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Header @ 1

List View

General Information | Contact | Default Values | Discount | Document Information | Clarification Request

Procurement Folder: 1029735


Procurement Type: Central Contract - Fixed Amt

Vendor ID: 000000201753 

Legal Name: ALPHA ASSOCIATES INC

Alias/DBA:

Total Bid: \$0.00

Response Date: 04/27/2022 

Response Time: 9:52

Responded By User ID: hailey.hill 

First Name: Hailey

Last Name: Hill

Email: hailey.hill@thinkalphafirs

Phone: 3042968216

SO Doc Code: CEOI

SO Dept: 0211



SO Doc ID: GSD2200000006

Published Date: 4/12/22

Close Date: 4/27/22

Close Time: 13:30

Status: Closed

Solicitation Description: EOI: Assessment of WV State Laboratory Testing Facilities 


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: 1029735
Solicitation Description: EOI: Assessment of WV State Laboratory Testing Facilities
Proc Type: Central Contract - Fixed Amt

Solicitation Closes	Solicitation Response	Version
2022-04-27 13:30	SR 0211 ESR04272200000006715	1

VENDOR
000000201753
ALPHA ASSOCIATES INC

Solicitation Number: CEOI 0211 GSD2200000006

Total Bid: 0 **Response Date:** 2022-04-27 **Response Time:** 09:52:02

Comments:

FOR INFORMATION CONTACT THE BUYER

Melissa Pettrey
(304) 558-0094
melissa.k.pettrey@wv.gov

Vendor Signature X	FEIN#	DATE
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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	EOI: WV State Laboratory Testing Facilities Needs Assessment				0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

Commodity Line Comments:

Extended Description:

EOI: WV State Laboratory Testing Facilities Needs Assessment



EXPRESSION OF INTEREST

ARCHITECTURAL/ENGINEERING SERVICES

**ASSESSMENT OF WV STATE
LABRATORY TESTING FACILITIES**

CEOI 0211 GSD2200000006

Public Notice Date: April 12, 2022

Submission Date: April 27, 2022



CONTACT

Address

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

Phone & Fax

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

Online

Email: rick.colebank@thinkALPHAfirst.com

Website: 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
Architect/Engr

Proc Folder: 1029735

Doc Description: EOI: Assessment of WV State Laboratory Testing Facilities

Reason for Modification:

Proc Type: Central Contract - Fixed Amt

Date Issued

Solicitation Closes

Solicitation No

Version

2022-04-11

2022-04-27 13:30

CEOI 0211 GSD2200000006

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 : 209 Prairie Ave.

Street :

City : Morgantown

State : WV

Country : USA

Zip : 26501

Principal Contact : Richard A. Colebank

Vendor Contact Phone: 304-296-8216

Extension: 102

FOR INFORMATION CONTACT THE BUYER

Melissa Pettrey
(304) 558-0094
melissa.k.pettrey@wv.gov

Vendor

Signature X

FEIN# 550516286

DATE 4/27/2022

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.

Richard A. Colebank, President & COO

(Name, Title)



(Printed Name and Title)

209 Prairie Avenue Morgantown, WV 26501

(Address)

304-296-8216 / 304.296.8245

(Phone Number) / (Fax Number)

rick.colebank@thinkalphafirst.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation 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 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 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.

Alpha Associates, Incorporated

(Company)



(Authorized Signature) (Representative Name, Title)

Richard A. Colebank, President & COO

(Printed Name and Title of Authorized Representative)

04/20/2022

(Date)

304-296-8216 / 304.296.8245

(Phone Number) (Fax Number)

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April 27, 2012

Department of Administration
General Services Division
103 Michigan Ave
Charleston, WV 25305

Attn: Melissa Pettrey

RE: CEOI 0211 GSD2200000006 – Assessment of WV State Laboratory Testing Facilities

Dear Ms. Pettrey,

Alpha Associates, Incorporated is pleased to submit this Expression of Interest to provide architecture, engineering services for the Assessment of WV State Laboratory Testing. Our highly skilled personnel make us the perfect partnering firm for the Office of Laboratory Services on this upcoming project.

Over the past 51 years Alpha has been providing high quality professional architectural and engineering design services to various clients throughout the State of West Virginia. Our experience with the design of laboratories goes back to 1969 with numerous laboratory design projects for the WVU Health Science Center among others.

The Project Team

Alpha Associates, Incorporated is a West Virginia owned and operated small business that offers several services under one roof, including architecture, civil and structural engineering, surveying, interior design, and construction administrative services. 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. H.F. Lenz will be the Mechanical, Electrical and Plumbing Consultants for this project.

Summary

Alpha's full team of architects, civil and structural engineers, landscape designers, surveyors, cost estimators, and construction administrators combined with the knowledge of our long-term MEP partner, H.F. Lenz will prove to be a benefit to the WV State Laboratory Testing Facilities throughout this project. We are excited about the opportunity to work with you to complete this project and look forward to discussing it with you in more detail.

Thank you for your time and consideration.

Sincerely,

ALPHA ASSOCIATES, INCORPORATED

A handwritten signature in blue ink, appearing to read 'Richard A. Colebank', with a long horizontal flourish extending to the right.

Richard A. Colebank, PE, PS
President and COO

rick.colebank@thinkalphafirst.com

WELCOME TO ALPHA ASSOCIATES, INC.

FIRM PROFILE

Contract Role: Prime

Architect & Engineer

Address

209 Prairie Ave
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





Johnstown Headquarters

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

Central Pennsylvania Office

549 North Mine Road
Lebanon, PA 17042
Phone: 717-461-3916

Pittsburgh Office

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

Ohio Office

322 State Street
Conneaut, OH 44030
Phone: 440-599-7800
Fax: 440-599-7801

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—healthcare, education, corporate, government, 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 48 Licensed Professional Engineers and 20 LEED Accredited Professionals. Our headquarters is in Johnstown, Pennsylvania with branch offices in Pittsburgh and Lebanon, 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
- › 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 85 percent of our work consists of repeat commissions from clients who appreciate our responsive, value-added service.

HEALTHCARE TEAM

Our dedicated Healthcare Team's responsiveness and technical expertise has led to the development of long-term business relationships with many health care clients. Our core healthcare team has been working together for an average of 15 years. This team's experience includes new construction, renovation projects, and evaluations and studies. Our projects range from renovations of individual departments, to modifying or replacing building-wide mechanical, electrical, and fire protection/life safety systems to the new construction of full service acute care hospitals.

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.

Since 1969, Alpha has provided engineering planning and design services to clients throughout the state of West Virginia. We have worked with many local, state, and federal government entities on numerous building and renovation projects of varying sizes and types. In this proposal, you will find examples that showcase the Alpha Team's exceptional project experience working with local, state, and federal government entities on numerous projects of varying sizes and types.

For this project, Alpha has partnered with H.F. Lenz Company to perform the mechanical, electrical and plumbing designs. Alpha has a successful partnership with H.F. Lenz that has developed over a decade and has included numerous projects. Both Alpha and H.F. Lenz have the knowledge and understanding in design and construction to complete this project seamlessly from the initial project inspection 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 for fair fees. We have always believed that the best way to succeed as a business is to go above and beyond the basic requirements of our contracts and do 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 projects from the earliest stages right through 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 two (22) architects, engineers, surveyors and administrative 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 51 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.

STAFF PLANNING

TO BE ASSIGNED TO YOUR PROJECT.

All work to be performed for the Office of Laboratory Services and the WV Department of Health and Human Resources will be managed out of Alpha's Morgantown office in conjunction with H.F. Lenz headquarters in Johnstown, PA. In addition to your dedicated Project Team, Alpha's staff of 22 includes engineers, architects, architectural designers, technicians, and support staff that are available to assist with any potential project need.



Richard A. Colebank
PE, PS
Principal in Charge



Charles Branch
PE
Senior Principal, Project Manager



Charles Luttrell
PE
Principal, Structural Engineer



Rebecca Key
AIA, LEED-AP
Director of Architecture



Casey Smith
AIA, Associate
Architectural Designer



David F. Bacci
PE,
Principal-in-Charge of MEP



David E. Palmer
PE, HFDP
Project Mechanical Engineer



Donald R. Ditter
CPD, GPD
Fire Protection Designer



Robert G. Mickle
PE
Electrical Engineer

MEET ALPHA'S TEAM.

MANAGERS

Richard W. Klein
PE , PS
Chairman & CEO

Richard A. Colebank
PE , PS
President & COO

ARCHITECTURE

Rebecca Key
AIA-LEEP-AP
Director of
Architecture

Casey Smith
AIA Assoc.
Architectural Designer

Todd Lewis
AIA Assoc.
Architectural Technician

Gabrielle Dixon
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

Joanna Stemple
Marketing Coordinator

Kim Coomler
Administrative Assistant

MECHANICAL, ELECTRICAL ENGINEERING

David F. Bacci
PE
Principal-in-Charge

David E. Palmer
PE, HFDP
Project Mechanical Engineer

Donald R. Ritter
CPD, GPD
Plumbing/Fire Protection Designer

Robert G. Mickle
PE
Electrical Engineer

SCHEDULE AND BUDGET.

Alpha Associates, Incorporated has an excellent track record of producing projects on time and within the Owner's budget. 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 regard to funds and time. Alpha utilizes a number of tools, both traditional and modern to exceed our clients' 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 has an excellent track record of meeting project design 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 and had a construction cost in excess of \$20 million.

Successful project management depends upon consensus regarding work efforts, milestones and goals. The team has found that 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 negotiated, available fee, and prior experiences on similar projects. Characteristic of the client, its organization, or the involvement of a construction manager and his responsibility for document review must also be considered.

This starts with a kick-off meeting which establishes ground rules, responsibilities, and line of communication. We have found that a team visioning session is a great way to get everyone started off on the right track. Determining a project schedule is a task that must be done with all parties involved in the process. 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 also works diligently to control the budget of a 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 of probable construction cost.

CAPACITY & SOFTWARE.

OUR CAPABILITIES

Alpha Associates, Incorporated is prepared to commit staff resources to the West Virginia Division of Health and Human Resources and the Office of Laboratory Services. 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 the Office of Laboratory Services with a committed and dependable design team. Our multidisciplinary design team is prepared to meet and exceed the expectations of the State 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 for 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:

- AutoCAD 19
 - REVIT (Editions up to 2020)
 - 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

Marion County Chamber of Commerce

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 projects 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

WV Boreman Hall; Morgantown, WV
Ruby Memorial Hospital Emergency Room; Morgantown, WV
Lewis County H.S. Medical Facility; Weston, WV
Camden-On-Gauley Medical Center; Camden-On-Gauley, WV
Camden Dental/Medical Arts Grant; Camden-On-Gauley, WV
Camden Family Health Dental Suite; Camden-On-Gauley, WV
WV Office of Miners Health Safety and Training Facility; Oak Hill, WV
WV State Office Building; Clarksburg, WV
WV State Office Building; Parkersburg, WV
WV DOH District 7 Lab & Multi-purpose Building.; Weston, WV
West Virginia Regional Technology Park Renovation to Building 770; South Charleston, WV
Mon County Family Court Renovation; Morgantown, WV
Mon County Sheriff's Department; Morgantown, WV
Fairmont State University Prichard Hall Renovation; Fairmont, WV
Augusta Apartment Building; Morgantown, WV
Ridgedale Elementary; Morgantown, WV
Mountaineer Middle; Morgantown, WV
Washington High School; Charles Town, WV
Ruby McQuain Amphitheater Roof; Morgantown, WV
North Fork Hughes River State Park; Ritchie County, WV



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

CHARLES B. BRANCH

PE; SENIOR PRINCIPAL & CIVIL ENGINEER

☎ 304-296-8216 | 800-640-8216

✉ chuck.branch@thinkalphafirst.com

SUMMARY

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

PROFILE

Broad-based responsibilities in the following areas:

- Highway Design
- Municipal Engineering
- Wastewater Collection
- Storm Sewer 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



CHARLES B. LUTTRELL

PE; SR. PRINCIPAL & STRUCTURAL ENGINEER

☎ 304-296-8216 | 800-640-8216

✉ charlie.luttrell@thinkalphafirst.com

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

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 Broadus 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



MATTHEW T. ECHARD

PE; PRINCIPAL & STRUCTURAL ENGINEER

☎ 304-296-8216 | 800-640-8216

✉ matthew.echard@thinkalphafirst.com

EMPLOYMENT HISTORY

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

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 in the United States, Europe, and the Middle-East, Mr. Echard returned to West Virginia to provide world-class service in a historically undeserved region while making positive contributions to the future growth of his home state. Mr. Echard places a large value on the collaborative work process. Believing that a building's form and function are derived from many contexts, Mr. Echard's office is located in the corporate office in Morgantown, WV. Mr. Echard also volunteers as the Chairman of the Gilmer County Unsafe Buildings and Lands Enforcement Authority.

PROFILE

Broad-based responsibilities in the following areas:

- Structural Engineering
- Structural Forensics
- Project Management

PROFESSIONAL HIGHLIGHTS

Project Manager & Structural Engineer:

- WVU Creative Arts Center Performance Access; Morgantown, WV
- WVU Aero/Combustion Lab Mezzanine; Morgantown, WV
- WVU Athletics Tennis Scoreboard; Morgantown, WV
- WVU Athletics Coliseum Scoreboard & Speakers; Morgantown, WV
- WVU CAFEE Building Addition; Morgantown, WV
- WVU Colson Hall, Admission & Records Access; Morgantown, WV
- WVU ESB Chiller Lines; Morgantown, WV
- WVU ESB Roof Fall Protection; Morgantown, WV
- WVU Health Sciences Center – Phase 1B HVAC; Morgantown, WV
- WVU Hodges Hall Renovation; Morgantown, WV
- WVU J.W. Ruby Research Farm; Reedsville, WV
- WVU Law School Precast Evaluation; Morgantown, WV
- WVU Mountainlair Façade Water Infiltration; Morgantown, WV
- WVU Mountainlair Gridiron Assessment; Morgantown, WV
- WVU Mountainlair Plaza Structural Assessment; Morgantown, WV
- WVU Stewart Hall MEP Upgrades; Morgantown, WV
- Westover Goodwill Structural Design; Morgantown, WV
- Weyerhaeuser Roof Evaluation; Heaters, WV
- Martinsburg Queen Street Underpass; Martinsburg, WV
- City Hall Façade Rehab; Morgantown, WV
- Metropolitan Theatre Roof; Morgantown, WV



BRADLEY CASDORPH

PE,PS; CIVIL ENGINEER

☎ 304-296-8216 | 800-640-8216

✉ brad.casdorph@thinkalphafirst.com

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

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:

WVDOH Arnettsville Bridge Replacement; Monongalia County, WV

WVDOH Open Engineering Open End Contract; WV

WVDOH 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:

WVDOH 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

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



David F. Bacci, P.E.

Principal-in-Charge

Mr. Bacci is experienced in the master planning and design of healthcare facilities including medical office buildings, acute care hospitals, and research facilities. He is also experienced in the design of heating, ventilating, and air conditioning systems including steam, hot water, chilled water, refrigeration, and air distribution systems. Mr. Bacci's involvement has encompassed field survey of existing conditions, engineering analyses, systems design, and the preparation of cost estimates. He has been involved in several energy conservation studies. Mr. Bacci is also a responsible Project Manager, performing project scheduling duties, coordination and supervision of project design teams, preparation of reports and cost estimates, and other project management functions.

EDUCATION

Bachelor of Science, Mechanical Engineering Technology, 1986,
University of Pittsburgh at Johnstown

EXPERIENCE

H.F. Lenz Company 1997-Present •
Glassman and Associates 1989-1997
• Gauthier Alvarado and Associates
1986-1989

PROFESSIONAL REGISTRATION / CERTIFICATION

Licensed Professional Engineer in
Pennsylvania, California,
Connecticut, Georgia, Indiana,
Maryland, New York, New Mexico,
North Carolina, Nevada, Oregon,
South Dakota, Texas, Virginia, and
West Virginia

PROFESSIONAL AFFILIATIONS

American Society of Heating,
Refrigerating and Air-Conditioning
Engineers • Past President,
Johnstown Chapter - Pennsylvania
Society of Professional Engineers

PROJECT EXPERIENCE

WVU Medicine, Ruby Memorial Hospital – Morgantown, West Virginia

- › Design of New Clinical Cytology, Cytogenetics and Histology Labs. Previously located in within a 5,000 sq.ft. space in the existing Health Sciences Center, which is adjacent to Ruby Memorial Hospital. This project involves the design of new labs within an existing building off campus at the Ruby Office Complex (ROC)

Veterans Affairs Medical Center – Philadelphia, Pennsylvania

- › 18,000 sq.ft. renovation of the Primary Clinical Lab, Building 2 including the Chemistry Lab, Histology, Microbiology, Sequencing Lab, Toxicology, Molecular, Blood Bank, and offices

UPMC Altoona – Altoona, Pennsylvania

- › Laboratory expansion and renovation, CSR expansion and renovation, surgical suite expansion
- › 50+ renovation and/or addition projects
- › 5,000 sq. ft. renovation of T2 pharmacy with both hazardous and non-hazardous clean rooms

Children's National Medical Center – Washington, DC

- › New 150,000 sq.ft. addition and renovations throughout the facility including a 5,200 sq.ft. renovation to create a new Animal Research including BSL-1 and BSL-2 spaces

Allegheny General Hospital – Pittsburgh, Pennsylvania

- › 8th floor Lab Renovation Stage 3
- › BSL-3 Lab HVAC study

AHN West Penn Hospital – Pittsburgh, Pennsylvania

- › Grossing Lab

MetroHealth – Cleveland, Ohio

- › New GMP (Good Manufacturing Practice) Cleanroom Facility



David E. Palmer, P.E., HFDP

Project Mechanical Engineer

Mr. Palmer has worked in the HVAC engineering field for over 20 years as a consulting engineer, department manager, and project manager. His design and management background includes central plant chiller and boiler design, hospital design, education facility design and semi-conductor facility design. He has been lead system design engineer on projects exceeding \$250 million in construction cost.

EDUCATION

Bachelor of Science, Energy Technology, 1983, The Pennsylvania State University

EXPERIENCE

H.F. Lenz Company 2002-Present •
Eichleay Engineers 1998-2002 •
Industrial Design Corporation 1993-1997 •
South Hills Engineering Inc. 1991-1993 •
Presbyterian University Hospital 1988-1990 •
Olds Engineering Associates Inc. 1983-1985

PROFESSIONAL REGISTRATION / CERTIFICATION

Licensed Professional Engineer in Pennsylvania •
ASHRAE Healthcare Facility Design Professional

PROFESSIONAL AFFILIATIONS

Institute of Environmental Sciences and Technology

PROJECT EXPERIENCE

WVU Hospitals, Ruby Memorial Hospital – Morgantown, West Virginia

- › Design of New Clinical Cytology, Cytogenetics and Histology Labs. Previously these functions were located in within a 5,000 sq.ft. space in the existing Health Sciences Center, which is adjacent to Ruby Memorial Hospital. This project involves the design of new labs within an existing building off campus at the Ruby Office Complex (ROC)
- › New 176,000 sq.ft. addition and 47,000 sq.ft. renovation

Allegheny General Hospital - Pittsburgh, Pennsylvania

- › 8th floor Lab Renovation Stage 3
- › BSL-3 Lab HVAC study
- › Cardiac Catheterization Lab 5 equipment replacement
- › Congestive heart failure research renovations

UPMC Presbyterian Hospital – Pittsburgh, Pennsylvania

- › Surgery lab renovations, Emergency department expansion, Nuclear cardiology, Intensive care units 7-5, 9-5 and 10-5, Occupational therapy/physical therapy renovations

CDC/ National Institute for Occupational Safety and Health - Pittsburgh, Pennsylvania & Morgantown, West Virginia

- › Three consecutive Indefinite Delivery-Indefinite Quantity (IDIQ) contracts under which a variety of multi-discipline engineering projects

The Ohio State University, - Columbus, Ohio

- › Celeste Chemistry Lab Building HVAC System MP and Upgrade .The building contained over 30 exhaust fans and duct risers with run-outs to over 150 hoods

University of Pittsburgh, Life Sciences Complex Renovations - Pittsburgh, Pennsylvania

- › Various renovations and building system replacements to for the Life Sciences Complex which consists of four buildings: Clapp Hall, Langley Hall, Crawford Hall, and the newly constructed Annex Building



Donald R. Ditter, CPD, GPD

Plumbing and Fire Protection Designer

Mr. Ditter has designed complete plumbing and fire protection systems for hospitals, medical office buildings, colleges, schools, office buildings, hotels, arenas, prisons, laboratories, parking garages, industrial facilities, and military installations. He is knowledgeable of NFPA and the International Building codes as well as experienced in the design of wet, dry, preaction, FM200, and deluge fire protection systems. He is responsible for plumbing and sprinkler system design, layout, and calculations; selection and sizing of equipment; cost estimates; and site survey work. Mr. Ditter coordinates the plumbing design with utility companies, with other trades, and with the Project Engineer and Project Architect. Mr. Ditter is responsible for assembling complete and accurate plumbing bid documents, which meet H.F. Lenz Company standards.

His duties also include the evaluation of mechanical systems concepts and comparisons, CFD analysis and 3D systems modeling, pre-purchase documents, factory witness testing, commissioning script preparation, commissioning coordination, and preparing LEED documentation.

EDUCATION

College Credits – Advanced mathematics and Physics, 1989-1990, University of Pittsburgh
Diploma 1986, Architectural Drafting and Construction with CAD Technology, Central Westmoreland Vocational-Technical School

EXPERIENCE

H.F. Lenz Company 2011-Present •
Astorino Companies 2002-2011 •
Peter F. Loftus Division of Eichleay Engineers 1986-2002

PROFESSIONAL REGISTRATION / CERTIFICATION

Certified in Plumbing Design, ASPE (obtained in 2000)
Green Plumbing Design, ASPE (obtained in 2016)

PROJECT EXPERIENCE

WVU Medicine, Ruby Memorial Hospital – Morgantown, West Virginia

- › Design of New Clinical Cytology, Cytogenetics and Histology Labs. Previously these functions were located in within a 5,000 sq.ft. space in the existing Health Sciences Center, which is adjacent to Ruby Memorial Hospital. This project involves the design of new labs within an existing building off campus at the Ruby Office Complex (ROC)

Veterans Affairs Medical Center – Philadelphia, Pennsylvania

- › 18,000 sq.ft. renovation of the Primary Clinical Lab, Building 2. The areas renovated include the Chemistry Lab, Histology, Microbiology, Sequencing Lab, Toxicology, Molecular, Blood Bank, and offices

AHN Allegheny General Hospital – Pittsburgh, Pennsylvania

- › EP Lab Replacement
- › Cysto Lab Replacement

WVU Medicine – Berkeley Medical Center

- › Fourth Floor addition, 7,300 sq.ft., for clinical patient space
- › Fit-up for four new Operating Rooms
- › Neonatal Intensive Care Unit (NICU), 4,600 sq.ft.
- › East mechanical room addition, 4,900 sq.ft.
- › First Floor Registration Lobby renovation, 10,215 sq.ft.



Robert G. Mickle, P.E.

Electrical Engineer

Mr. Mickle is responsible for the design of complete electrical systems for facilities. Mr. Mickle's key responsibilities include: coordination of building electrical, telephone and cable television services with respective utility companies; lighting design; power system design; fire alarm system design; sound system design; clock system design; stage lighting design; nurse call system design; emergency power system and lighting system design; electrical connection of HVAC, plumbing, and other miscellaneous equipment; writing of specifications; design of 5 KV and 12 KV underground electrical distribution systems; design of electrical systems for health care facilities; design of roadway lighting systems; design of electrical systems for military facilities; checking of plans and specifications for quality control; project management, building study and evaluation, and commissioning.

EDUCATION

Bachelor of Science, Architectural Engineering, 1979, Pennsylvania State University

EXPERIENCE

H.F. Lenz Company 2001-Present •
The EADS Group, Inc. 1991-2001 •
Brinjac Kanbic & Associates 1988-1991

PROFESSIONAL REGISTRATION / CERTIFICATION

Licensed Professional Engineer in Pennsylvania, Arizona, Connecticut, Delaware, Maryland, New Jersey, New York, North Carolina, Texas, Virginia, and West Virginia

PROFESSIONAL AFFILIATIONS

Institute of Electrical and Electronics Engineers (IEEE)

PROJECT EXPERIENCE

Veterans Affairs Medical Center – Philadelphia, Pennsylvania

- › 18,000 sq.ft. renovation of the Primary Clinical Lab, Building 2. The areas renovated include the Chemistry Lab, Histology, Microbiology, Sequencing Lab, Toxicology, Molecular, Blood Bank, and offices
- › Renovation of the Third Floor Research facility to accommodate researchers from the University of Pennsylvania. The research space was designed to be capable of handling most types of research and included renovating the entire third floor into distinct and separate labs for BSL-1, 2, and 3 level research

Children's National Medical Center – Washington, DC

- › Children's National Medical Center – Washington, DC
- › New 150,000 sq.ft. addition and renovations throughout the facility including a 5,200 sq.ft. renovation to create a new Animal Research laboratory which included an operating room, holding rooms, quarantine room, steam sterilizer and cage wash space, procedure room, and support spaces. Most of the areas are rated BSL-1 or BSL-2
- › New 150,000 sq.ft. addition to house 120 PICU and NICU beds
- › Project engineer for a \$100 million master plan. Projects have included: A facility-wide electrical system study; New 13.2 kV primary electrical distribution system

UPMC Altoona – Altoona, Pennsylvania

- › Laboratory expansion and renovation, Emergency department expansion, CSR expansion and renovation, Surgical suite expansion
- › 50+ renovation and/or addition projects

VA OI&T FACILITY

SHEPHERDSTOWN, WV; 2015

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 environment 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.

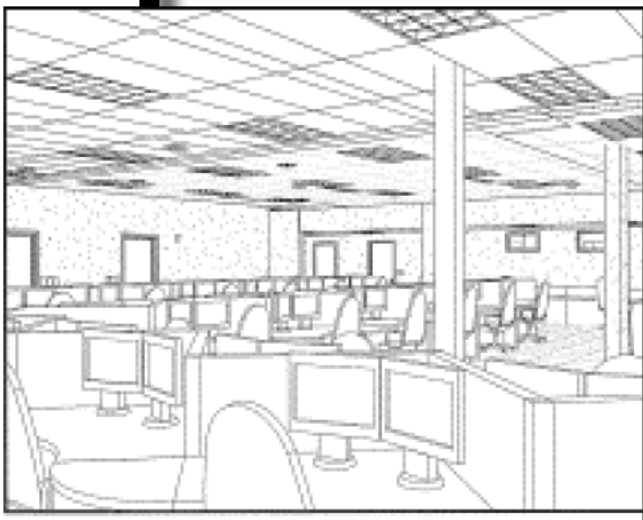
The finished space allows for a large staff to be accommodated in an area that allows for ease of movement from one space to another while also being fully secured from unauthorized outside access.

At a Glance:

CLIENT: The Federal Group
LOCATION: Shepherdstown, WV
COMPLETION DATE: 2015
SIZE: 14,636 Square Feet
CONSTRUCTION COST: Private

Project Contact:

The Federal Group
233 Lowe Drive
Shepherdstown, WV 25443
304-870-7001



WVU ENGINEERING RESEARCH BUILDING G07 HIGHBOY SPACE- RENOVATION

Morgantown, WV; 2010

Alpha provided Design services to renovate the high bay laboratory in the Engineering Research Building located on the Evansdale Campus. The existing room was being used as a laboratory space. Alpha provided design services to renovate the space. Work included construction of a new floor structure within the space for graduate assistant offices. Structural analysis for placement of a tension-compression testing machine and environmental chamber were also provided.

At a Glance:

CLIENT: West Virginia University

LOCATION: Morgantown, WV

COMPLETION DATE: 2010

SIZE: 836 Square Feet Added

CONSTRUCTION COST: \$219,750; \$26,700 Fee

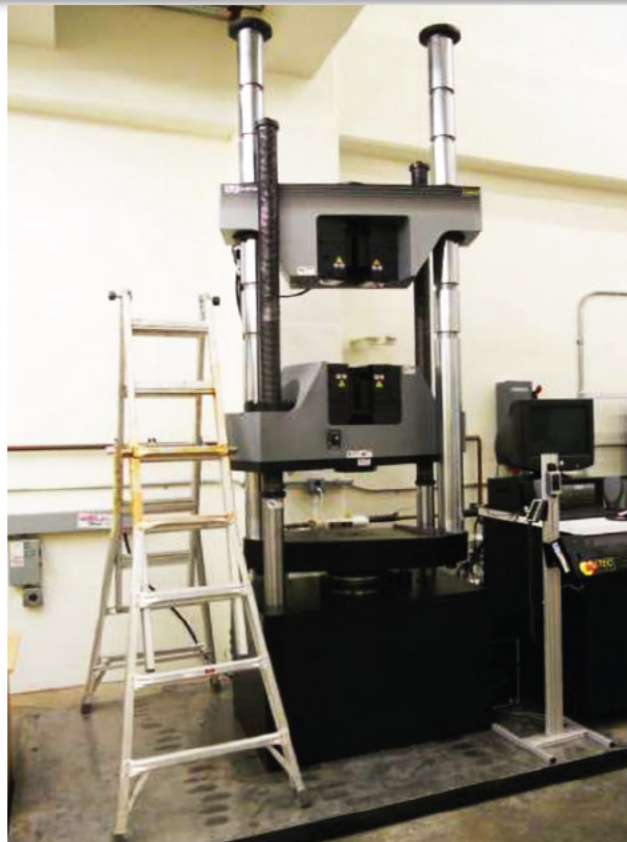
Project Contact:

Kevin Kilinsky

P.O. Box 6572

Morgantown, WV 26506

304-293-4841



BUILDING 770

SOUTH CHARLESTON, WV; 2015

Alpha Associates, Incorporated is currently working with HDR on the renovation of Building 770 at the WV Regional Tech Park in South Charleston. The project is the core and shell of a vacant and unoccupied laboratory building. Design work included the selective demolition and removal of HVAC, piping systems, and corridor ceilings.

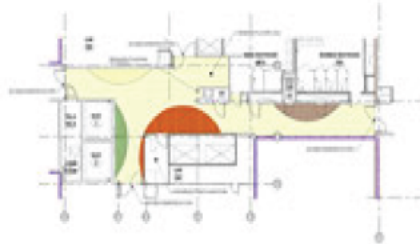
In addition, Alpha's team performed a full roof replacement, limited masonry work as it related to infill, repair of mortar joints, and structural settlement. Construction is currently underway for this project, and completion date was September of 2015.

At a Glance:

CLIENT: WVHEPC
LOCATION: South Charleston, WV
COMPLETION DATE: 2015
SIZE: 128,9000 sq. ft.
CONSTRUCTION COST: \$11.478 Million

Project Contact:

Jim King
1018 Kanawha Blvd., East
Charleston, WV 25301
304-558-0281



WVU ROBERT C. BYRD HEALTH SCIENCES CENTER LABRATORIES

Morgantown, WV; 1969

When our firm began in 1969, WVU Health Sciences Center was one of our first clients. Since that time we have completed nearly one million square feet of design services including numerous laboratories. Some of those projects include:

- Betty Puskar Breast Care Center
- Same Day Care Unit
- Dental Clinic
- Family Clinic
- MRI Support Facility
- Cranial Laboratory
- Vivarium Laboratory
- Physiology Laboratory
- Orthopedic Laboratory
- Micro-Pathology Laboratory
- Mass Spectrometer Laboratory
- Animal Quarter's Laboratory
- Pathology Laboratory
- Otolaryngology Laboratory
- Pharmacology Laboratory
- Biochemistry Laboratory
- Simulation Laboratory
- Neurosurgery Laboratory

At a Glance:

CLIENT: West Virginia University RCB HSC
LOCATION: Morgantown, WV
COMPLETION DATE: Multiple Projects
SIZE: Multiple Projects
CONSTRUCTION COST: Multiple Projects

Project Contact:

Leonard Lewis
P.O. Box 9004
Morgantown, WV 26506
304-293-6924





University of Delaware - State-of-the-art research facility houses the first research fMRI scanner in the state of Delaware - LEED Silver



WVU Rockefeller Neuroscience Institute - Fit-outs and renovations to the 80,000 sq.ft. facility



Yale School of Medicine - Term Contracts for fit-outs, renovations and studies of lab spaces

RESEARCH FACILITIES AND LABORATORIES

Research facilities require greater technology and infrastructure needs to accommodate flexibility for evolving technologies and innovations. Our team draws upon the experience of our healthcare team, along with our higher education team, to create sustainable buildings that reinforce nature healing by incorporating daylighting, the specification of sustainable and non-toxic building materials, and the use of renewable energy sources. Our teams work together to incorporate the latest technologies in research and laboratory design, as well as, the knowledge of current trends in technology for healthcare facilities of all types. Our experience with these facilities includes:

- > Incorporating flexibility and maintainability into systems design
- > Creating spaces for multidisciplinary interaction
- > Collaborative research areas
- > Simulation laboratories/virtual environments
- > Clinical treatment areas as well as scenario areas for teaching and research
- > Control rooms
- > Observation suites
- > Spaces that encourage informal social interactions
- > Robotics areas
- > Video-based training and computer labs
- > Green design, including designing for various levels of LEED Certification

In addition to a wide variety of laboratory and research spaces for healthcare facilities, our experience includes medical school projects for Duquesne University (current project), Yale University, the University of Delaware, Pitt and UPMC, Penn, WVU Hospitals and others, we have also designed new nursing schools for Widener University and the University of Pittsburgh at Johnstown.

LABORATORY DESIGN

The H.F. Lenz Company has expertise in the design of specialized mechanical and electrical systems for strictly controlled laboratory and research environments. The design of laboratories requires special consideration involving multiple zoning for flexibility and pressurization control. Our designs also consider energy conserving features including variable air volume systems to minimize outside air while maintaining proper air flows for indoor air quality and fume hood air flow requirements within prescribed safety limits. Our projects have included chemical, biological, and analytical laboratories; optical research laboratories; environmental testing chambers; radiation cells; carcinogenic research; chemical vapor deposition; laser diagnostic laboratories; and animal research facilities. These projects have included new facilities as well as renovations of existing systems where phased construction of occupied facilities is often required.



BSL 3 Laboratory Experience

H. F. Lenz Company has a substantial amount of experience with laboratories which require a Biosafety Level (BSL) rating. The Centers for Disease Control and Prevention (CDC) and the National Institutes of Health (NIH) established criteria for four levels of containment called BSLs. These criteria consist of combinations of laboratory practices and techniques, safety equipment, and laboratory facilities. Each combination is specifically appropriate for the operations performed, biological matter to be used, and the laboratory function or activity. Below are a few of our project examples.

CELLOMICS/UNIVERSITY OF PITTSBURGH, MCGOWAN INSTITUTE – PITTSBURGH, PENNSYLVANIA

- › Retrofit of 50,000 sq.ft. of laboratory space for Cellomics, which included 18,000 sq.ft. for the University of Pittsburgh's McGowan Institute of Regeneration Medicine in an existing office building
- › The facility is used to research regenerative medicine techniques including tissue engineering and cellular therapies, artificial organ, blood and blood project development, medical device laboratories, and other cutting edge medical research
- › 10,000 sq.ft. animal research facility, which included a 2,500 sq.ft. vivarium
- › 4,000 sq.ft. animal ICU



NEW BOLTON CENTER, PA DGS –CHESTER COUNTY, PENNSYLVANIA

- › Feasibility study for the 55,000 sq.ft. facility which will provide diagnostic, forensic, and research support services to the Pennsylvania Department of Agriculture through the Pennsylvania Animal Diagnostic Laboratory System (PADLS) and the Pennsylvania Equine Toxicology and Microbiology Lab, Large Animal Pathology Lab, Poultry Pathology Lab, Toxicology Lab, a Field Investigation Office, lab space convertible to Biological Safety Level 3 Facilities, PCR/Molecular Diagnostics and 20 mass spectrometers



VETERANS AFFAIRS MEDICAL CENTER LABORATORY RENOVATION – PHILADELPHIA, PENNSYLVANIA

- › The third floor laboratory renovation project (9,000 sq.ft.) scope renovated the entire third floor into distinct and separate labs for BSL-1, 2, and 3 level research



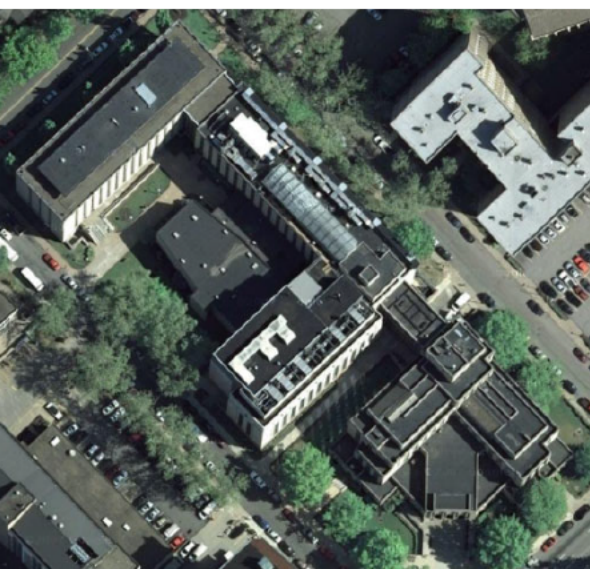


CHILDREN'S NATIONAL MEDICAL CENTER, RENOVATION AND ADDITION ANIMAL RESEARCH LAB –WASHINGTON, DC

- › New 150,000 sq.ft. addition and renovations throughout the facility
- › 5,200 sq.ft. renovation to create a new Animal Research laboratory which included an operating room, holding rooms, quarantine room, steam sterilizer and cage wash space, procedure room, and support spaces
- › The design also included a locker room with an air shower, as well as an ante room, which separated the critical areas. Most of the areas are rated BSL-1 or BSL-2. Many of the spaces contain biosafety hoods

UNIVERSITY OF PITTSBURGH, LIFE SCIENCES CENTER - PITTSBURGH, PENNSYLVANIA

- › Conceptual design and sizing of HVAC equipment for a new BSL-3 laboratory that is to be provided on the 5th floor of Crawford and Langley Halls
- › This design included the development of room pressurization drawings, sizing and locating of HVAC equipment, and preliminary sizing and locations of plumbing and electrical equipment to support the lab and the ancillary equipment



METROHEALTH GMP CLEANROOM FACILITY- CLEVELAND, OHIO

- › Concept design services for a new GMP (Good Manufacturing Practice) Cleanroom Facility
- › Developed as a prototypical space, with no specific existing building envelope or parameters to consider
- › This will also establish best practices within the GMP facility for future consideration

Concept Design plans for the area identified the following breakdowns of program space:

- › Positive pressure cleanroom
- › Negative pressure cleanroom
- › Varying pressure cleanroom
- › Changing room
- › Storage and supply areas
- › Office space
- › Lab spaces (non-cleanroom)
- › We were recently retained for the design services for this project



ALLEGHENY GENERAL HOSPITAL - PITTSBURGH, PENNSYLVANIA

- › 8th floor Lab Renovation Stage 3
- › BSL-3 Lab HVAC study

- › Demolition of existing fire protection system above the ceiling and back to the riser and new piping extended from that point
- › Demolition of electrical devices
- › Normal power panelboards will be replaced with new feeders to be extended to the existing distribution gear and emergency panelboards will be installed
- › New interior lighting
- › Extension and upgrade of the existing building fire alarm
- › New card swipe system

The project is currently in design.

Construction Cost: \$3M (estimated)



WVU Medicine, Ruby Memorial Hospital

Morgantown, West Virginia

NEW CLINICAL LAB

H.F. Lenz Company is providing full mechanical, electrical, plumbing and fire protection engineering services for the design of new Clinical Cytology, Cytogenetics and Histology Labs for WVU Medicine. Previously these functions were located in within a 5,000 sq.ft. space in the existing Health Sciences Center, which is adjacent to Ruby Memorial Hospital. This project involves the design of new labs within an existing building off campus at the Ruby Office Complex (ROC).

The new clinical laboratory space is 10,000 sq.ft. and includes the following areas:

- › Cytology Screening
- › Cytotechnology
- › Cytology Lab
- › Histology Lab
- › Tech Specialist
- › Culture Blood/Bone
- › Microarray
- › Culture PAC
- › Probe Prep
- › Fish Dark Room
- › Accessioning Screening
- › Block Storage
- › Central Accessioning
- › Specimen Storage
- › Slide Storage
- › Transcription
- › Director (2)
- › Administration Office
- › Conference Room
- › Copier Storage
- › Pathology Office (4)
- › Histology Techs
- › AP Manager
- › Resident Room
- › Lockers
- › Back Hall
- › Mechanical Room
- › Entry Hall

Design features include:

- › Demolition of the existing HVAC system back to the mains serving the floor
- › New air handling unit to serve the 2nd floor, high percentage of outside air
- › VAV Exhaust system with air valves to reduce energy when not required to be at full exhaust mode. Fans will be high plume fans with an N + 1 redundancy
- › New plumbing fixtures and domestic hot and cold water system piping
- › Specialty water systems including deionized water (DI) and reverse osmosis (RO)
- › Clean dry compressed air system (CDA) to serve the lab
- › Sanitary system to extend to the existing. The sinks that require acid waste will have localized acid neutralizers



PROJECT REFERENCE

Kenny Rockwell
Manager, Design & Construction Planning
WVU Medicine
PH: 304-598-4125
kenny.rockwell1@wvumedicine.org



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

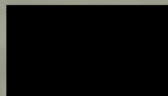
To all to whom these presents shall come, Greeting.

Know Ye That The State Board of Registration for Professional Engineers,
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity and Discretion of

Richard A. Colebank

DOES, IN PURSUANCE OF AUTHORITY VESTED IN IT
by law, hereby certify that he, having submitted
satisfactory evidence of his ability and experience, is a
REGISTERED PROFESSIONAL ENGINEER

Registration Number



To Hold and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand and the Seal
of the Board at the Capitol in the
City of Charleston,
this 23rd day of Feb. in the
year of our Lord One Thousand
Nine Hundred and Eighty-Eight
and of the State the One Hundred
Twenty-Fourth.

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

Frank L. Gaddy

By
Secretary: *Monroe P. Jickles* President: *Robert B. Scott*
Kenneth H. Means



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come, Greeting

Know Ye That The State Board of Registration for Professional Engineers, of the State of West Virginia, reposing special confidence in the Intelligence, Integrity and Discretion of

Charles B. Branch

DOES, IN PURSUANCE OF AUTHORITY VESTED IN IT
by law, hereby certify that he, having submitted
satisfactory evidence of his ability and experience, is a
REGISTERED PROFESSIONAL ENGINEER

Registration Number [REDACTED]

(To Hold) and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand and the Seal
of the Board at the Capitol in the
City of Charleston,
this 18th day of February in the
year of our Lord 2002
and of the State the One Hundred
Thirty-Eighth

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

L. J. Puckett

By Frank D. Goddy

L. J. Puckett, Jr.

[Signature]

[Signature]

The Board of Architects



of West Virginia.

No. [REDACTED]

This Certifies that Rebecca Jean Key of Baltimore
in the State of Maryland, having successfully passed an examination
before the Board of Architects of the State of West Virginia, and being
otherwise qualified, is hereby authorized to practice Architecture in all its
branches in the State of West Virginia.



Witness the signatures of the President and Secretary of the Board of
Architects of West Virginia, and the seal of said Board, this 26th
day of September 1994

Will E. Johnson

President.

E. Keith Dean

Secretary.



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come Greeting

"Know Ye" That The State Board of Registration for Professional Engineers
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity and Discretion of

Bradley H. Casdorph

DOES IN PURSUANCE OF AUTHORITY VESTED IN IT

by law hereby certify that he having submitted
satisfactory evidence of his ability and experience is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number [REDACTED]

(To Hold) and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand of the
Seal of the Board at the Capitol in the
City of Charleston,
This 29th day of December
in the year of our Lord 2005
and of the State
the One Hundred Forty-Second

Members of the Board

Leland D. Thomas, Jr.

Richard E. Dlyns

Bhajan S. Saha

William E. Viers

[Signature]



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come Greeting
"Know Ye" That The State Board of Registration for Professional Engineers
of the State of West Virginia, reposing special confidence in
the Intelligence, Integrity and Discretion of

Matthew T. Echard

DOES IN PURSUANCE OF AUTHORITY VESTED IN IT

by law hereby certify that he having submitted
satisfactory evidence of his ability and experience is a

REGISTERED PROFESSIONAL ENGINEER

Registration Number [REDACTED]

"To Hold" and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand of the
Seal of the Board at the Capitol in the
City of Charleston,
This 17th day of August
in the year of our Lord 2012
and of the State
the One Hundred Forty-Ninth

Members of the Board

Louise D. Thomas, Jr.

Richard E. Dlyna

Bhajan S. Saha

William E. Pierson

[Signature]



STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

To all to whom these presents shall come, Greeting.

Know Ye That The State Board of Registration for Professional Engineers, of the State of West Virginia, reposing special confidence in the Intelligence, Integrity and Discretion of

Charles B. Luttrell

DOES, IN PURSUANCE OF AUTHORITY VESTED IN IT
by law, hereby certify that he, having submitted
satisfactory evidence of his ability and experience, is a
REGISTERED PROFESSIONAL ENGINEER

Registration Number [REDACTED]

To Hold and use such title in the practice of his profession,
subject to the conditions prescribed by law.



Given under the hand and the Seal
of the Board at the Capitol in the
City of Charleston
this 28th day of July in the
year of our Lord One Thousand
Nine Hundred and Ninety-nine
and of the State the One Hundred
Thirty-sixth.

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

For Record

Frank H. Naddy

W. L. Lunde
L. J. Lunde

W. B. Faulkner

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*

ALPHA ASSOCIATES, INC.

C00012-00

Engineer in Responsible Charge: RICHARD A. COLEBANK - WV PE 010346

*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:*

January 1, 2020 - December 31, 2021

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.



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

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