including:

- Preferred construction method
- Changes to project scope
- Unique construction elements

The Alpha Team had an excellent track record of meeting project deadlines. Alpha recently completed construction on a project in Morgantown that went from design to completion in just over 12 months. This project was completed for a private developer that had a construction cost in excess of \$20 million.

Successful Project management depends on consensus regarding work efforts, milestones and goals. The team had found the development of detailed work plans, which delineate tasks and deliverables for each project phase, in concert with the client and full project team, is the most effective means of establishing expectations about efforts required by the respective disciplines. In addition to guiding the efforts of the design team, the work plan sets forth specific time frames and decision points for Owner and user reviews, comments and approvals.

Developing an overall project schedule is a critical task that must take into account many factors: building type, owner's desire for occupancy, scope of work and level of documentation, whether contract(s) is bid or negotiates, available fee, and experiences on similar projects. Once the design process begins, a very detailed, realistic project schedule can be developed and communicated to all involved.

In a world where "time is money", the schedule of a project is almost as important as controlling the cost. Alpha works diligently to control the budget of the project. The best way to control the cost of a project is to avoid the "scope creep" that can occur.

Alpha's in house cost estimators, combined with an excellent relationship with contractors throughout the area will provide the client with the most accurate estimates early in the design process. The Alpha estimators begin at the schematic design phase of the project and develop a line item estimate of probable construction costs that can be carried through each of the project phases. At each phase the project estimate is updated to include a more detailed estimate in order that the accuracy can be enhanced. During these updated estimates, specific increases or decreases can be identified allowing the owner to make informed decisions moving forward on important budget issues for the project.

Many projects employ the use of alternatives to control the budget through obtaining actual contractor pricing during the bid process. This allows flexibility for the owner in determining the costs of portions of the project that may be optional and critical for budget control.



# CAPACITY AND SOFTWARE.

## OUR CAPABILITIES

Alpha Associates, Incorporated is prepared to commit staff and resources to your project. Alpha has the qualified and experienced personnel, administrative support, along with the production equipment and resources to ensure the successful completion of this project. We are confident in our ability to provide you with a committed and dependable design team. Our multidisciplinary design team is prepared to meet and exceed the expectations for your project by committing any resources necessary to meet the project schedule.

## USING THE LATEST SOFTWARE

The project team incorporates the latest computer and software capabilities required to complete the working drawings and specifications of this project. Our cost accounting system is top-of-the-line and we have the ability to differentiate fees according to task. We have secure e-mail and internet capability to allow efficient transfer of information between Alpha and the client. We currently have the latest editions of the following software:

- AutoCAD22
- REVIT (Editions up to 2022)
- Civil 3D
- RISA 3D
- RISA Floor
- RISA Foundation
- MathCAD
- DJI Phantom 4 RTK Drone
- Autodesk Suite
- Enercalc
- AutoTURN
- TopCON GR5 GPS System
- TopCON Total Station with Reflectorless Capabilities
- Carlson Surveyor & Data Collector



# RICHARD A. COLEBANK

PE,PS; PRESIDENT & COO

☎ 304-296-8216 | 800-640-8216

✉ rick.colebank@thinkalphafirst.com

## EMPLOYMENT HISTORY

1985-Current | Alpha Associates, Inc.

1983-1985 | Charles Townes & 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

American Red Cross- State Board

University High School Foundation; Charter Member; President

Morgantown Area Chamber of Commerce; Past Chairman

WVU College of Civil and Environmental Engineering Visiting Committee

WVU College of Business and Economics MBA Advisory Committee

## SUMMARY

Mr. Colebank is President and Chief Operating Officer at Alpha. He has been with Alpha Associates, Inc. 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 the Civil Engineering projects developed by 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 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 Principal:

- Morgantown Municipal Airport Access Road; Morgantown, WV
- Mon General Access Road; Morgantown, WV
- WVU Reedsville Farm Redevelopment; Reedsville, WV
- Monongalia General Hospital Access Road; Morgantown, WV
- WVDOH Martinsburg Train Station Corridor Streetscape; Martinsburg, WV
- WV State Office Building; Parkersburg, WV
- College of Physical Activity & Sports Science; Morgantown, WV
- WVDOH Open End Engineering Contract; WV
- WVDOH Deckers Creek Pedestrian Bridge; Morgantown, WV
- Clarksburg State Office Building; Clarksburg, WV
- Jane Lew Truck Stop; Jane Lew, WV
- Grant County Bank Addition & Renovation; Petersburg, WV
- South Berkeley Fire Station; Inwood, WV



# REBECCA KEY

AIA, LEED-AP; DIRECTOR OF ARCHITECTURE

☎ 304-296-8216 | 800-640-8216

✉ rebecca.key@thinkalphafirst.com

## EMPLOYMENT HISTORY

2000-Current | Alpha Associates, Inc.

1983-1999 | Alexander Key and Associates

1978-1983 | Webster Clothes;  
Director of Store Planning

## EDUCATION

University of Maryland  
Bachelor of Architecture; 1977

Maryland Institute College of Art  
Coursework in Furniture Design; 1986-1987

## QUALIFICATIONS

License: Registered Architect: Maryland,  
New York, Pennsylvania, Virginia,  
Washington DC, West Virginia

NCIDQ Certified (Interior Design)  
Leadership in Energy and Environmental  
Design Accredited Professional

Meet Standards of Secretary of the  
Interior for Historic Architecture

## AFFILIATIONS

American Institute of Architects  
West Virginia Society of Architects  
Fairmont, WV ICC Board of Appeal;  
Board Member  
U.S. Green Building Council  
AIA Liveable Communities  
Leadership Kanawha Valley  
Class of 2014

## SUMMARY

Ms. Key has worked in the architectural field for over 35 years. She serves as Project Architect/Project Manager for numerous architectural designs at Alpha Associates, Inc. Ms. Key is involved from the programmatic stages and schematic designs all the way through construction documents to construction administration. Having been with Alpha since 2000, Ms. Key has provided design services on numerous projects that have contributed to the ever-growing skyline of Morgantown, Charleston, Bridgeport, and other areas around the state.

## PROFILE

Broad-based responsibilities in the following areas:

- Architectural Design
- Interior Design and Space Planning
- Feasibility Studies
- Water Infiltration Analysis
- Historic Renovation
- Project Management

## PROFESSIONAL HIGHLIGHTS

### Education:

- Ridgedale Elementary; Morgantown, WV
- Mountaineer Middle School; Morgantown, WV
- Pineville Elementary; Pineville, WV
- Washington High School; Charles Town, WV

### Historic Renovations:

- Cass Scenic Railroad- Clubhouse Renovation; Cass, WV
- Berkeley Springs Bathhouse; Berkeley Springs, WV
- Hawks Nest State Park Picnic Pavillion; Anstead, WV
- Hawks Nest State Park CCC Museum; Anstead, WV

### Recreation:

- Ruby McQuain Amphitheater; Morgantown, WV
- North Fork Hughes River State Park; Ritchie County, WV

### Dormitory and Multi-Family

- Fairmont State University Prichard Hall Renovation; Fairmont, WV
- WVU Boreman Hall; Morgantown, WV
- Augusta Apartment Building; Morgantown, WV
- Grand Central Apartments

### Municipal & State Government

- WV State Office Building; Clarksburg, WV
- Mon County Family Court Renovation; Morgantown, WV
- Mon County Sheriff's Department; Morgantown, WV
- White Hall Municipal Building; White Hall, WV
- WV State Office Building; Parkersburg, WV





## EMPLOYMENT HISTORY

2016-Current | Alpha Associates, Inc.

2014-2016 | MSES Architects

2011-2014 | Blackwood Associates

2007-2009 | Vandalia Heritage Foundation

## EDUCATION

Boston Architectural College  
Master of Architecture

Fairmont State University  
Bachelor- Architecture  
2009

# CASEY SMITH

AIA ASSOC.; ARCHITECTURAL DESIGNER

☎ 304-296-8216 | 800-640-8216

✉ casey.smith@thinkalphafirst.com

## SUMMARY

Mr. Smith has been employed with Alpha Associates, Inc since 2016. He has worked on several architectural projects including multi-million dollar projects and public sector clients. Mr. Smith came to Alpha with an impressive background in educational, commercial, and local government facilities. He has offered assistance in project management, using his background to further improve the quality of each project he is involved with. Mr. Smith has been an incredible asset to Alpha Associates and proves to be an asset in each of his projects.

## PROFILE

Broad-based responsibilities in the following areas:

- Architectural/Structural Construction Drawings
- Construction Administration
- Project Management Assistance

## PROFESSIONAL HIGHLIGHTS

Construction Administration Projects:

- Cacapon State Park Lodge Renovation
- Los Mariachis New Restuarant; Morgantown, WV
- Freedom Ford Automotive Dealerships; Granville, WV
- Elkins Fordland; Elkins, WV
- Federal Group GSA VA Tenant Improvement Project
- Point Marion ADA Deck; Point Marion, PA
- Los Mariachis Renovation; Morgantown, WV
- WVU Hazel Ruby McQuain Education & Resource Center; Reedsville, WV
- Martinsburg Queen St. Underpass; Martinsburg, WV



# CHARLES B. BRANCH

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## PE; SENIOR PRINCIPAL & CIVIL ENGINEER

☎ 304-296-8216 | 800-640-8216

✉ [chuck.branch@thinkalphafirst.com](mailto:chuck.branch@thinkalphafirst.com)

### EMPLOYMENT HISTORY

1992-Current | Alpha Associates, Inc.

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

### 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:

- Jane Lew Truck Stop; Jane Lew, WV
- Clarksburg State Office Building; Clarksburg, WV
- WVU Reedsville Farm Redevelopment; Morgantown, WV
- Freedom Automotive Group Dealerships; Morgantown, WV
- Freedom Kia; Clarksburg, WV
- 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 Health Sciences Center Eastern Division; Martinsburg, WV
- WVDOH Martinsburg Train Station Corridor Streetscape; Martinsburg, WV
- WVDOH I-77 Welcome Center; Williamstown, WV
- WV Medal of Honor Recipients Plaza; Hazleton, WV
- Lewis County High School Bridge; Weston, WV
- Wyoming County Route 10 Relocation; Wyoming County, WV
- Fairmont Federal Credit Union; Bridgeport, WV
- Queen St Underpass; Martinsburg, WV
- Martinsburg Little League Fields; Martinsburg, WV



## EMPLOYMENT HISTORY

2004-Current | Alpha Associates, Inc.

1979-2004 | Triad Engineering, Inc.

## 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

Certified FAA Part 107 Remote Pilot

## AFFILIATIONS

WV Society of Professional Engineers National

Society of Professional Engineers WVSPS-

Mountain Regional Chapter; President Aircraft

Owners and Pilots Association; Member

# BRADLEY CASDORPH

## PE,PS; CIVIL ENGINEER



304-296-8216 | 800-640-8216



brad.casdorph@thinkalphafirst.com

## SUMMARY

Mr. Casdorph joined the Alpha Associates, Inc. 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 , including the use of Aerial Drone Technology

## PROFESSIONAL HIGHLIGHTS

### Civil Engineering:

WVDOT Arnettsville Bridge Replacement; Monongalia County, WV

WV DOT Open Engineering Open End Contract; WV

WVDOT Deckers Creek Pedestrian Bridge; Morgantown, WV

Freedom Automotive Three Dealerships; Morgantown, WV

Freedom Kia Clarksburg; Clarksburg, WV

Morgantown Municipal Airport Access Road; Morgantown, WV

Mon General Hospital Access Road; Morgantown, WV

WVU - Lot 81 Parking Area Improvements; Morgantown, WV

McKee Crossing - 120 Acre Subdivision; Martinsburg, WV

WVU Reedsville Farm Redevelopment; Reedsville, WV

Mon General Hospital - East Parking Area; Morgantown, WV

Jane Lew Truck Stop; Jane Lew, WV

Point Marion Borough; Point Marion, PA

Clarksburg State Office Building; Clarksburg, WV

WVU College of Physical Activity & Sports Sciences; Morgantown, WV

VA Parking Lot SWM; Shepherdstown, WV

Arcland RV Parking Lot SWM; Charles Town, WV

### Surveying:

WVDOT Arnettsville Bridge Replacement; Monongalia County, WV

Morgantown Municipal Airport Access Road; Morgantown, WV

Mon General Hospital Access Road; Morgantown, WV

Freedom Automotive Three Dealerships; Morgantown, WV

Freedom Kia Clarksburg; Clarksburg, WV



## EMPLOYMENT HISTORY

1996-Current | Alpha Associates, Inc.  
1995-1996 | Larry D. Luttrell, PE, PhD  
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  
Buttressed Overlap Shear Failures  
  
Composite Cold Formed Steel and  
Concrete Deck  
Line Load Behavior/Failures  
Concentrated Load Behavior/Failures  
Web Crippling  
Punch Failures

# CHARLES B. LUTTRELL

## PE; SR. PRINCIPAL & STRUCTURAL ENGINEER

☎ 304-296-8216 | 800-640-8216

✉ charlie.luttrell@thinkalphafirst.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 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:

- 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

Structural Engineer:

- Freedom Automotive Group 3 Dealerships; Morgantown, WV
- Hazel Ruby McQuain Equine Education & Resource Center; WVU
- WVDOH Arnettsville Replacement Bridge; Morgantown, WV
- Clarksburg State Office Building; Clarksburg, WV
- Grant County Bank Addition & Renovation; Petersburg, WV
- South Berkeley Fire Station; Inwood, WV
- Alumni Center Structural Framing and Foundation; WVU
- Engineering Science Building, East Wing Addition; WVU
- Hazel Ruby McQuain Amphitheater Roof; Morgantown, WV
- Shepherd University Pedestrian Underpass; Shepherdstown, WV
- Washington High School; Charles Town, WV
- WVU Coliseum Structural Inspection; Morgantown, WV
- Alderson Broaddus College, Rex Pyles Arena Deck; Phillippi, WV
- Monongalia County Sheriff's Building; Morgantown, WV
- South High Street Bridge; Morgantown, WV
- Ices Ferry Bridge; Morgantown, WV
- Matthews Foundry Structural Evaluation; Martinsburg, WV
- Martinsburg Little League Fields; Martinsburg, WV
- Martinsburg WWTP; Martinsburg, WV
- Queen St. Underpass; Martinsburg, WV
- Winchester & Western RR Rt. 11 Bridge; Martinsburg, WV



## EMPLOYMENT HISTORY

2016-Current | Alpha Associates, Inc.  
2010-2015 | Echard ingenieurBüro  
2006-2009 | Büro Happold Consulting Engineers  
2003-2006 | Risa Technologies, Inc.  
200-2003 | Zaldastani Associates, Inc.

## EDUCATION

Massachusetts Institute of Technology  
Masters- Engineering & Environmental  
Mechanics, 2002

West Virginia University  
Bachelors of Science- 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)

## 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 Guimaraes, 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

# MATTHEW T. ECHARD

## PE; PRINCIPAL & STRUCTURAL ENGINEER



304-296-8216 | 800-640-8216  
matthew.echard@thinkalphafirst.com

## SUMMARY

Mr. Echard joined Alpha Associates, Inc. in early 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 Mid-West, Mr. Echard returned to West Virginia to provide world-class service in a historically unreserved region while making positive contributions to his home state. Mr. Echard places a large value on collaborative work process, believing that a building's far form and function are derived from many contexts. Mr. Echard's office is located in the corporate office in Morgantown, WV.

## PROFILE

Broad-based responsibilities in the following areas:

- Structural Engineering & Forensics
- Design Management
- Construction Optimization
- New Business & Client Development

Current research area(s):

- Next-generation sustainability strategies in design and construction

## PROFESSIONAL HIGHLIGHTS

Pedestrian Bridges:

- Coopers Rock Overlook Bridge Replacement; Monongalia Co., WV
- Deckers Creek Rail-Trail, Greenmont Pedestrian Bridge; Morgantown, WV
- Harvard Allston Science Complex (HASC); *Harvard University*, Allston, Boston, MA\*  
- Pedestrian Bridges & Wintergardens

Buildings:

- Burj Daman (60 stories); DIFC, Dubai, UAE\*
- Columbus Center Parcel 16 (34 stories); Boston, MA\*
- Continuities of the Incomplete, *Museum of Modern Art (MOMA)*; Los Angeles, CA\*
- Falmouth High School Renovations and New Gymnasium; Falmouth, MA\*
- HASC Building 1 (8 stories); *Harvard University*, Allston, Boston, MA\*
- Herb Alpert Educational Village, Capshaw-Spielberg Center for Educational Justice, Performing Arts and Leadership Center; Santa Monica, CA\*
- Hotel America (55 stories); Dubai, UAE\*
- King Abdullah Financial District (KAFFD); Riyadh, Saudi Arabia\*  
Parcels 2.09, 2.14 (26 stories), and 4.07/4.08 (40 stories)
- Logan Airport Central Parking Garage and Expansion; Boston, MA\*
- ND Paper Hydrapulper Expansion, Fairmont, WV
- TAJ Mall; Abdoun, Amman, Jordan\*
- UCLA Sproul Hall, Cove & Landing Residences (8 stories); Westwood, Los Angeles, CA\*
- WVDOH District 7 Multi-purpose and Lab Buildings; Roanoke, WV

\*project experience at previous firm





## Joel C. Shumaker, P.E., CBIE, LEED AP

*Principal-in-Charge of MEP/FP Systems Engineering*

As a Principal of H.F. Lenz Company, Mr. Shumaker is responsible for client contact, project scheduling, preparation of reports and cost estimates, coordination and supervision of project design teams, and other project management functions. Mr. Shumaker is experienced in the design of electrical systems for both new buildings and building retrofits for educational, health care, commercial, government, industrial, residential, and utility-related facilities. He is experienced in the design of power distribution systems; emergency power systems and monitoring; uninterruptible power supplies; lighting and emergency lighting systems; fire alarm systems; nurse call; security; sound; and telephone systems.

### EDUCATION

Bachelor of Science, Electrical Engineering Technology 1993,  
University of Pittsburgh at Johnstown

### EXPERIENCE

H.F. Lenz Company 1985-Present

### PROFESSIONAL REGISTRATION / CERTIFICATION

Licensed Professional Engineer in  
Pennsylvania, Connecticut,  
Delaware, Maryland, New York,  
Vermont, Virginia and West Virginia

### PROFESSIONAL AFFILIATIONS

Pennsylvania Society of Professional  
Engineers, Johnstown Chapter  
Secretary • National Society of  
Professional Engineers • Keystone  
Chapter of Association of Physical  
Plant Administrators

### PROJECT EXPERIENCE

#### Pierpont Community College - Fairmont, West Virginia

- › Building evaluation report

#### Community College of Allegheny County - Pittsburgh, Pennsylvania

- › Renovation of historic West Hall, including a variety of shop spaces
- › Student Services Center renovation including computer lab
- › Campus Master Plan and Space planning for the Arts
- › Renovations to the Physical Education Building
- › Learning Resource Center Library
- › 45,000 sq.ft. Physical Education Addition

#### University of Pittsburgh – Pittsburgh, Pennsylvania

- › Renovation of 400,000 sq.ft. Benedum Hall, Swanson School of Engineering, including a new 600 kW standby generator to provide backup power for the researcher's needs

#### Mylan Pharmaceuticals - Morgantown, West Virginia

- › Multiple projects involving design of laboratories, clean rooms, warehouses, offices and storage space

#### CDC/NIOSH - Morgantown, West Virginia and Pittsburgh, Pennsylvania

- › Multiple laboratory renovation projects and infrastructure studies and upgrades under consecutive term contracts

#### U.S. Department of Agriculture - Morgantown, West Virginia

- › Tenant-fit out of approximately 40,000 sq.ft. of a GSA-leased building - LEED Certified

#### University of Pittsburgh at Johnstown - Johnstown, Pennsylvania

- › Engineering and Science Building addition and renovation



## John M. Weiland, P.E., CEM, LEED AP

*Project Engineer/Mechanical Engineer*

Mr. Weiland specializes in the design of HVAC systems for colleges and universities and healthcare facilities. His responsibilities include client contact, project scheduling, preparation of reports and cost estimates, coordination and supervision of project design teams and other projects management functions. His duties include design calculations, equipment selection, schematic and construction document design, specification writing, and life cycle cost analyses.

### EDUCATION

Bachelor of Architectural  
Engineering, 2002, Pennsylvania  
State University

### EXPERIENCE

H.F. Lenz Company 2002-Present

### PROFESSIONAL REGISTRATION / CERTIFICATION

Licensed Professional Engineer in  
Pennsylvania • Certified Energy  
Manager • LEED Accredited  
Professional

### PROFESSIONAL AFFILIATIONS

ASHRAE – Johnstown, PA Chapter

### PROJECT EXPERIENCE

#### Community College of Allegheny County - Pittsburgh, Pennsylvania

- › Renovation of historic West Hall, including a variety of shop spaces
- › Student Services Center renovation including computer lab
- › Campus Master Plan and Space planning for the Arts
- › Renovations to the Physical Education Building
- › Learning Resource Center Library
- › 45,000 sq.ft. Physical Education Addition

#### University of Pittsburgh – Pittsburgh, Pennsylvania

- › Renovation of 400,000 sq.ft. Benedum Hall, Swanson School of Engineering and new addition - LEED Gold

#### Mylan Pharmaceuticals - Morgantown, West Virginia

- › Multiple projects involving design of laboratories, clean rooms, warehouses, offices and storage space

#### CDC/NIOSH - Morgantown, West Virginia and Pittsburgh, Pennsylvania

- › Multiple laboratory renovation projects and infrastructure studies and upgrades under consecutive term contracts

#### St. Vincent College - Latrobe, Pennsylvania

- › Feasibility study and design services for the renovation and addition to the existing science complex, consisting of four buildings – LEED Gold

#### West Virginia University - Morgantown and Evansdale Campuses, West Virginia

- › Over 120 projects in the past 19 years

#### Williamsport School District - Williamsport, Pennsylvania

- › High School Renovation and New Vo-Tech Addition including a compressed air system, welding shop with welding exhaust systems and smoke eater units, wood shop, dust collector and air cleaners



## George A. McMillan IV, P.E.

*Electrical Engineer*

Mr. McMillan is the Director of Operations for our regional office located in Conneaut, Ohio and is responsible for overseeing his team on projects throughout the region. As a Project Engineer, he has coordinated all facets of design, including electrical, controls, HVAC, plumbing, fire protection, and life safety for a wide range of new and retrofit projects. As a Design Engineer, he is experienced in the design of power distribution systems, control systems, uninterruptible power supplies, lighting and emergency lighting systems, fire alarm systems, security, sound, and telephone systems. He is responsible for coordination with the client, the architect, regulatory agencies, and the engineering staff; project scheduling; and other project management functions.

### EDUCATION

Graduate Studies in Engineering Management, 1999-2003, Kennedy Western University

Bachelor of Science, Electrical Engineering Technology, 1996, University of Pittsburgh at Johnstown

### EXPERIENCE

H.F. Lenz Company 1994-Present •  
Dynamic Design Engineering 1990-1994

### PROFESSIONAL REGISTRATION / CERTIFICATION

Licensed Professional Engineer in Pennsylvania, Arizona, Colorado, Maine, North Dakota, New York, Ohio, Texas and Vermont

### PROFESSIONAL AFFILIATIONS

National Society of Professional Engineers and Pennsylvania Society of Professional Engineers • Named 2007 Young Engineer of the Year by the Pennsylvania Society of Professional Engineers (PSPE)

### PROJECT EXPERIENCE

#### Erie County Technical School - Erie, Pennsylvania

- › New 21,000 sq.ft. addition to the existing technical school and the engineering services for the \$34 million renovation and infrastructure upgrades for the existing facility, which was built in 1968. The technical academy services 11 school districts across the county

#### Warren County Career Center - Lebanon, Ohio

- › Complete renovation and new addition, including automotive trade shops, wood shop areas, culinary program area, accounting and nursing areas and a new building trades facility (separate building)

#### Yeager Airport - Charleston, West Virginia

- › \$1.2 million video surveillance and access control system upgrades for the existing Terminal and adjacent facilities

#### Erie International Airport - Erie, Pennsylvania

- › Multiple renovations and additions under term contract agreements
- › Infrastructure upgrades
- › TSA Renovations and Additions - multiple TSA renovations and additions including: administrative offices, regional offices, security system and equipment upgrades

#### Williamsport Regional Airport - Williamsport, Pennsylvania

- › New 29,500 square foot Passenger Terminal Building

#### Progressive Insurance Company - Locations throughout the U.S.

- › Project Engineer for multiple, approximately 20,000 sq.ft. Service Centers that include an office component and vehicle inspection area





## Frank T. Restly, E.I.T.

### *Electrical Designer*

Mr. Restly is experienced in the design of electrical systems for both new buildings and building retrofits for higher education, commercial, and governmental facilities. He is experienced in the design of power distribution systems, control systems, lighting and emergency lighting systems.

His duties also include coordination with regulatory agencies, equipment selection, coordination with other disciplines, checking of construction documents for quality assurance.

#### EDUCATION

Bachelor of Science, Electrical Engineering, 1995, University of Pittsburgh at Johnstown

#### EXPERIENCE

H.F. Lenz Company 2010-Present • Villi Electrical Group 2010-2009 • Augusta Engineering 2009-2006 • Tri County Electric 2006-1995

#### PROJECT EXPERIENCE

##### University of Pittsburgh - Pittsburgh, Pennsylvania

- › Phased renovation of Benedum Hall, a 400,000 sq.ft. high-rise building that contains classroom, research, wet lab, dry lab, computer lab and faculty offices for the University's Swanson School of Engineering - LEED Gold

##### Lock Haven University - Lock Haven, Pennsylvania

- › Study and design of an upgrade to the existing campus fiber optic infrastructure throughout the university's 200-acre campus

##### University of Pittsburgh at Johnstown - Johnstown, Pennsylvania

- › Engineering and Science Building renovations and addition

##### Yale University - New Haven, Connecticut

- › Renovation of the 52,000 sq.ft. Wright Nuclear Structure Laboratory

##### Shippensburg University - Shippensburg, Pennsylvania

- › Renovation of medium voltage and fiber optic campus distribution upgrades

##### Frostburg State University - Frostburg, Maryland

- › Replacement of medium voltage switches and cabling for seven campus buildings

##### Pennsylvania American Water (PAW) - Various Locations, Pennsylvania

- › **Bethel Park Operations Center Renovation** - Renovations to the existing building for use as an Operations Center in Pittsburgh, PA
- › **Warren Operations Center Renovation** - Renovations of an existing facility for use as an Operations Center in Warren, PA
- › **Uniontown Operations Center Renovation** - renovation of an existing building for use as an Operations Center in Uniontown, PA



## Lucas E. Shumaker, P.E., CPHD

*Mechanical Engineer*

Mr. Shumaker has several years of experience in the design of HVAC systems. His responsibilities have included design calculations, equipment selection, schematic and construction document design, specification writing, and life cycle cost analyses. His experience includes the design of mechanical systems for hospitals, educational facilities and office buildings.

### PROJECT EXPERIENCE

#### University of Connecticut - Storrs, Connecticut

- › IPB Fitouts (Fraunhofer, Group Space, Air Force) - fit-out of high-bay space to accommodate laboratory and offices, incorporating a flexible engineering lab design with stainless steel hazardous exhaust ductwork and fan set, supplemental chilled water cooling for bench and process stations, piping utility stations with access to high purity lab gases along with RO-DI piping

#### Yale University - New Haven, Connecticut

- › Green Chemistry Lab - HVAC and infrastructure planning to upgrade the building to modern laboratory standards. Electrical service upgrades from the utility company to 480 volts. Installation of an air-cooled chiller system to replace multiple small DX systems; Installation of new lab gas piping network, addition of fire protection to the building
- › Wright Nuclear Structure Laboratory renovation of 42,000 sq.ft. of Physics Laboratory and office space
- › B25 Data Center: replaced existing CRAC units, included upgrading the central chilled water plant
- › Central Campus Switch Room relocation and consolidation of the central telecom switch room, a critical telecom operation supporting approximately 100 buildings

#### SAIA - Multiple Locations throughout the U.S.

- › New trucking transfer and distribution facilities

#### Pennsylvania American Water (PAW) - Various Locations, Pennsylvania

- › **Bethel Park Operations Center Renovation** - Renovations to the existing building for use as an Operations Center in Pittsburgh, PA
- › **Warren Operations Center Renovation** - Renovations of an existing facility for use as an Operations Center in Warren, PA
- › **Uniontown Operations Center Renovation** - renovation of an existing building for use as an Operations Center in Uniontown, PA

### EDUCATION

Bachelor of Science, Mechanical Engineering Technology, 2012,  
University of Pittsburgh at Johnstown

### EXPERIENCE

H.F. Lenz Company 2012-Present

### PROFESSIONAL REGISTRATION / CERTIFICATION

Licensed Professional Engineer,  
Pennsylvania, Certified Passive  
House Designer (CPHD)

### PROFESSIONAL AFFILIATIONS

American Society of Heating,  
Refrigerating, and Air Conditioning  
Engineers (ASHRAE)



## Christopher A. Formica

*Plumbing/Fire Protection System Designer*

Mr. Formica has designed complete plumbing systems for hospitals, colleges, schools, office buildings, prisons, and laboratories. He is responsible for plumbing design, layout, specifications and calculations; selection and sizing of equipment; cost estimates; and site survey work. Mr. Formica coordinates the plumbing design with utility companies, with other trades, and with the Project Engineer and Project Architect; and is responsible for assembling complete and accurate plumbing bid documents which meet H.F. Lenz Company standards.

### EDUCATION

Associate in Architectural Design,  
1989, Pennsylvania Technical  
Institute

### EXPERIENCE

H.F. Lenz Company 1997 - Present  
Dynamic Design Company 1996  
Miller-Picking Corp. 1993 - 1995  
Dupont-Belcan. 1991-1993  
Simions Eastern. 1989-1991

### PROJECT EXPERIENCE

#### University of Pittsburgh - Pittsburgh, Pennsylvania

- › Phased renovation of Benedum Hall, a 400,000 sq.ft. high-rise building that contains classroom, research, wet lab, dry lab, computer lab and faculty offices for the University's Swanson School of Engineering - LEED Gold
- › New 42,000 sq.ft. Masscaro Center for Sustainable Innovation building housing wet and dry lab - LEED Gold

#### St. Vincent College - Latrobe, Pennsylvania

- › Renovation and addition to the Sis and Herman Dupre Science Complex consisting of four buildings; LEED Gold

#### University of Pittsburgh at Johnstown - Johnstown, Pennsylvania

- › Engineering and Science Building Renovations

#### Yale University - New Haven, Connecticut

- › Greeley Memorial Laboratory: Forestry Lab (North), Chemistry Lab (Basement) & Forestry Office (South) – Renovations to 11,500 sq.ft. for two large laboratories: the 1st floor Forestry Lab, the Chemistry Lab, office space plus base building infrastructure improvements
- › Yale Commons Telecom HVAC upgrade and consolidation of six HVAC systems serving the telecom switch room into two new fully redundant HVAC systems

#### Pennsylvania American Water (PAW) - Various Locations, Pennsylvania

- › **Bethel Park Operations Center Renovation** - Renovations to the existing building for use as an Operations Center in Pittsburgh, PA
- › **Warren Operations Center Renovation** - Renovations of an existing facility for use as an Operations Center in Warren, PA



## David B. Schmidt, Jr., P.E., RCDD

*Communications Engineer*

Mr. Schmidt is an Electrical Engineer with a wide range of engineering experience in institutional and commercial projects. His experience includes project planning, project management, facility design, project scheduling, cost estimating, construction administration, and training of operations and maintenance personnel. He is also a Registered Communications Distribution Designer (RCDD) with an extensive background in communications systems design including both optical fiber and copper backbone cabling systems. His specific experience includes project management and engineering design for data centers, call centers, operations centers, and other critical facilities. He is experienced in power distribution systems, lighting systems, energy management, direct digital controls, fire detection and alarm systems, on-site power generation, and all types of structured communications cabling systems for telephone, voice, and data.

### EDUCATION

Graduate Studies, Manufacturing Systems Engineering, 1995, University of Pittsburgh

Bachelor of Science Electrical Engineering Technology, 1990, University of Pittsburgh at Johnstown

Associate in Specialized Technology, Electronics, 1979, Penn Technical Institute

### EXPERIENCE

H.F. Lenz Company 1995-Present • Johnstown America Corporation 1994-1995 • LTV Steel 1991-1994 • Metalworking Technology, Inc. 1989-1991 • Lincoln Contracting & Equip. Co. 1982-1984

### PROFESSIONAL REGISTRATION / CERTIFICATION

Licensed Professional Engineer in Pennsylvania, Maryland and West Virginia • Registered Communications Distribution Designer

### PROFESSIONAL AFFILIATIONS

Building Industry Consulting Service International (BICSI) • National Society of Professional Engineers (NSPE)

### PROJECT EXPERIENCE

#### Yale University HPC Data Center - New Haven, Connecticut

- › Design of structured fiber infrastructure for computing pods utilizing InfiniBand Network
- › Analysis and recommendations for electrical and communications infrastructure upgrades of three telecom switch rooms

#### Carnegie Mellon University - Pittsburgh, Pennsylvania

- › Gap analysis and evaluation of Software Engineering Institute Data Center
- › Design of Communication cabling system for Doherty Hall, a 217,000 sq. ft. building including a Chemical Engineering Department with laboratories, offices, and classrooms

#### University of Connecticut - Storrs, Connecticut

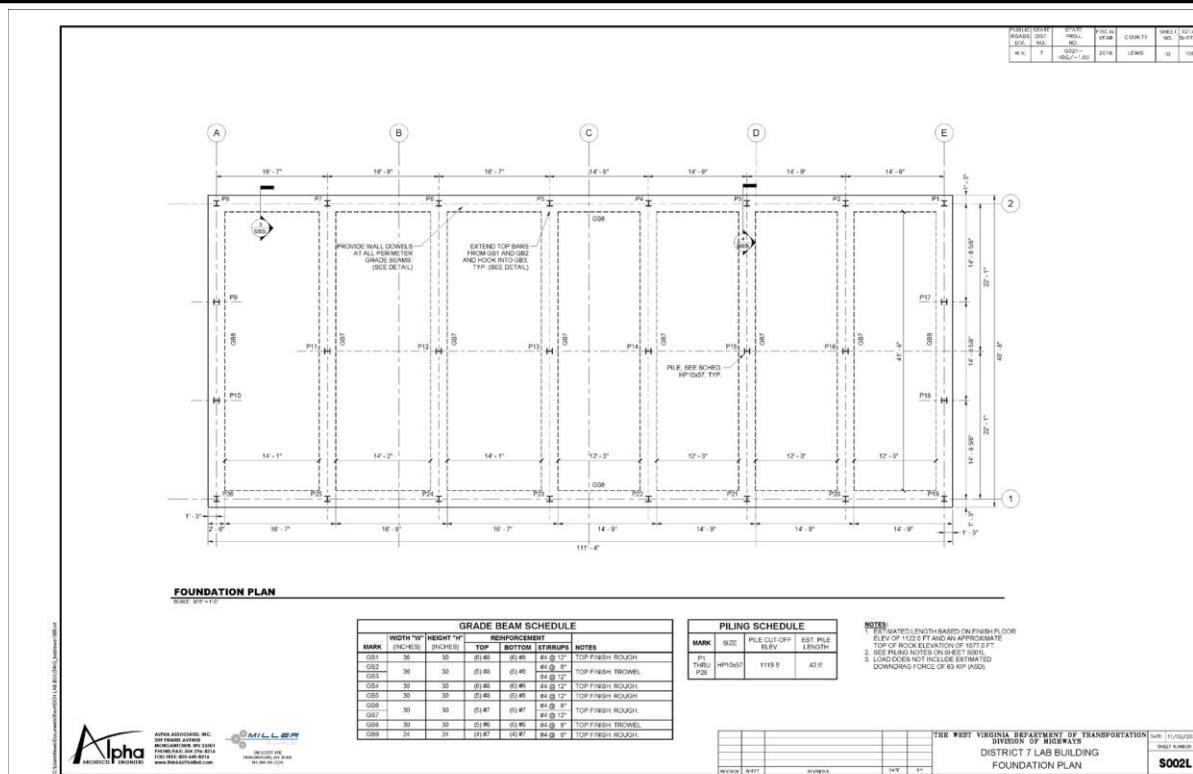
- › Multiple projects under an on-call contract for Data & Telecommunications design services at the Storrs-Mansfield main campus and other locations

#### Pennsylvania State University - Various Campuses

- › Erie Campus - Design of communication cabling system for new Research & Economic Development Center, a \$23.5 million "smart" academic building, designed to be a state-of-the-art instructional and research facility for the School of Engineering Technology and the School of Business
- › University Park Campus - Design of communication cabling system for the new Erickson Food Science Building, a 132,000 sq.ft. research and lab facility

# DEPARTMENT OF HIGHWAYS DISTRICT 7 HEADQUARTERS

Weston, WV; Construction 2020



Alpha provided architectural, civil and structural engineering design services for two new facilities at the WVDOH District 7 campus outside of Weston, WV.

## At a Glance:

CLIENT: WV Division of Highways  
LOCATION: Weston, WV  
COMPLETION DATE: TBD  
SIZE: Multi-purpose Building-31,000 sq. ft., Lab-5,000 sq. ft.  
CONSTRUCTION COST: TBD

## Project Contact:

Joshua Smith  
WVDOH Project Manager  
304-887-2325

The first is a new concrete and asphalt testing laboratory on a previously prepared site pad. The building is planned to be approximately 5000 sq. ft., single story, and all masonry building with a wood truss roof.

The second facility, known as Multi-purpose Building, consists of 4 different departments, separated by internal partitions and structures. Each department shall have its own high-bay area for variously sized transportation vehicles and storage. Administrative areas shall be located on a second level, with direct connection to the department they serve. Commonly utilized spaces shall be centrally located and accessible to all occupants without having to traverse another department.

The campus sits on top of a roughly 50-60ft of uncontrolled fill. Previously disposed mine soils, stumps and other organics underlay the site. An extensive deep foundation system consisting of nearly 100 piles was used in conjunction with a network of concrete grade beams to carry the heavy loads of the long-span building above.





# MINERS HEALTH AND SAFETY TRAINING BUILDING

Oak Hill, WV; 2018



## *At a Glance:*

CLIENT: WVMHST  
LOCATION: Oak Hill, WV  
COMPLETION DATE: 2019  
SIZE: 16,584 Sq. Ft.  
CONSTRUCTION COST: \$690,000

## *Project Contact:*

Eugene White  
7 Players Club Dr. Ste 2  
Charleston, WV 25311  
304-469-8100

Alpha Associates, Incorporated provided architectural design, civil and structural engineering services for renovations to the Miners Health and Safety Training Building. The building serves as a Training Building for the WV Miners Health and Safety.

- Project consisted of:
- Renovation of Prefab Metal Building with added office space
- Poured Concrete
- Parking Lot
- New windows and doors
- Interior Finishes



# MARTINSBURG ROUNDHOUSE BRIDGE AND MACHINE SHOP RESTROOM BUILDING

**Martinsburg, WV; 2017**



## *At a Glance:*

CLIENT: Berkeley County Roundhouse  
Authority

LOCATION: Martinsburg, WV

COMPLETION DATE: 2020

SIZE: Restroom facility 560 q. ft./  
Sprinkler Sys.

22,756 sq. ft.

CONSTRUCTION COST: \$379,918

## *Project Contact:*

H.D. Boyd  
Berkeley County Roundhouse  
Authority  
P.O/ Box 3084  
Martinsburg, WV 25401

Alpha Associates provided design, preparation of construction documents, bid phase services and construction administration for renovations and additions to the Martinsburg Round House Bridge and Machine Shop.

This project also involved the development of a master plan for the facility which included building/life safety code assessment for the intended uses and evaluations of existing structural conditions. From the Masterplan the following projects were designed as stand-alone projects:

- Design of a restroom building with a sprinkler room addition
- Design of a dry sprinkler system for the first and second floor of the existing building
- Design of a new storefront entrance
- Design of a concrete slab and pavers to create an ADA compliant walking surface on the first floor while retaining the existing tracks (To be constructed at a later date)
- Design of a new egress stair, concrete slab and elevator for the second floor (To be constructed at a later date)

# WEST VIRGINIA UNIVERSITY REEDSVILLE FARM REDEVELOPMENT

Reedsville, WV; 2017



## *At a Glance:*

CLIENT: West Virginia University

LOCATION: Morgantown, WV

COMPLETION DATE: 2017

SIZE: 8.5 Acres

CONSTRUCTION COST: \$6.5 Million

## *Project Contact:*

Scott Owen

979 Rawley Lane

P.O. Box 6572

304-290-6613

The West Virginia University Reedsville Farm is operated by the WVU Davis College partnered with WVU Extension Services and is home to the Extension Service Equine Arena. Alpha is the lead architect and project engineer for this project, partnering with POPULOUS, world-renowned in equine facilities to assist with design. The goal of this project was to redevelop the farm as the Hazel Ruby McQuain Equine Education & Research Center with state-of-the-art facilities to increase student and stakeholder opportunities, enabling the equine studies program to flourish.

The project included:

- Design of a new gateway to improve appearance and identity along main road.
- Addressing site and infrastructure issues.
- Elevate and improve existing outdoor arena.
- Design a new 11,500 sq. ft. Multipurpose Building.
- Design a new 8,200 sq ft. Education & Research Center with dormitory rooms and facilities', offices, and classrooms.
- Construct new Welcome/Honor/Gathering Plaza with vertical tower element incorporating donor plaques.
- Master Planning which includes future horse barn, expanded multipurpose building, pasture improvements, RV Hookups, maintenance facilities, and further renovation of existing facilities.





# CLARKSBURG STATE OFFICE BUILDING

Clarksburg, WV; 2016



## *At a Glance:*

CLIENT: State of West Virginia  
LOCATION: Clarksburg, WV  
COMPLETION DATE: 2016  
SIZE: Bldg: 88,491 Square Feet  
CONSTRUCTION COST: \$24.9 Million

## *Project Contact:*

William Barry  
1900 Kanawha Blvd. East  
Charleston, WV 25305  
304-957-7188

Alpha Associates, Incorporated provide architectural design, civil and structural engineering and surveying services for a new state office building in Clarksburg, WV.

Designed to complement the historic character of downtown Clarksburg, WV, the five story building sits on a 2.1 acre site. The sloping site created an opportunity for a public entrance on the main level, and a staff entrance on the lowest level. Six public facing State agencies were designated to occupy the building, including the Department of Motor Vehicles and WV Workforce.

The exterior building envelope consists of oversized red brick and structural clay tile that mimics sandstone in an ashlar pattern. Energy efficient systems, including the use of a revolving door, were created and constructed for the building envelope and interior spaces. Elevators, public restrooms, and other secondary spaces were located in the central core, creating an efficient floor plate.



# VA WEST VIRGINIA OI&T FACILITY

Shepherdstown, WV; 2015



## *At a Glance:*

CLIENT: The Federal Group  
LOCATION: Sheperdstown, WV  
COMPLETION DATE: 2019  
SIZE: 14,825 Square Feet  
CONSTRUCTION COST: Private

## *Project Contact:*

Mr. Ken Lowe  
233 Lowe Drive  
Shepherdstown, WV 25443  
304-870-7001

A former conference center was reconfigured to serve as the VA OI&T facility.

Large open office spaces, conference rooms, enclosed offices, a break area, storage rooms, and IT areas were all created to allow for a comfortable area for the tenant.

Enclosed offices and conference rooms were provided with ample light and a feeling of openness by using glass wall systems with integrated sliding glass doors.

The finished space allows for a large staff to be accommodated in an area that provides more ease of movement from one space to another while also being fully secured from unauthorized access.

# FEDERAL CORRECTIONS INSTITUTION MEDIUM SECURITY FACILITY

Hazleton, WV; 2012



## *At a Glance:*

CLIENT: Hensel Phelps Construction  
LOCATION: Hazelton, WV  
COMPLETION DATE: 2012  
SIZE: 13,805 sq.ft  
CONSTRUCTION COST: \$160 Million

Alpha Associates is the Architect of Record for a new medium security men's prison in Hazelton, WV. Hensel-Phelps Construction is the Design-Build Contractor. As part of the project Alpha provided architectural design and structural engineering for a new 13,805 square feet Administrative Building. The Administration Building serves as the main entrance and control center hub for the facility. The building contains a Lobby/Waiting Area, Squad Room/Armory/ Locksmith, Storage Area, Staff Offices/ Telephone & CCTV Monitoring, and the Warden's Suite.

The building serves both secure and non-secure activities. Sensitive areas such as Central Control, Electronic Equipment, Security LAN, and Telephone Equipment were constructed to the Federal Bureau of Prisons Security Standards to include secure doors and hardware, reinforced masonry and concrete walls, and precast concrete plank ceilings. The building is designed using Leadership in Energy and Environmental Design (LEED) principles and reinforces the goals set forth in the Energy Policy Act. The building is expected to achieve a LEED Gold Certification.





# MONONGALIA COUNTY SHERIFF'S BUILDING

Morgantown, WV; 2011



## *At a Glance:*

CLIENT: Mon County Commission  
LOCATION: Morgantown, WV  
COMPLETION DATE: 2011  
SIZE: 31,655 Square Feet  
CONSTRUCTION COST: \$7.9 Million

## *Project Contact:*

Sheriff Al Kisner  
116 Walnut Street  
Morgantown, WV 26506  
304-291-7290

Alpha Associates, Incorporated provided architectural design, civil and structural engineering and surveying services for this new building that houses offices for the Monongalia Sheriff's Department and other county agencies.

Site constraints and adjacent overhead structures made the development and construction of the project very challenging.

The ground floor includes the sheriff's department, evidence room and several bailiff rooms. The remaining floors are designed to house flexible office space.

Restricted access, combined with a high level of security, both passive and active systems were part of the design program.



# WEST VIRGINIA UNIVERSITY ALUMNI CENTER PARKING

**Morgantown, WV; 2008**



## *At a Glance:*

CLIENT: WV Alumni Association  
LOCATION: Morgantown, WV  
COMPLETION DATE: 2008  
SIZE: 200 Spaces  
CONSTRUCTION COST: \$997,000

## *Project Contact:*

Paul Hanko  
P.O. Box 4269  
Morgantown, WV 26504  
304-293-4731

Alpha Associates provided surveying, civil engineering and construction administration services for the West Virginia University Alumni Center Parking Lots Project. This project provided 200 controlled access, paved parking spaces adjacent to the new WVU Alumni Center, lighting, storm water controls, and other related appurtenances.

Alpha's civil engineering components included: building demolition, site grading, storm water management, utility design, and storm drain design. Alpha coordinated the project with the Morgantown Utility Board, the City of Morgantown, and all local utility companies.

Also included in this construction package was the demolition of two existing apartment buildings. Alpha provided engineering for the removal of the buildings and coordination of environmental remediation services.







## Naval Air Station Jacksonville (NAVFAC Southeast) Jacksonville, Florida

### P-8A INTEGRATED TRAINING CENTER (ITC)

This Design/Build project consisted of the design and construction of a \$48.6 million multi-story, 165,665 sq.ft. Operational Training Center in Jacksonville, Florida for the next generation Command and Control multi-mission aircraft (MMA)/P-8A. The P-8A will replace the aging P-3 when deployed.

The P-8A was designed around a modified Boeing 737-800ERX airframe. This airframe coupled with the next generation of electronics and sensors dramatically improves the Navy's Anti-Submarine Warfare capabilities.

The P-8A Integrated Training/Simulation Center contains the most advanced state-of-the-art computational facility to support 40 instruction environments and 19 multi-million dollar simulation trainers. The facility also houses the US Navy's P-8A's program mission design command within a classified Secure Compartmented Information Facility (SCIF).

H.F. Lenz Company provided all of the HVAC, electrical and plumbing, and Computer Room engineering design for this new facility. The project incorporates best practices for energy efficiency and sustainable design.

The project is LEED Gold certified.

#### Training Features:

- › Ten (10) Operational Flight Simulators
- › Eight (8) Weapons Trainers
- › Seven (7) Raised Floor Computer Rooms for Simulator Equipment
- › Class Rooms
- › Briefing Rooms

#### Building Features:

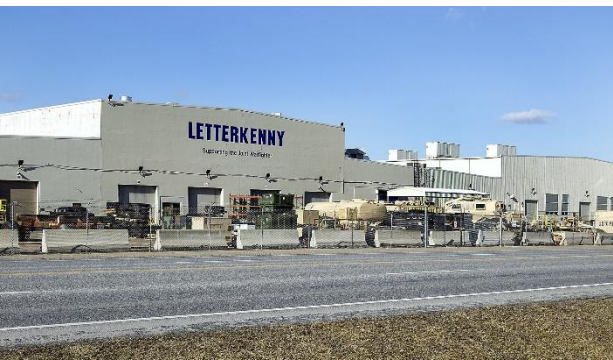
- › Two (2) 4,000A 480Y/277V Electrical Main Services
- › Dedicated Outdoor Air Handling System with Energy Recovery Wheel
- › Diesel Emergency Generator
- › Central Chilled Water Plant
- › UPS Systems for all Simulator Equipment
- › Overhead Crane in Simulator Bays
- › Photovoltaic Parking Shades

H.F. LENZ COMPANY

RELEVANT EXPERIENCE

*"Integral piece of the best government/contractor partnership I have ever worked with. Successfully designed MEP systems for 165K SF training center with over 1000 ton cooling requirement and 6MW power requirement. Extremely fast paced design schedule with multiple customer requested changes to design leads was met with quality expectations exceeded. The flexibility exhibited during design and construction was tremendous!"*

-Mr. Adam Hocutt, NAVFAC Southeast, Project Manager (PH: 904-542-6115)



## Letterkenny Army Depot

Chambersburg, Pennsylvania

### BUILDING 350 RENOVATION

H.F. Lenz Company provided the engineering services for a multi-phase project to replace, upgrade and expand the HVAC system capacity for Building 350 at Letterkenny Army Depot in Chambersburg, Pennsylvania. This building totals approximately 375,000 sq.ft. and is used for military vehicle reconditioning and includes paint shops, welding shops, machine shops, warehouse space, and office areas. The overall project has been separated into manageable smaller projects that can be completed with minor disruption to the vehicle reconditioning operations. Project phases have included the following:

- › Replacement of the main heating and ventilating units located in the vehicle maintenance area. These units consist of both rooftop and space mounted units equipped with outside air dampers, mixing section, filters, steam heating coils and supply fan section. The units range in size from 5,000 cfm to 10,000 cfm
- › Upgrade of eight 16,000 cfm to 28,200 cfm heating and ventilating units equipped with energy recovery. The units provide outside air to the welding shops
- › Installation of DX air handling units for office additions
- › Toilet room renovations

Upgrade the entire building exhaust system which involved the replacement of twelve 21,900 cfm roof mounted exhaust fans, and design of additional fans to improve overall building ventilation.

H.F. Lenz Company has been providing engineering services consistently on Letterkenny Army Depot base since 1983. We have provided engineering services for over 100 projects under seven consecutive term contracts. These projects have included a wide-variety of training spaces and facilities including:

- › Military vehicle assembly facilities
- › Maintenance shops
- › Missile facilities
- › Industrial Facilities
- › Building additions
- › Offices
- › Central plants
- › Utilities

#### Past Performance Review Comments:

*"Excellent cooperation with post in developing scope, request for proposals and advertising for upgrade of three separate projects."*

- Ronald J. Maj, Chief, Engineering Division, USACE, Baltimore

*"H.F. Lenz provided outstanding support . . . The Lenz team was thorough and responsive to all of the customer's needs, requests, and clarifications."*

- Anthony Vidal, Deputy Chief, Engineering Division, USACE, Baltimore



## Erie International Airport

Erie, Pennsylvania

### VARIOUS ADDITION AND RENOVATION PROJECTS

Erie International Airport is a publicly owned, public use, primarily commercial service facility. H.F. Lenz Company has provided mechanical, electrical, plumbing and fire protection engineering services for numerous projects at the airport including:

**Operations Room / Generator / UPS Project** - New diesel generator to replace two (2) existing generators, and a new building electrical power conditioning system. Both the generator and the UPS system were sized to handle the current needs with additional capacity for the anticipated future load.

**Freight Facilities Study** - Study to determine the feasibility of converting two former factory buildings for freight handling; included cost estimates for upgrading the mechanical and electrical systems.

**Terminal Security System** - Renovation for relocation of the passenger security checkpoint and equipment and the installation of a cellular phone network throughout.

#### Additional Projects for Erie International Airport include:

- › HVAC, Plumbing, and Electrical design for a new Car Rental Facility
- › HVAC, Plumbing, Fire Protection, and Electrical design for additions and renovations to the Ticketing Area
- › HVAC, Plumbing, Fire Protection, and Electrical design for the replacement of two existing Jetways
- › HVAC, Plumbing, and Electrical design for a new office addition at the existing Customs Building
- › Study of the existing electrical system for the terminal and auxiliary facilities
- › Study of the existing energy management system for the terminal and auxiliary facilities
- › Plumbing and Electrical design for a new water service and exterior booster pump
- › HVAC, Plumbing, and Electrical design for the Second Floor Office Renovations
- › Study of the existing exhaust system for the Restrooms located in the Main Terminal
- › HVAC, Plumbing, and Electrical design for multiple TSA Renovations and Additions including:
  - Administrative Offices
  - Regional Offices
  - Security System and Equipment Upgrades
- › Electrical design for the new exterior lighting and signage for the existing Main Terminal

*"Please allow this letter to serve as a strong reference and recommendation for your firm in providing Mechanical, Electrical and Plumbing services. Since my arrival at Erie International Airport, Tom Ridge Field, your firm has provided excellent service to us on a number of projects . . . As an Engineer myself, I have been amazed at your firm's continued technical proficiency, all the while meeting every schedule and budget. Your firm's ability to communicate with the client is second to none and your constant professionalism is excellent."*

*". . . our airport has made great strides in improving our appearance and functionality. Your firm has clearly served as a significant partner in helping us achieve our goals. To that end, we very much look forward to continuing to partner with you . . . "*

- Kelly J. Fredericks, P.E., AAE, Executive Director  
Erie Municipal Airport Authority  
Erie International Airport, Tom Ridge Field





## Ohio National Guard

*Akron, Ohio*

### AKRON-CANTON REGIONAL AIRPORT

H.F. Lenz Company provided the mechanical, electrical, plumbing, fire protection, and structural engineering services for the expansion and alteration of the existing Army Aviation Support Facility (AASF) hangar. The existing hangar, originally constructed in 1986, did not have adequate capacity to house the newly assigned CH-47 helicopters at the facility. The existing facility was also not equipped with a fire suppression system. The requirements of the project included partial demolition, expansion of the foundation and floor area of the existing hangar by 11,088 sq.ft., a new fire suppression system, modifications to the existing security systems and various interior improvements. The expanded facility is now able to accommodate three CH-47 helicopters.

The project also included the design of a new 26,400 sq.ft. aircraft storage facility.

#### **Project Features included:**

- › Design of FAA lighting
- › Fuel/water separator systems
- › Fixed foam fire suppression systems
- › Structural supports
- › Tie downs





## Pennsylvania Army National Guard

*Johnstown, Pennsylvania*

### REGIONAL MAINTENANCE FACILITY

H.F. Lenz Company was responsible for the design of a New Maintenance Shop for the Pennsylvania National Guard Facility located adjacent to the Airport in Johnstown, Pennsylvania. The building consists of 23,560 sq.ft. with approximately 8,000 sq.ft. of office and maintenance shop area and the remainder for storage and eight vehicle maintenance bays. The Regional Maintenance Shop will allow the National Guard to perform maintenance on military vehicles of all types and sizes.

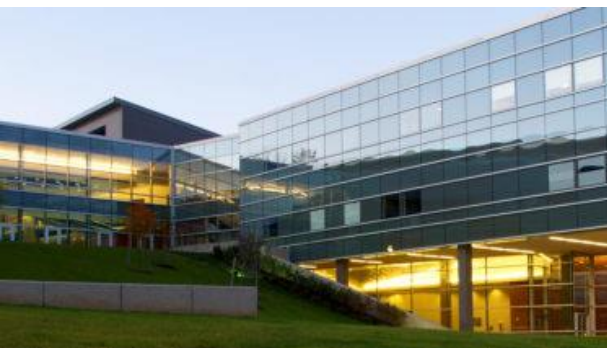
The building is sited along Airport Road with the main building and parking area located on a 7.41 acre parcel. A second parcel consisting of 6.14 acres, located in the Airport Runway Protection Area, includes an access road to a neighboring facility. The site includes parking for 31 staff vehicles and up to 80 military vehicles of varying sizes.

The project includes flammable storage, general storage areas, and an on-site fuel dispensing station. The entire area is protected by a perimeter fence and automatic access gates entering the site.

H.F. Lenz Company was responsible for the preparations and permitting for required erosion and sedimentation control plans as well as stormwater.

The construction cost was approximately \$4,150,000.





## Flexible Labs and Classroom Spaces

The H.F. Lenz Company has a wide variety of relevant experience for flexible lab and classroom spaces for colleges and universities and high-tech clients including maintenance shops, engineering labs, shop spaces and high-bay areas, to flight simulators and training facilities for military facilities, to the base building systems for a new autonomous self-driving car facility, and including several projects for NASA. Below is an overview of some of our relevant project examples.



### PENNSYLVANIA STATE UNIVERSITY – *Various Campuses*

- › **Behrend Campus** – New Burke Research and Economic Development Center (REDC), a 179,000 sq.ft. facility with engineering and tech labs, including the largest plastics lab in the U.S., various shop spaces and a high bay area. The building also houses classrooms, lecture halls, meeting spaces and a cafe and is home to several of the college's outreach programs
  - › Project Owner Representative: Mr. Marcus Marasco, Penn State University, Engineering Services, 155C Physical Plant Building, University Park, PA 16802 814-865-6197
- › **NARCO – Steady Thermal Aero Research Turbine (START Lab)** which focuses on innovating turbine cooling using true-scale engine hardware, developing sensors and instrumentation for smart turbines, advancing additive manufacturing for turbine applications, and integrating and embedding sensors through additive manufacturing.
  - › Project Owner Representative: Dwayne Rush, Penn State University, Engineering Services, 155C Physical Plant Building, University Park, PA 16802 814-865-6475

### PITTSBURGH TECHNOLOGY CENTER *Pittsburgh, Pennsylvania*

- › **Elmhurst Innovation Campus** – The project will encompass two 80,000 sq.ft. buildings, Building 1 is currently in progress and will include a high bay shop with research and development spaces, dynamic offices and open flex space. The flexible spaces are designed with open views to the floor below. The design also includes drive-in access.
  - › Project Owner Representative: Mr. Brian Miller, Director of Development, Elmhurst Group, One Bigelow Square, Suite 630, Pittsburgh, PA 15219 PH: 412-281-8731

### UNIVERSITY OF PITTSBURGH *Pittsburgh, Pennsylvania*

- › **Benedum Hall Renovations** - Phased renovation of the 419,000 sq.ft. Benedum Hall, home to the Swanson School of Engineering and contains classrooms, laboratories, offices, conference and seminar rooms, and is home to the George M. Bevier Engineering Library which serves not only the engineering school, but also the Department of Physics and Astronomy and Department of Geology and Planetary Science; Project is LEED Gold



- › **Mascaro Center for Sustainable Innovation** - New 42,000 sq.ft. building housing wet and dry; features adaptable lab spaces and offices with large frosted windows for natural light; Project is LEED Gold
- › Project Owner Representative: Project Manager (Canard S. Grigsby, Jr.) is no longer with the University, current contact: Mr. Chris Niemann II, Facilities Manager, University of Pittsburgh, Facilities Management, 3400 Forbes Avenue, Pittsburgh, PA 15260 PH: 412-624-9529

#### **UNIVERSITY OF PITTSBURGH AT JOHNSTOWN** *Johnstown, Pennsylvania*

- › New 26,000 sq.ft., two-story **Nursing/Health Science Facility** with chemistry and biology labs as well as Nursing Simulation Labs with SimMan patient simulators to provide a wide range of signs and symptoms to teach the students how to react to various situations and control room. LEED Gold
- › **Engineering and Science Building** – Renovation of the 66,000 sq.ft. building that houses various types of engineering labs including Fluids and Hydraulics, Measurements, Soils, Electronics, and Power Labs, and a nuclear magnetic resonance (NMR) magnet that required special engineering criteria such as controlled airflow and vibration considerations, as well as classroom and collaboration spaces and an auditorium.
- › Project Owner Representative: Ms. Lizette Rios-Williams, AIA, NCIDQ, PH: 724-809-3866

#### **REGIONAL INDUSTRIAL DEVELOPMENT CORPORATION (RIDC)** *Pittsburgh, Pennsylvania*

- › **ARGO Relocation** - Base building systems for a new artificial intelligence tech start up. The facility is used to develop artificial intelligence, machine learning and computer vision to produce and test self-driving vehicles
- › **Former Sony Plant** - Engineering services for master planning, renovations and tenant fit-outs throughout the 2.8 million-sq.ft. RIDC-Westmoreland facility
- › Tenant-fit ups for **Aquion Energy, DNP IMS America Corp, and Cenevo**
- › Base building systems and landlord standards for the **Westmoreland County Community College's new Advanced Technology Center** which includes such programs as welding, electronics, metallurgy and mechatronics.
- › Project Owner Representative: Ms. Jessica Brackin, RIDC, 611 William Penn Pl, Pittsburgh, PA 15219 PH: 412-829-4961





## CDC/NIOSH *Pittsburgh, Pennsylvania*

- › Design of the **Mine Rescue and Escape Training Laboratory (MRET)**, which occupies 180 acres and serves as one of two focal points for federal mine safety and health research. The project included design of a 360° Immersive Training Environment. Researchers utilize 3D technology to develop a supplemental tool, the BG 4 Benchling Trainer Software, used to assist mine rescue personnel in learning and retaining knowledge of the process of benchling (inspecting, assembling, and testing) a Draeger BG 4 breathing apparatus. The facility includes small and large specialized labs where researchers study heavy machinery, mechanical and electrical systems, ergonomic and biomechanic challenges, geological stresses, explosions, illumination, chemistry, dust control, and a host of other mining safety and health challenges.
- › Project Owner Representative: Mr. Ronald Cummings, NIOSH/CDC, Office of Administrative and Management Services, 626 Cochran's Mill Road, Pittsburgh, PA 15236 PH: 412-386-6681
- › **Building 141 Renovation** - Multi-discipline renovation of interior spaces into functional office and laboratory spaces in Building 141. Task 1 project involved creating a **new three-story structure inside of the high-bay Room 158 to house the dry lab and office space**. Task 2 included design of 8 to 12 fume hoods within the laboratories being constructed within Rooms 148 and 151. Construction Cost: \$8 million - Current Project
- › Project Owner Representative: Mr. William L. Porter, MS, FMP, NIOSH/CDC, 626 Cochran's Mill Road, Pittsburgh, PA 15236 PH: 412-386-5222

## YALE UNIVERSITY *New Haven, Connecticut*

- › **Wright Nuclear Structure Laboratory Renovation** - Renovation of 42,000 sq. ft. of Physics Laboratory and office space; includes complete replacement and upgrades to the building HVAC, electrical and plumbing systems and fire protection systems.
- › Project Owner Representative: Ms. Kari Nordstrom, Director of Project Architecture and Design, Yale University, 2 Whitney Avenue, New Haven, CT 06510 PH: 203-432-8405
- › **Electron Accelerator Laboratory** - This 6,620 sq. ft. comprehensive renovation converted previous laboratory and non-laboratory spaces into new physics research laboratory facilities with associated office spaces, conference room and lounge.
- › Project Owner Representative: Ms. Sheri Miller, Director of Planning and Project Management, Yale University, 2 Whitney Avenue, New Haven, CT 06510 PH: 203-432-8885
- › **W-SRC Clean Room Core Facility** - Engineering services for planning study and project formulation for both refurbishment of an existing Class 10,000 clean room and a new build Class 10,000 clean room at West Campus. Provided construction documentation services as the prime consultant for a new 2,500 sq. ft. Class 10,000 clean room and office suite.



- › Project Owner Representative: Ms. Sheri Miller, Director of Planning and Project Management, Yale University, 2 Whitney Avenue, New Haven, CT 06510 PH: 203-432-8885

#### **WEST VIRGINIA UNIVERSITY** *Morgantown, West Virginia*

- › **White Hall** – Phased renovation and life safety upgrades to the 95,500 sq.ft. Physics lab building with laboratories, classrooms, offices and a 175 seat auditorium. With the researchers' expanding use of lasers, and the technologies associated with them, the need to design the project with low vibration creating equipment and high power capacity was a top priority. Due to the constantly changing research and researchers, the labs were designed with maximum flexibility for multiple uses.
- › Project Owner Representative: Mr. John Sommers, Sr. Construction Project Manager, West Virginia University, 979 Rawley Lane, Morgantown, WV 26506-6572 PH: 304-293-2856

#### **WIDENER UNIVERSITY** *Chester County, Pennsylvania*

- › New 33,296 sq.ft. **School of Nursing** with offices, conference rooms, classrooms, 160-seat auditorium, and nursing simulation labs with SimMan simulators. The labs include a hospital simulation lab, assessment lab, pediatrics suite, OB suite, ICU/trauma and a nurses station. The headwall units simulated normal power, critical power, air, vacuum and oxygen, infant warmers, examination lighting, and patient lifts. LEED Silver
- › Project Owner Representative: Mr. Carl Pierce, Widener University, 1405 Melrose Avenue, Chester, PA 19013-5817 PH: 610-499-4555

#### **CONCURRENT TECHNOLOGIES CORPORATION** *Johnstown, Pennsylvania*

- › Utility systems for an 110,000 sq.ft. **high-bay expansion** and also the complete architectural/engineering design of 32,500 sq.ft. of specialty space within the high-bay area
- › Project Owner Representative: Ms. Darlene Lewis, Concurrent Technologies Corporation, 100 CTC Drive, Johnstown, PA 15904 PH: 814-269-2792

#### **ERIE COUNTY TECHNICAL SCHOOL** *Erie County, PA*

- › New 21,000 sq.ft. addition to the existing technical school including shop spaces and upgrades to the precision machine lab. We are also providing the engineering services for the \$34 million renovation and infrastructure upgrades for the existing facility, which was built in 1968.

#### **WARREN COUNTY CAREER CENTER** *Warren, PA*

- › Complete renovation and new addition, including automotive trade shops, wood shop areas, culinary program area, accounting and nursing areas and a new building trades facility (separate building)



# CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

*The West Virginia State Board of Registration for Professional Engineers  
having verified the person in responsible charge is registered in  
West Virginia as a professional engineer for the noted firm, hereby certifies*

*has complied with section §30-13-17 of the West Virginia Code governing  
the issuance of a Certificate of Authorization. The Board hereby notifies you of its  
certification with issuance of this Certification of Authorization for the period of:*

*providing for the practice of engineering services in the State of West Virginia.*

IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE,  
PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.



IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF  
REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA  
UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT



# HEAR FROM OUR CLIENTS.

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**J. Paul Walden**  
**West Virginia University**

Alpha Associates have a proven record of customer satisfaction and successful client delivery with our organization. We would be confident in our recommendation in support of Alpha.



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

Every aspect and detail of [Alpha's] planning, coordination, and completed projects have been exceptional and outstanding in every regard.

## References

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**Brad Leslie**  
**WV Parks and Recreation**  
**Division of Natural Resources**  
324 4th Avenue  
South Charleston, WV 25303  
304-558-2764

**Bill Clark, Executive Director**  
**Region 9 Planning & Development Council**  
400 West Stephen St Suite 301  
Martinsburg, WV 25401  
(304)-263-1743

**David Hildreth**  
**State of West Virginia**  
1409 Greenbrier Street  
Charleston, WV 25305

**Dirar Ahmad**  
**West Virginia Division of**  
**Highways**  
Building 5  
1900 Kanawha Blvd., East  
Charleston, WV 25305-0430  
304-558-2830

**Damien Davis, City Engineer**  
**City of Morgantown**  
389 Spruce Street  
Morgantown, WV 26505  
304-284-7412