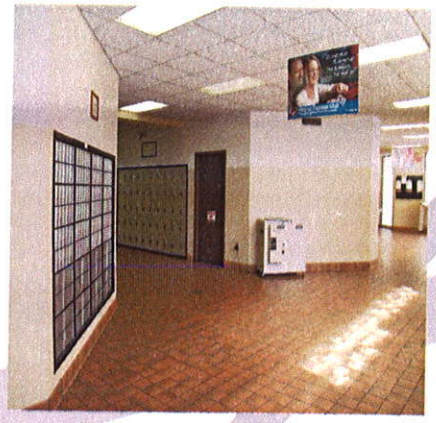
Alpha
ARCHITECTS ENGINEERS

DEFK12012: Mail Processing Center and ID Card Issue Center

Architectural/Engineering Services

February 7, 2012
EXPRESSION OF INTEREST



think Alpha first.com

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

Request for Quotation

RFQ NUMBER	PAGE
DEFK12012	1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
TARA LYLE
304-558-2544

VENDOR
RFQ COPY
TYPE NAME/ADDRESS HERE
Alpha Associates, Incorporated
209 Prairie Avenue
Morgantown, WV 26501

SHIP TO
DIV ENGINEERING & FACILITIES
ARMORY BOARD SECTION

1707 COONSKIN DRIVE
CHARLESTON, WV
25311-1099 304-341-6368

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
12/22/2011				

BID OPENING DATE: 02/07/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1 A/E SERVICES	JB		906-07		

EXPRESSION OF INTEREST (EOI)

THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, DIVISION OF ENGINEERING & FACILITIES, WV ARMY NATIONAL GUARD, IS SOLICITING EXPRESSIONS OF INTEREST FOR PROFESSIONAL ARCHITECTURAL ENGINEERING DESIGN SERVICES FOR A MAIL PROCESSING CENTER AND ID CARD ISSUE CENTER AT CAMP DAWSON LOCATED IN KINGWOOD, WV PER THE FOLLOWING BID REQUIREMENTS AND ATTACHED SPECIFICATIONS TECHNICAL QUESTIONS CONCERNING THIS SOLICIIATION MUST BE SUBMITTED IN WRITING TO TARA LYLE VIA MAIL AT THE ADDRESS SHOWN IN THE BODY OF THIS EOI, VIA FAX AT 304-558-4115, OR VIA EMAIL AT TARA.L.LYLE@WV.GOV.

DEADLINE FOR ALL TECHNICAL QUESTIONS IS 01/20/2012 AT THE CLOSE OF BUSINESS. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL ADDENDUM ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.

CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
[signature]	304-296-8216	02-03-12

TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE
President and COO	55-0516286	

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

State of West Virginia
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RFQ NUMBER	PAGE
DEFK12012	2

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BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.

NOTICE

A SIGNED BID MUST BE SUBMITTED TO:

DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
BUILDING 15
2019 WASHINGTON STREET, EAST
CHARLESTON, WV 25305-0130

THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:

SEALED BID

BUYER:----------TL/32----------

RFQ. NO.:----------DEFK12012----------

BID OPENING DATE:---------02/07/2012----------

BID OPENING TIME:-------1:30 PM----------

PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
	304-296-8216	02-03-12
TITLE President and COO	FEIN 55-0516286	ADDRESS CHANGES TO BE NOTED ABOVE

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Department of Administration
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Request for Quotation

RFQ NUMBER	PAGE
DEFK12012	3

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12/22/2011				

BID OPENING DATE: 02/07/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
	TO CONTACT YOU REGARDING YOUR BID: 304-296-8216					
	CONTACT PERSON (PLEASE PRINT CLEARLY): Richard A. Colebank					
	****** THIS IS THE END OF RFQ DEFK12012 ****** TOTAL:					

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
[signature]	304-296-8216	02-03-12

TITLE	FEIN	
President and COO	55-0516286	ADDRESS CHANGES TO BE NOTED ABOVE

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

000015

RFQ No. DEFK12012

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate

DEFINITIONS:
"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, Limited Liability Company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

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

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: Alpha Associates, Incorporated

Authorized Signature: _____ Date: 2-6-12

State of West Virginia

County of Monongalia, to-wit:

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

My Commission expires _____, 20___.

AFFIX SEAL HERE **NOTORY PUBLIC** _____

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Department of Administration
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ADDENDUM NO. 1

1. QUESTIONS AND ANSWERS ATTACHED.

2. ADDENDUM ACKNOWLEDGEMENT IS ATTACHED. THIS DOCUMENT SHOULD BE SIGNED AND RETURNED WITH YOUR BID. FAILURE TO SIGN AND RETURN MAY RESULT IN DISQUALIFICATION OF YOUR BID.

END OF ADDENDUM NO. 1

0001	1	JB		906-07		

A/E SERVICES

****** THIS IS THE END OF RFQ DEFK12012 ****** TOTAL:

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE [signature] TELEPHONE 304-2968216 DATE 02-03-12

TITLE President and COO FEIN 55-0516286 ADDRESS CHANGES TO BE NOTED ABOVE

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

EXHIBIT 10

REQUISITION NO.: DEFK12012

ADDENDUM ACKNOWLEDGEMENT

I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.

ADDENDUM NO.'S:

NO. 1 X

NO. 2 .....

NO. 3 .....

NO. 4 .....

NO. 5 .....

I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS. VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.

[signature], President & CEO

SIGNATURE

Alpha Associates, Incorporated

COMPANY

2/6/2012

DATE

REV. 11/96

Alpha
ARCHITECTS ENGINEERS

February 7, 2012

Purchasing Division
2019 Washington Street, East
P.O. Box 50130
Charleston, WV 25305-0130

Attn: Ms. Tara Lyle

Re: Expression of Interest – A/E Services
RFQ # DEFK12012 – Mail Processing Center and ID Card Issue Center

Dear Ms. Lyle,

Alpha Associates, Incorporated has the knowledge and experience needed to complete the design of your new Mail Processing Center and ID Card Issue Center at Camp Dawson. We have a variety of experience that will be useful to you on this project. Alpha has designed:

- Multiple postal facilities.
- Several pre-engineered metal buildings.
- Projects that are applying for Leadership in Energy and Environmental Design (LEED) Certification (Both Gold and Silver).
- Facilities incorporating Anti-Terrorism and Force Protection (AT/FP) measures.

This experience, along with our knowledge of working with the West Virginia Army National Guard makes Alpha the perfect partner for you on this project. We will use the knowledge and experience we have gained from past projects to ensure your satisfaction and the success of your new Mail Processing Center and ID Card Issue Center.

Architecture, civil and structural engineering, landscape design, interior design and surveying are all in-house design services at Alpha. We have a staff of 33 professionals and support staff that will be dedicated to the success of your project.

Alpha has chosen H.F. Lenz Company, located in Johnstown, PA to provide Mechanical, Electrical and Plumbing Engineering design services as part of our

209 Prairie Avenue / Morgantown, WV 26501-5934
304.296.8216 / 800.640.8216 / 304.296.8216 fax

Alpha Associates, Incorporated has developed a team that will provide a multitude of services for the West Virginia Army National Guard. Based on Alpha's knowledge and understanding of this project, the team was developed to best fit your needs.

Projects at Alpha are managed by an owner of the firm. In your case, Richard A. Colebank, PE, PS, will be the Principal-In-Charge. Rick, the President and COO of Alpha will be your single point of contact and will manage not only Alpha's internal staff, but also the consultant we have chosen to supplement Alpha's in house services.

The following Building Design Approach is to maximize the Security AT/FP Threat:

There will be an Initial Meeting with Stakeholders. During this phase Alpha will work with you to determine your programmatic requirements. This will help us to determine the direction the design will take. After gathering information we will make recommendations for the design.

A development or review of Vulnerability Checklist as it relates to the Mail Facility will need to be completed. If one does not already exist, then we will work with the stakeholders to determine the vulnerability.

A building Security Program consists of four major elements:

- Policies & Procedures - Operational Security Guidelines
- Personnel – Operational Security Guidelines
- Facilities- Site and Building
- Systems & Equipment-Alarms, Detections, Warnings, Redundant Systems

A building (Facility) Threat Assessment and Vulnerability Analysis should be conducted with those that are in charge of developing operational security, based upon known vulnerabilities and anticipated threats.

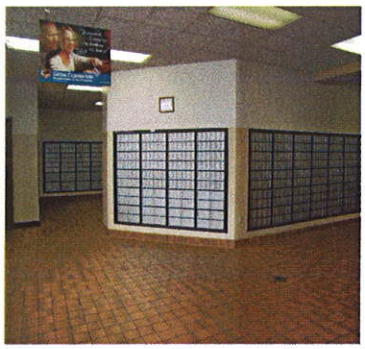
The design should pay special attention to exterior circulation/vehicular access to the site. Site access points should be limited to one means of public egress and one means of service egress. Pedestrian access should be different from vehicular and parking may or may not be allowed near the building. Considerations of type of perimeter security, (fixed in place or electronic) lighting and planting, vehicular barriers, etc. should be part of the discussions with the design reflecting those requirements.

The building envelope itself is the most challenging against exterior threats. The operational response will want to respond to openings in the building envelope; i.e.; windows, doors, ventilation louvers, and in some cases the roof. Depending upon the threat level, these access points may have to be limited and will affect the design of the structure. The structure if threatened by a bomb blast should avoid progressive collapse in the design, by not being dependent upon one or two major structural elements, and allow the loads the be transferred beam to beam, beam to column and floor to beam, etc.

Mechanical and Electrical systems may warrant back-up systems, so that the building may continue to function enabling either evacuation or continued operation in-place without evacuation.

The degree of threat protection is directly related to threat vulnerability, the threat assessment is a vital tool to be utilized for the proper programming and ultimate design of the building. Without it, economic efficiencies are difficult to obtain. Security that is "designed" into the building is the most economical solution. Add-ons are always difficult to provide, however, sometimes necessary because of changing threats.

Alpha
ARCHITECTS ENGINEERS



Firm Profile

FIRM NAME
Alpha Associates, Incorporated

CORPORATE OFFICE
209 Prairie Avenue
Morgantown, West Virginia 26501

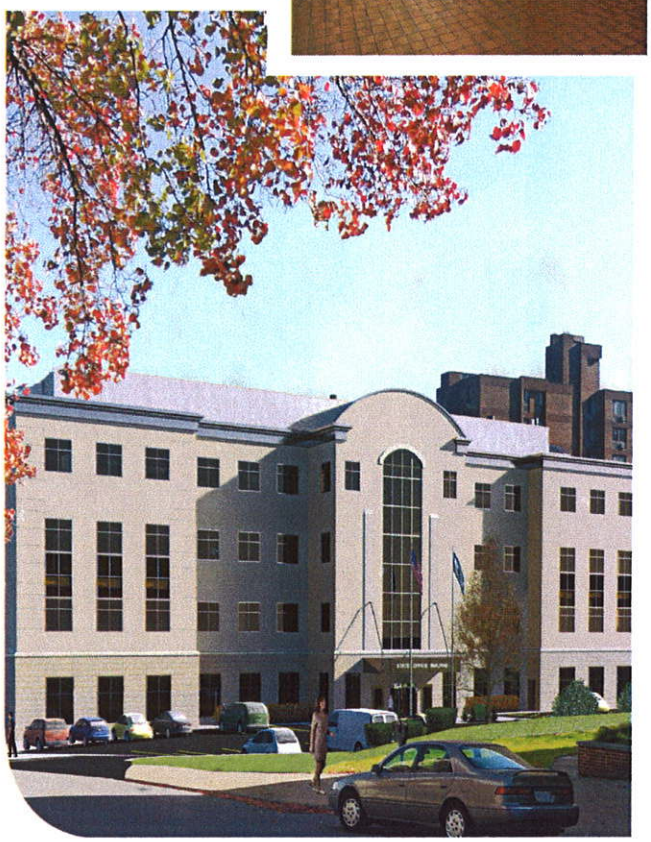
EASTERN REGIONAL OFFICE
535 West King Street
Martinsburg, West Virginia 25401

INCORPORATED
1969; Morgantown, WV

FIRM PRINCIPALS
Richard A. Colebank, PE, PS; President and COO
Richard W. Klein, PE, PS; Chairman and CEO
James A. Davison, AIA; Vice President
Charles B. Luttrell, PE; Principal
Steven V. Buchanan, PE, PS; Principal
Matthew S. Breakey, AIA, LEED-AP; Principal
Charles B. Branch, PE; Principal

NUMBER OF EMPLOYEES
33 Employees

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



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

think Alpha first.com

H.F. LENZ COMPANY

H.F. Lenz Company Professional Qualifications

H.F. Lenz Company is a 175-person engineering firm encompassing the disciplines of mechanical, electrical, plumbing, fire protection/life safety, telecommunications, structural and civil engineering services including surveying services.

Over 85 percent of H.F. Lenz Company's projects are for repeat clients. Our government team, which is our core team for this project, has worked on all of our indefinite quantity contracts for the U.S. Army Corps of Engineers and the U.S. Postal Service since 1990. Our professional services have not only included the basic design and construction administration process but also preparation of DD Form 1391, feasibility studies, master plans, programming, site planning, space planning and other types of investigative services, as well as commissioning services. Since 1984, we have received over 20 indefinite quantity/indefinite delivery contracts from federal agencies.

Thomas F. Deter, P.E., Principal of our firm, will serve as Principal-in-Charge for this contract. Tom has successfully managed indefinite quantity contracts for the U.S. Army Corps of Engineers, U.S. Postal Service, U.S. General Services Administration, Pennsylvania DCNR, and several private clients.

In addition to our IDQ experience with DOD and USPS facilities, we have extensive experience with projects for various federal facilities including numerous courthouses and correction institutions, and projects that required strict security and anti-terrorism projection, advanced computer facilities, building automation systems, and substantial renovations for single and multi-tenant end users.

POSTAL FACILITIES EXPERIENCE

In 1987 the H.F. Lenz Company was awarded our first term contract with the U.S. Postal Service for the Johnstown, Pennsylvania MSC Area. The U.S. Postal Service exercised both possible option years under this contract. Subsequently, the firm has held three term contracts as the Prime Consultant and five term contracts as a subconsultant. Projects assigned under these contracts involved a variety of repairs and alterations requiring mechanical, electrical, plumbing, civil, and structural engineering services.

Alpha
ARCHITECTS ENGINEERS

SECURE FACILITY DESIGN

Our entire team understands the absolute necessity of providing effective security protection for government and other facilities against the threat of terrorism. Both Alpha Associates, Inc. and H.F. Lenz Company have recently completed multiple design projects incorporating these types of security features.

Alpha Associates recently completed the design of the Monongalia County Sheriff's Building in Morgantown, West Virginia. Restricted access, combined with a high level of security, both passive and active systems were part of the design program for this project. Another project we recently designed was a new Administrative Building for the Federal Bureau of Prisons in Hazelton, West Virginia. This building serves both secure and non-secure activities with reduced sound transmission in certain areas.

Our design partner, H.F. Lenz Company, recently completed a site design project for an Army Reserve Aviation Facility following the "DOD Minimum Anti-Terrorism Standards for Buildings". Under a Term Contract with the Social Security Administration (SSA), H.F. Lenz Company was hired to survey ten major SSA facilities in the U.S. to evaluate compliance with the guidance document titled "Guidance for Protecting Environments for Airborne Chemical, Biological, or Radiological (CBR) Attacks." The work involved recommending ways of tightening physical security around building ventilation systems and other vulnerable areas to minimize the threat of CBR attacks. Areas and or issues investigated included: materials receiving areas, mail handling areas, particulate filtration systems, ATC single-point containment, and public vs. secure spaces.

Our team has the knowledge and experience needed to ensure your new facility meets the Anti-Terrorism and Force Protection (AT/FP) measures required.

COMMISSIONING EXPERIENCE

The commissioning process is a detailed and intense process that verifies that the systems are operating properly, efficiently, safely, and that they meet the design objectives.

H.F. Lenz Company has been providing commissioning services for over 30 years. In addition to our own projects, we commonly commission building systems designed by other professionals.

Our commissioning personnel each have from 10 to 32 years experience and are well versed in all aspects of the commissioning process from the design phase through the construction phase and operations phase/post acceptance phase. Commissioning services are carried out by our seven-member Field Services Division and also by members of our design teams. When these groups coordinate the commissioning responsibilities between them, the result is a fully commissioned project that has the benefit of our engineering knowledge of "hands-on" field installation/testing coupled with an in-depth understanding of design standards and practices.

Our commissioning experience includes college and university facilities, data centers, operations centers, office buildings, and industrial facilities.

H.F. Lenz Company has performed additional commissioning as required by LEED™ Energy & Atmosphere Credit 3 in addition to the Fundamental Building Systems Commissioning required by the LEED™ Energy & Atmosphere prerequisite. We have performed LEED™ commissioning for LEED™ registered projects such as the Siemens Westinghouse Fuel Cell Facility, the Western Pennsylvania Conservatory Bear Run Interpretive Center, CastCon Stone, Inc. and Carnegie Mellon University's Henderson House Dormitory.

LEED™ Commissioning verifies and ensures that fundamental building elements and systems are designed, installed and calibrated to operate as intended.

Operation and Troubleshooting of HVAC System

All of our commissioning personnel have extensive experience in the installation, operation, repair, preventive maintenance, and commissioning of HVAC Systems and Building Automation Systems for institutional and commercial buildings. This allows our team members to assist the contractors during the testing phase to quickly and efficiently determine operating problems and implement resolutions. When possible, we prefer to resolve issues in lieu of forming a list of items to be resolved sometime in the future. This is just another attribute which enables our commissioning team to provide a superior service compared to others.

Direct Digital Control (DDC) Systems

The Direct Digital Control (DDC) System is one of the most important tools available to our commissioning team. Our experience ranges from simple to the most complex systems. Today's DDC systems can interact with multiple building systems including fire alarm, lighting control, power monitoring, security, card access, and telecommunications. Our intent is to verify that the DDC system has been installed and is working as designed, while looking for opportunities to improve upon its intended operation.

H.F. Lenz Company commissioning personnel is familiar with the various types of programming interfaces available from all of the major control vendors. Our team makes use of graphics and

trending capabilities available through the DDC system to analyze the operation of not only the individual equipment operation, but also how the system functions as a whole. Remote access to the DDC system allows our team to monitor and comment on the system operation even when not on site.

Our approach to commissioning the DDC system starts with installation verification checklists of all equipment and subsystems. Next, the prefunctional checklists document the basic monitored parameters such as time of day, start/stop control, temperature, proof of flow, voltage, and amperage that are not always recorded on the as-built control drawings. Functional testing commences once all start-up and checkout procedures are completed, and all systems have been 100% point-to-point tested. These checks are not intended to replace the contractor's normal responsibilities, but to add another level of verification and quality assurance. Functional testing procedures are developed specifically for each project and encompass all operational sequences.

Lighting Control Systems

Our Commissioning Team consists of Lighting Designers and Electrical Engineers who are experienced in a variety of control systems from digital addressable lighting interfaces (DALI) to daylight harvesting and schedule based controls systems.

The complexity of lighting control system testing ranges from visual inspection to data logging and trending. Our team utilizes light meters and data loggers equipped with Illuminance sensors to verify the systems operation and performance.

Testing, Adjusting, and Balancing (TAB) of HVAC Systems

Our Commissioning Team has extensive experience in the test and balance (TAB) of both air and water systems through a 30-year relationship with a mechanical contractor/TAB firm with whom we have collaborated on dozens of projects involving office buildings, college and university facilities, government buildings, and other commercial and institutional buildings. This experience consists of reviewing the TAB plan, reviewing TAB reports, spot testing, and rechecking selected readings to validate results. Our team is familiar with pitot tubes, thermal dispersion devices, manometers, pressure gages, digital thermometers, and other TAB equipment.

Our commissioning personnel hold a major advantage in that they understand the air and water systems from a holistic perspective. This comes from their experience with the design, control aspects, installation, operation, and maintenance of the systems they are being asked to commission.

Building Operations and Maintenance

Many of our commissioning engineers and technicians have "hands-on" experience in operations & maintenance procedures along with a facilities management background. Some of our clients find it difficult to hire qualified operations personnel, thus they have asked our firm to review their mechanical and electrical operations. As an example, we have recently assisted a major insurance company in conducting a nationwide Facilities Operations Program for their various sites. The program involves H.F. Lenz Company personnel conducting site audits to review standard operating procedures, preventive maintenance programs, and service agreements. A major part of the program involves the commissioning of critical mechanical and electrical systems to confirm proper operation. The systems are put through various operational and failure scenarios, results are documented, improvements recommended, and final reports issued. We then conduct training workshops with the owner's personnel to review findings and provide training on proper system operation.

Energy Efficient Systems Design

Our Commissioning Authority, Paul Petrilli, and the Commissioning Engineer, John Dombrowski, are licensed Professional Engineers with very strong backgrounds in the design of energy efficient mechanical and electrical equipment. Both of these individuals are LEED™ Accredited Professionals and head up most of the firm's Green Building projects. They have designed central heating and cooling plants that use 50% less energy through the proper matching of equipment to loads and by the use of high efficiency chillers and boilers. Their designs also incorporate water-side free cooling, high efficiency lighting systems, and the controlled use of outside air to maintain indoor air quality while limiting energy consumption. Their energy efficient design of the Siemens Westinghouse Fuel Cell Facility near Pittsburgh resulted in overall energy costs that are less than 50% of the cost of an ASHRAE/IESNA 90.1-1999 compliant building. Their design of a new visitor's center at New River Gorge National River in West Virginia used a closed, ground-coupled geothermal heat pump system, radiant floor heating, reduced ambient light levels, daylighting controls, dedicated ventilation with heat recovery and CO2 controls to reduce overall energy consumption by over 50%.

Control Strategy Optimization

Our Commissioning team has valuable experience in all aspects of control system optimization. Members of our team have been involved with sustainable designs for over 15 years, while others are previous employees of major controls and contracting companies. While the typical project's controls are written to simply "turn equipment off and on", we work with the design team, along with the equipment manufacturers, to determine the "sweet spots" in operation and perform computer systems modeling to look at the control sequence's affect on the whole system and not just a single component.
During the design review phase, our team assesses the Controls and Sequences of Operation to verify the proper function and data acquisition is occurring through the entire control system. We provide feedback to the Designers and Owner as to the possible adjustments that can be made in order for the system to operate more efficiently. In addition, our team examines the control system submittals to confirm that the system is complete and includes all the necessary components required for full operation as the design intention.

During the functional testing phase of commissioning, we verify that all sequences have been implemented, optimized, and are functioning as intended. Our commissioning personal work with the Controls Contractor to develop trending logs and data acquisition procedures that are necessary to analyze how the components are operating and responding as a complete system.

Writing Commissioning Specifications and Test Procedures

Commissioning specifications and test procedures are written by our Commissioning Authority and/or Commissioning Engineers for all projects in which the firm has been hired as the Commissioning Provider.

Relevant Project Experience

Franklin County
New Courthouse
Columbus, Ohio
LEED™ Fundamental Commissioning and Enhanced Commissioning for a new 300,000 sq.ft. county courthouse; Project includes building envelope commissioning; Project goal is LEED™ Silver

Adelphia Communications
Data Center
Coudersport, Pennsylvania
Complete commissioning services for a new 80,640 sq.ft. data center designed to accommodate approximately 3,000 servers

Adelphia Communications
Operations Building
Coudersport, Pennsylvania
Commissioning of the UPS system, standby power system, automatic temperature controls, and fire alarm systems for a new three-story operations building

Altoona Hospital
New Outpatient Tower
Altoona, Pennsylvania
Commissioning services for a 153,000 sq.ft. outpatient tower

Arcadia College
Health and Sciences Building
Philadelphia, Pennsylvania
Commissioning services for a new 50,000 sq.ft. classroom/laboratory building

BNY Mellon
BNY Mellon Center 30th and 31st Floors
Pittsburgh, Pennsylvania
LEED Commercial Interiors (CI) Fundamental Commissioning services for a 2-floor, 41,000 sq.ft. tenant space renovation in a 55-story, 1,525,000 sq.ft. building; ***Project has received a LEED Gold Rating***

Butler Health System
Butler, Pennsylvania
Commissioning Services for a new $152 million, 200,000 sq.ft. seven-story patient tower; the project also included an expansion of outpatient services and renovated quarters for heart and joint surgery including eight operating rooms

CarMax, Inc.
Corporate Office Building
Richmond, Virginia
LEED™ Fundamental Commissioning and Enhanced Commissioning for a new 240,000 sq.ft. corporate headquarters, designed to house approximately 600 employees, and consists of interconnected office buildings, a fitness center, and an 800-car parking garage; ***Project has received a LEED™ Silver Rating***

Carnegie Mellon University
300 S. Craig Street
Pittsburgh, Pennsylvania
LEED™ Fundamental Commissioning services and engineering services for the renovation of the 72,500 sq.ft. former Association of the Blind building into a mixed-use facility including office, classroom, conference, retail/restaurant, and campus security spaces; ***Project has received a LEED™ Silver Rating***

Case Western Reserve University
Structural Biology Research Facility
Cleveland, Ohio
Commissioning services for a new 20,000 sq.ft. Structural Biology Research Facility

CastCon Stone, Inc.
New Office and Manufacturing Facility
Saxonburg, Pennsylvania
LEED™ Fundamental Commissioning services for a new 35,000 sq.ft "green" state-of-the-art precast concrete manufacturing facility; Project goal is LEED™ Certified

Concord EFS (First Data) - UPS System
Wilmington, Delaware
Commissioning of a new uninterruptible power supply system to improve the electrical power continuity and reliability of the data center

Eaton Corp.
Moon Township, Pennsylvania
LEED™ Fundamental Commissioning and Enhanced Commissioning for a new 120,000 sq.ft. technology center addition; Project goal is LEED™ Gold

Franklin County Convention Facilities Authority
Hilton Columbus Downtown
Columbus Ohio
LEED Fundamental Commissioning and Enhanced Commissioning for a new 532-room hotel attached via skybridge to the Greater Columbus Convention Center

Major Insurance Company
Several U.S. Locations

- Commissioning services for a 280,000 sq.ft. and a 320,000 sq.ft. call center
- Commissioning services for a 86,000 sq.ft. state-of-the-art mission critical data center
- Commissioning services for a new 197,000 sq.ft. Tier-4 data center
- Commissioning services for the critical power distribution and emergency power systems
- Facility operations audits including commissioning of critical systems at various locations throughout the U.S.

Massaro Corporation
New Building Addition
Pittsburgh, Pennsylvania
LEED Fundamental Commissioning and Enhanced Commissioning for a 8,100 sq.ft. office building addition; ***Project has received a LEED Certified Rating***

Mellon Financial Corporation
Operations Center
Pittsburgh, Pennsylvania
Design and Commissioning of HVAC, plumbing, fire protection, electrical, and communications systems for the new 14-story, 750,000 sq.ft. operations center, which also houses a data processing facility

Mountain State Blue Cross Blue Shield
Parkersburg, West Virginia
LEED Fundamental Commissioning and Enhanced Commissioning for a new 125,000 sq.ft., 4-story office building; ***Project has received a LEED Silver Rating***

NaviSite Data Center
Andover, Massachusetts
Design and Commissioning of a new 150,000 sq.ft. internet data center and Network Operations Center

Pennsylvania DCNR
New Office Building at Penn Nursery
Potter Township, Pennsylvania
LEED Fundamental Commissioning for a new 5,200 sq.ft. office building; Project goal is LEED Gold

PRAXAIR
Emergency Power/UPS
Danbury, Connecticut
Commissioning of a new Emergency Power System consisting of two 400 kW generators, two 1,600 AMP ATS', and two 160 kW UPS serving an actively functioning data center

Social Security Administration
Operations Building
Wilkes-Barre, Pennsylvania
Complete commissioning services for a new 240,000 sq.ft. data operations center

U.S. Drug Enforcement Administration
New Office Building
Pittsburgh, Pennsylvania
LEED Fundamental Commissioning for a new 50,000 sq.ft., two-story office building; ***Project has received a LEED Certified rating***

Alpha
ARCHITECTS ENGINEERS

ALPHA EXPERIENCE

Fairmont Post Office | 1985

Architectural Case Study

Fairmont Post Office

Fairmont, WV

Alpha Associates, Incorporated provided architectural design, civil and structural engineering and surveying services for the $1.95 million Fairmont Post Office. The 25,000 square foot, two-story brick structure is located in the down downtown business area.

At a Glance

CLIENT:	**U.S. Postal Service**
LOCATION:	**Fairmont, WV**
COMPLETION DATE:	**1985**
SIZE:	**25,000 sq. ft.**
CONSTRUCTION COST:	**$1.95 Million**

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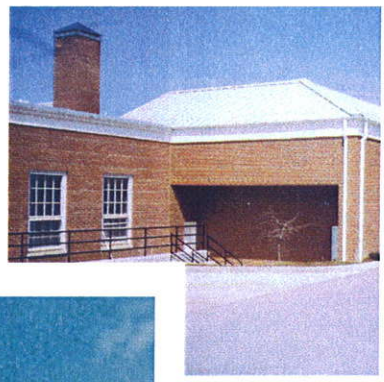

ALPHA EXPERIENCE

Lewisburg Post Office | 1990

Architectural Case Study

Lewisburg Post Office

Lewisburg, WV

Alpha Associates, Incorporated provided complete design, contract documents and construction administration services for this $1.1 Million historical renovation/addition project.

The renovation included 2,468 SF of the existing Post Office. The areas involved included the public lobby, lockboxes and work room spaces. The new 10,300 SF addition consists of a large work room, loading dock area, rest rooms and storage areas.

Lewisburg Post Office is on the National Register of Historic Places. Specific historic guidelines had to be met with the design of both the renovation and addition. Alpha staff members worked with City and State Officials in order to meet these regulations.

At a Glance

CLIENT: U.S. Postal Service
LOCATION: Lewisburg, WV
COMPLETION DATE: 1990
SIZE: 12,768 sq. ft.
CONSTRUCTION COST: $1.4 Million

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ALPHA EXPERIENCE

Clarksburg Postal Facility | 1990

Architectural Case Study

Clarksburg Postal Facility and Vechicle Maintenance Facility

Clarksburg, WV

Alpha Associates, Incorporated provided professional design services for this $10.5 million Mail Distribution Center. This facility includes a 132,550 SF General Mail Facility (GMF) and an 11,180 SF Vehicle Maintenance Facility (VMF).

The GMF consists of a 54,000 SF mail sorting/workroom with look-out galleries for security operations, and a 13,100 SF loading platform. In addition, this facility includes office space, expandable conference and training rooms, special operations, storage, maintenance, a luncheon room, lounge areas, equipment facilities, men's and women's locker rooms, restroom facilities and vault.

The VMF features a wash bay, a body shop, paint shop, diagnostic bay, a five loft service bays, office, parts and tools storage, tire repair, training and lunch room and restroom facilities. Civil Engineering Services included an access road, complex traffic design and parking lot.

At a Glance

CLIENT: U.S. Postal Service
LOCATION: Clarksburg, WV
COMPLETION DATE: 1990
SIZE: 143,750 sq. ft.
CONSTRUCTION COST: $10.5 Million

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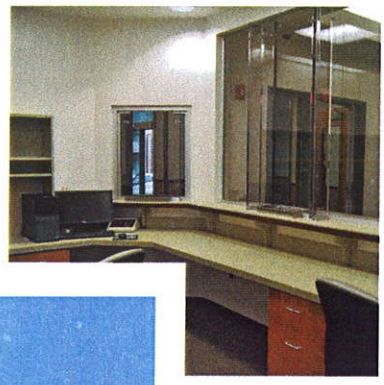

ALPHA EXPERIENCE

Sheriff's Building | 2011

Architectural Case Study

Monongalia County Sheriff's Building

Morgantown, WV

Alpha Associates, Incorporated provided architectural design, civil and structural engineering and surveying services for this new building that houses offices for the Monongalia County 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.

Project Manager:
Sheriff Al Kisner
155 Chancery Row
Morgantown, WV 26505
304-291-7290

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At a Glance

CLIENT:	**Mon County Commission**
LOCATION:	**Morgantown, WV**
COMPLETION DATE:	**2011**
SIZE:	**31,655 sq. ft.**
CONSTRUCTION COST:	**$7.9 Million**

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ALPHA EXPERIENCE

State Office Building | TBD

Architectural Case Study

West Virginia State Office Building

Clarksburg, WV

Alpha Associates, Incorporated provided architectural design, civil and structural engineering and surveying services for a new State Office Building in Clarksburg, WV. The building is designed as an 85,250 square foot, five story office building that will hold seven State agencies.

The structure is limestone and granite cladding over steel and concrete frame. The project incorporated certain security features that are designed to protect sensitive documents and occupants from various security threats.

The project will be applying for Silver Certification under LEED standards.

This project will go out for bidding in February 2012.

Project Manager:

David Hildreth

1409 Greenbrier Street

Charleston, WV 25311

304-558-0510

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At a Glance

CLIENT:	**State of West Virginia**
LOCATION:	**Clarksburg, WV**
COMPLETION DATE:	**TBD**
SIZE:	**85,250 sq. ft.**
CONSTRUCTION COST:	**Approx. $20 Million**

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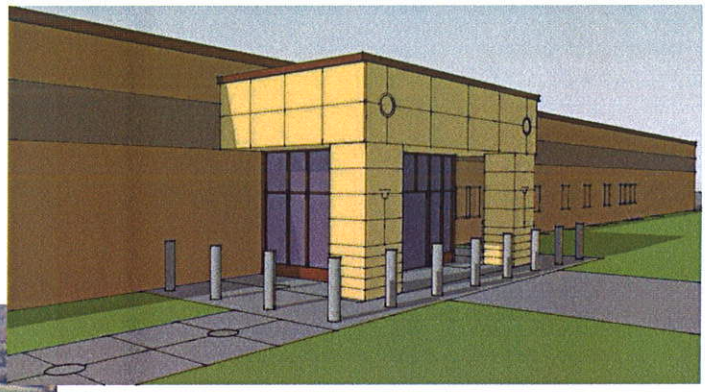

ALPHA EXPERIENCE

Administrative Building | 2012

Architectural Case Study

Federal Bureau of Prisons Administrative Building

Hazelton, WV

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.

At a Glance

CLIENT:	**Hensel Phelps Construction**
LOCATION:	**Hazelton, WV**
COMPLETION DATE:	**2012**
SIZE:	**13,805 sq. ft.**
CONSTRUCTION COST:	**Part of Larger Project**

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ALPHA EXPERIENCE

Parkersburg Armory | 2009

Architectural Case Study

Parkersburg Armory Renovation and Addition

Parkersburg, WV

Alpha continues their relationship with the West Virginia Army National Guard with the renovation of a space originally designated as a rifle range at the Parkersburg Armory.

New offices, conference room, and break room provide new work space for officers. A secondary entrance was included in the design to serve the department that will occupy this space.

A fire alarm upgrade for the entire building was also included in the project scope as well as an alternate for an access control system and mass notification system.

At a Glance

CLIENT:	**WV Army National Guard**
LOCATION:	**Parkersburg, WV**
COMPLETION DATE:	**2009**
SIZE:	**2600 sq. ft.**
CONSTRUCTION COST:	**$400,000**

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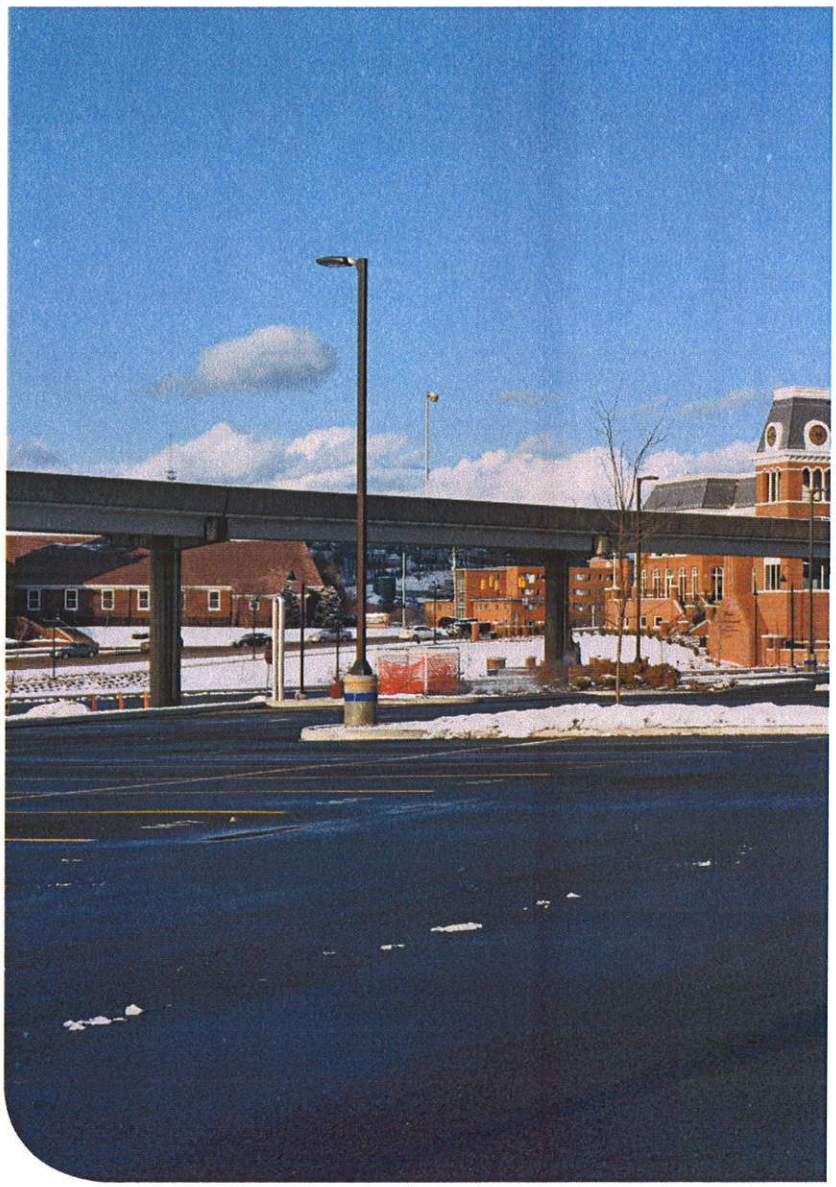

ALPHA EXPERIENCE

Alumni Center Parking Lots | 2008

Engineering Case Study

West Virginia University Alumni Center Parking Lots

Morgantown, WV

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.

Project Contact:
Paul Hanko
PO Box 4269
Morgantown, WV 26504
304-293-4731

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At a Glance

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

Projects Under Our Most Recent IDQs with the U.S. Postal Service Have Included:

U.S. Post Office
New Castle, Pennsylvania
- New Carrier Annex facility

U.S. Post Office
Dubois, Pennsylvania
- Retail facility

U.S. Post Office
Pittsburgh, Pennsylvania
- Marquis One – First and third floor renovations

U.S. Post Office
Greenville, South Carolina
- Lifecycle cost analysis

Pittsburgh Bulk Mail Center
Warrendale, Pennsylvania
- Entrance drive widening
- Retaining wall study

U.S. Post Office
Indiana, Pennsylvania
- Main office HVAC study and replacement

U.S. Post Office
Johnstown, Pennsylvania
- HVAC controls replacement
- Elevator door replacement

U.S. Post Office
Curwensville, Pennsylvania
- Fire damage correction

U.S. Post Office
Duncansville, Pennsylvania
- ALTA/ACSM survey

U.S. Post Office
St. Marys, West Virginia
- HVAC system replacement

U.S. Post Office
Weston, West Virginia
- HVAC system replacement

U.S. Post Office
Altoona, Pennsylvania
- Lobby upgrades and retail store study

U.S. Post Office
State College, Pennsylvania
- Study for renovations to lobby

U.S. Post Office
Tipton, Pennsylvania
- Damage assessment

U.S. Post Office
New Castle, Pennsylvania
- Workroom lighting replacement
- ATC system replacement

U.S. Post Office
Lynchburg Courthouse
Lynchburg, Virginia
- Intrusion detection system
- Breakroom revisions

U.S. Post Office
Erie, Pennsylvania
- Vehicle maintenance facility fire alarm

Additional U.S. Postal Service Facilities Projects Have Included:

Pittsburgh Bulk Mail Center
Warrendale, Pennsylvania
- Replacement of 1,200-ton chiller plant
- Chilled water distribution modifications
- Replacement of industrial air compressors
- Replacement of dust collection systems
- Cooling towers
- Gatehouse structural design

Proposed Bulk Mail Center
Davidsville, Pennsylvania
- Land survey and site feasibility study

General Mail Facility, EDC
Erie, Pennsylvania
- Office renovations

General Mail Facility
Pittsburgh, Pennsylvania
- Security and closed circuit television system upgrade

Processing and Distribution Center
Johnstown, Pennsylvania
- Land survey for the new facility
- HVAC Controls replacement

U.S. Post Office
Aliquippa, Pennsylvania
- Investigative survey report
- HVAC system replacement
- Workroom lighting replacement

U.S. Post Office
Altoona, Pennsylvania
- Investigative survey report
- Handicapped accessibility modifications
- Parking lot renovation
- Loading dock renovation
- Elevator upgrades
- Toilet room alterations

U.S. Post Office
Barnesboro, Pennsylvania
- Investigative survey report

U.S. Post Office
Bedford, Pennsylvania
- Boiler repair study

U.S. Post Office
Bellefonte, Pennsylvania
- Investigative survey report
- Lobby modifications

U.S. Post Office
Bethel Park, Pennsylvania
- Investigative survey report
- Air handling unit replacement

U.S. Post Office
Butler, Pennsylvania
- Investigative survey report
- Loading dock renovations
- Parking lot upgrades

U.S. Post Office
Central City, Pennsylvania
- Roof survey and evaluation

U.S. Post Office
DuBois, Pennsylvania
- Investigative survey report
- Feasibility study for adaptive reuse

U.S. Post Office
Dunlo, Pennsylvania
- Investigative survey report

U.S. Post Office
East Springfield, Pennsylvania
- Lobby lighting retrofit

U.S. Post Office
Emporium, Pennsylvania
- Investigative survey report
- Replacement of lighting fixtures

U.S. Post Office
Erie, Pennsylvania
- Fire Alarm System Replacement
- Chiller and Air Handling Unit Replacement
- HVAC Control System
- Freight Elevator Study

U.S. Post Office
South Station
Erie, Pennsylvania
- Investigative survey report
- Corrections to HVAC system

U.S. Post Office
Fairview, Pennsylvania
- Structural damage report due to auto accident

U.S. Post Office
Glenshaw, Pennsylvania
- Indoor air quality investigation

U.S. Post Office
Harrisburg, Pennsylvania
- New distribution center and lubritorium
- Passenger elevator controls

U.S. Post Office
Huntingdon, Pennsylvania
- Handicapped accessibility modifications

U.S. Post Office
Indiana, Pennsylvania
- Parking lot design
- Boiler repair study
- Boiler replacement

U.S. Post Office
Johnstown, Pennsylvania
- Loading dock renovation
- Investigative survey report
- Interior renovations
- Second door HVAC and controls
- Construction administration

U.S. Post Office
Meyersdale, Pennsylvania
- Investigative survey report

U.S. Post Office
New Castle, Pennsylvania
- Compressed air
- Loading dock

U.S. Post Office
Riverdale, Maryland
- Elevator report

U.S. Post Office
Rockville, Maryland
- Investigative survey report

U.S. Post Office
Sigel, Pennsylvania
- Investigative survey report
- Addition of air conditioning
- Replacement of lighting fixtures

U.S. Post Office
St. Mary's, Pennsylvania
- Investigative survey report
- Addition of air conditioning
- Electrical service upgrade
- Energy study

U.S. Post Office
State College, Pennsylvania
- Investigative survey report
- Fire alarm
- Lobby modifications

U.S. Post Office
Tyrone, Pennsylvania
- Sewer connection investigation survey

U.S. Post Office
Vehicle Maintenance Facility
Erie, Pennsylvania
- Fire alarm system replacement

U.S. Post Office
Warren, Pennsylvania
- Investigative survey report
- Elevator upgrades
- Structural revisions
- Elevator ventilation and heating upgrades
- Addition of elevator recall system

U.S. Post Office
Franklin, Pennsylvania
- Historic building – reconstructed cornice and parapets and replaced roof

U.S. Post Office
Greenville, Pennsylvania
- Historic building – completed a study and prepared design for reconstruction of cornice, parapets, and roof replacement

U.S. Post Office - Mail Processing and Distribution Facility
Johnstown, Pennsylvania
- Loading dock and dock door modifications

Architectural Barriers Compliance Surveys for approximately 55 facilities throughout Pennsylvania and West Virginia

EXPERIENCE WITH DOD PROJECTS

Camp Dawson
Kingwood, West Virginia
- Design of three new billeting facilities

U.S. ARMY CORPS OF ENGINEERS, BALTIMORE

Army Reserve Aviation Facility
Johnstown, Pennsylvania
- New 120,000 sq.ft. multi-building complex including an armed forces reserve center and an aviation maintenance shop

Army Reserve Center
Beckley, West Virginia
- New 300-member reserve center with training building and maintenance shop

Army Reserve Center
Morgantown, West Virginia
- New 300-member reserve center with training building and maintenance shop

Army Reserve Center
Wheeling, West Virginia
- New 284-member reserve center with training building and maintenance shop

Army Reserve Center
Rainelle, West Virginia
- New 200-member reserve center with training building and maintenance shop

Army Reserve Center
Weirton, West Virginia
- New 200-member reserve center with training building and maintenance shop

Army Reserve Center
Brownsville, Pennsylvania
- New 200-member reserve center with training building and maintenance shop

Army Reserve Center
Johnstown, Pennsylvania
- New 200-member reserve center with training building and maintenance shop

Army Reserve Center
Kingwood, West Virginia
- 100-member reserve center with training building and maintenance shop

Army Reserve Center
Grantsville, West Virginia
- New 100-member reserve center with training building and maintenance shop

Army Reserve Center
Elkins, West Virginia
- New 60-member reserve centers with training building and maintenance shop

Morlock Army Reserve Center
Pittsburgh, Pennsylvania
- HVAC modifications

Copely Army Reserve Center
Oil City, Pennsylvania
- Boiler addition

Steele Army Reserve Center
Pittsburgh, Pennsylvania
- Complete HVAC system replacement

Letterkenny Army Depot
Chambersburg, Pennsylvania
- Six indefinite-delivery contracts for mechanical, electrical, civil, and structural engineering and surveying services

Fort Ritchie, Maryland
- Two indefinite-delivery contracts for mechanical, electrical, civil, and structural engineering and surveying services

H.F. LENZ COMPANY

Ammunition Plant
Scranton, Pennsylvania
- Upgrade lighting system in production shop

911 Airlift Group
Greater Pittsburgh International Airport
Pittsburgh, Pennsylvania
- Study and design of new Base Civil Engineer Facility
- Indefinite delivery contract for architectural and engineering services

U.S. ARMY CORPS OF ENGINEERS, NORFOLK

Walter Reed Army Medical Center
Washington, D.C.
- Energy engineering analysis program, main hospital building

U.S. ARMY CORPS OF ENGINEERS, PHILADELPHIA

Corps of Engineers Offices
The Wanamaker Building
Philadelphia, Pennsylvania
- Tenant fit-up

PENNSYLVANIA DEPARTMENT OF MILITARY AFFAIRS

Ford City Armory
Ford City, Pennsylvania
- New 24,400 sq.ft. training center with classrooms and kitchen/dining facilities

NAVAL FACILITIES ENGINEERING COMMAND, NORTHERN DIVISION

Naval Air Station
Lakehurst, New Jersey
- Air conditioning tune-up study

Various Activities
Pennsylvania, New York, and New Jersey
- Specialized energy studies

Naval Ship Parts Control Center
Mechanicsburg, Pennsylvania
- Administrative facility improvements

NAVAL FACILITIES ENGINEERING COMMAND, CHESAPEAKE & ATLANTIC DIVISION

Naval Research Laboratory
Washington, D.C.
- Three indefinite delivery contracts for mechanical, electrical, and structural engineering services (Chesapeake Division)

Oceana Naval Station
Virginia Beach, Virginia
- Energy monitoring and control system
- Boiler plant modifications (Atlantic Division)

DEPARTMENT OF DEFENSE

National Drug Intelligence Center
Johnstown, Pennsylvania
- Tenant fit-up including base building support systems for SCIF areas

DEPARTMENT OF GENERAL SERVICES

Pennsylvania National Guard
Johnstown, Pennsylvania
- New 23,560 sq.ft. Regional Maintenance Facility

Alpha
ARCHITECTS ENGINEERS

ALPHA RESUMES

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

SUMMARY

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

PROFILE

Broad-based responsibilities in the following areas:

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

PROFESSIONAL HIGHLIGHTS

Project Manager:

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

Indefinite Delivery/Indefinite Quantity Contracts:

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

Alpha
ARCHITECTS ENGINEERS

ALPHA RESUMES

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

EMPLOYMENT HISTORY

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

EDUCATION

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

QUALIFICATIONS

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

Professional Surveyor: West Virginia
Certified Private Pilot

AFFILIATIONS

- WV Society of Professional Engineers
- National Society of Professional Engineers
- Former NSPE/PEPP Governor of WV
- ACEC/WV; Former President and Current National Director
- University High School Foundation; Charter Member; President
- Morgantown Area Chamber of Commerce; Past Chairman
- Monongalia County PO Technical Advisory Committee; Member
- Morgantown Area Economic Partnership; Member

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Contact
Richard A. Colebank
304.296.8216
800.640.8216
rick.colebank@thinkalphafirst.com

Alpha ARCHITECTS ENGINEERS

ALPHA RESUMES

Rebecca Key, AIA, LEED-AP | Architect, Associate

SUMMARY

Ms. Key has worked in the architectural field for over 34 years. She is Project Architect/Project Manager for numerous architectural designs at Alpha Associates, Incorporated. Ms. Key is involved from the programmatic stages and schematic designs all the way through construction documents to construction administration.

PROFILE

Broad-based responsibilities in the following areas:

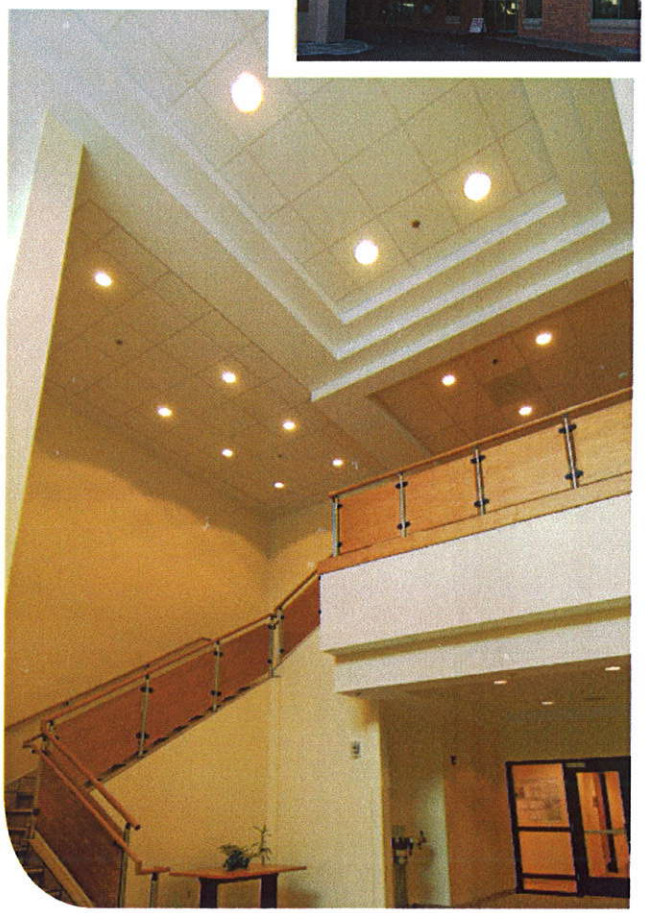
- Structural Inspections
- Architectural Design
- Interior Design
- Medical Design
- Interior Space Planning
- Historic Renovation

PROFESSIONAL HIGHLIGHTS

Architectural Design:

- WVU South Agricultural Sciences Building; Morgantown, WV
- Washington High School; Charles Town, WV
- Prichard Hall Renovation; Fairmont State University; Fairmont, WV
- WVU CRRB Renovation, 5th and 7th Floors; Morgantown, WV
- WVU Boreman Hall, Boreman Bistro; Morgantown, WV
- WVU Hatfields Restaurant; Morgantown, WV
- Hart Field Maintenance Facility; Morgantown, WV
- Norwood Fire Station; Morgantown, WV
- FMW Composites; Bridgeport, WV
- Hart Field Terminal Renovation; Morgantown, WV
- White Hall Municipal Building; White Hall, WV
- Mon County Family Court Renovation; Morgantown, WV
- Mon County Sheriff's Building; Morgantown, WV
- WV State Office Building; Clarksburg, WV
- Ruby McQuain Amphitheater Roof; Morgantown, WV
- Augusta Apartment Building; Morgantown, WV
- Cass Scenic Railroad Clubhouse Renovation; Cass, WV
- Berkeley Springs Bath House Renovation; Berkeley Springs, WV

Alpha
ARCHITECTS ENGINEERS



ALPHA RESUMES

Rebecca Key, AIA, LEED-AP | Architect, Associate

EMPLOYMENT HISTORY

2000 – Current	Alpha Associates, Incorporated
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: West Virginia, Maryland, Washington DC, New York, Virginia, Pennsylvania
- NCARB Certified
- Leadership In Energy and Environmental Design Accredited Professional

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

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Contact
Rebecca Key
304.296.8216
800.640.8216
rebecca.key@thinkalphafirst.com

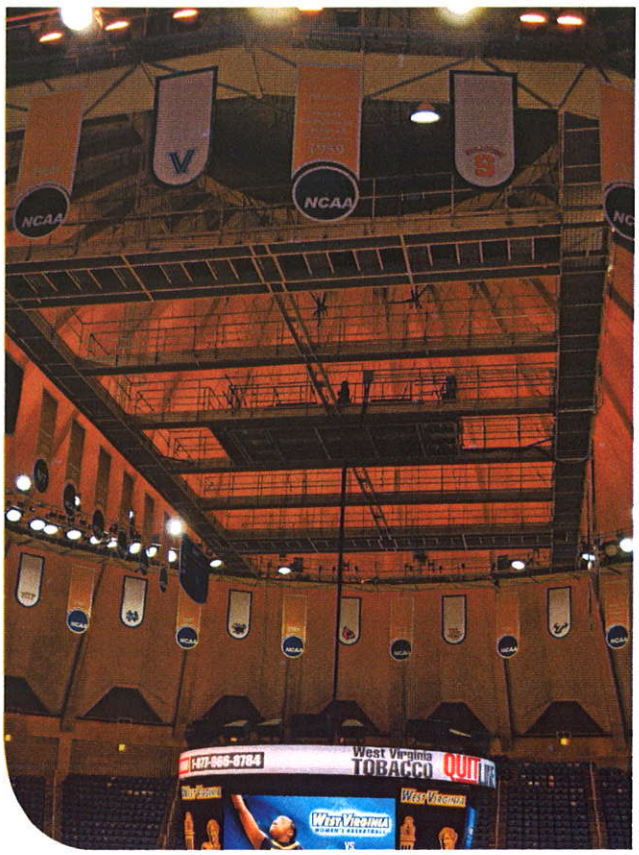
Alpha ARCHITECTS ENGINEERS

ALPHA RESUMES

Charles B. Luttrell, PE | Principal, Structural Engineer

SUMMARY

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



PROFILE

Broad-based responsibilities in the following areas:

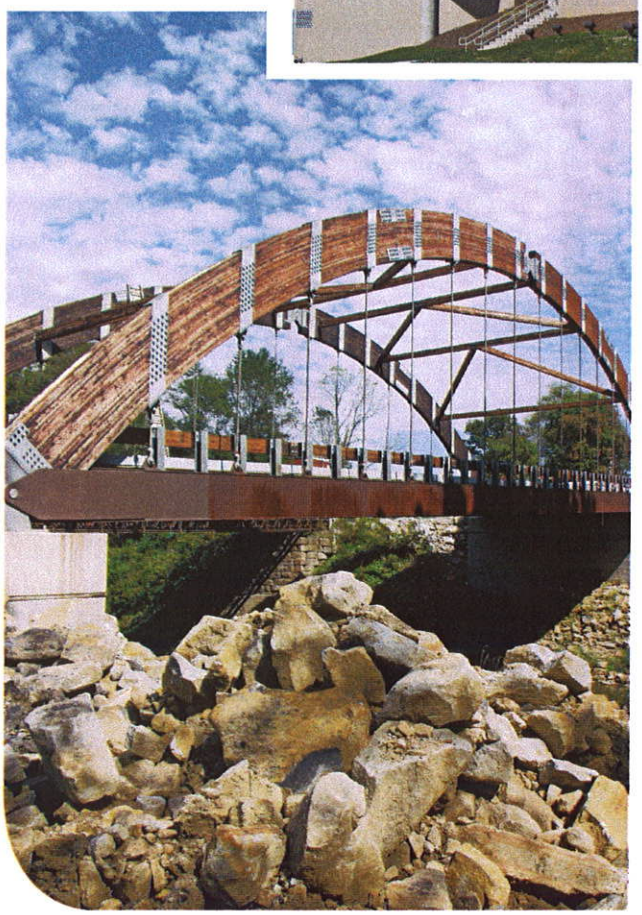
- Bridge Structural Design and Analysis
- Innovative Bridge Materials Applications
- Building Structural Design and Analysis
- Historical Restoration and Evaluations

PROFESSIONAL HIGHLIGHTS

Structural Engineer:

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

Alpha
ARCHITECTS ENGINEERS



ALPHA RESUMES

Charles B. Luttrell, PE | Principal, Structural Engineer

EMPLOYMENT HISTORY

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

EDUCATION

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

QUALIFICATIONS

- **License:** Professional Engineer: West Virginia, Maryland, 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
  - ✓ Buttoned overlap sheer failures
- Composite Cold Formed Steel and Concrete Deck Research
  - ✓ Line load behavior/failures
  - ✓ Concentrated load behavior/failures
  - ✓ Web crippling
  - ✓ Punch failures

think Alpha first.com

Contact
Charles B. Luttrell
304.296.8216
800.640.8216
charlie.luttrell@thinkalphafirst.com

Alpha ARCHITECTS ENGINEERS

ALPHA RESUMES

Charles Branch, PE | Principal, Civil Engineer

SUMMARY

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

PROFILE

Broad-based responsibilities in the following areas:

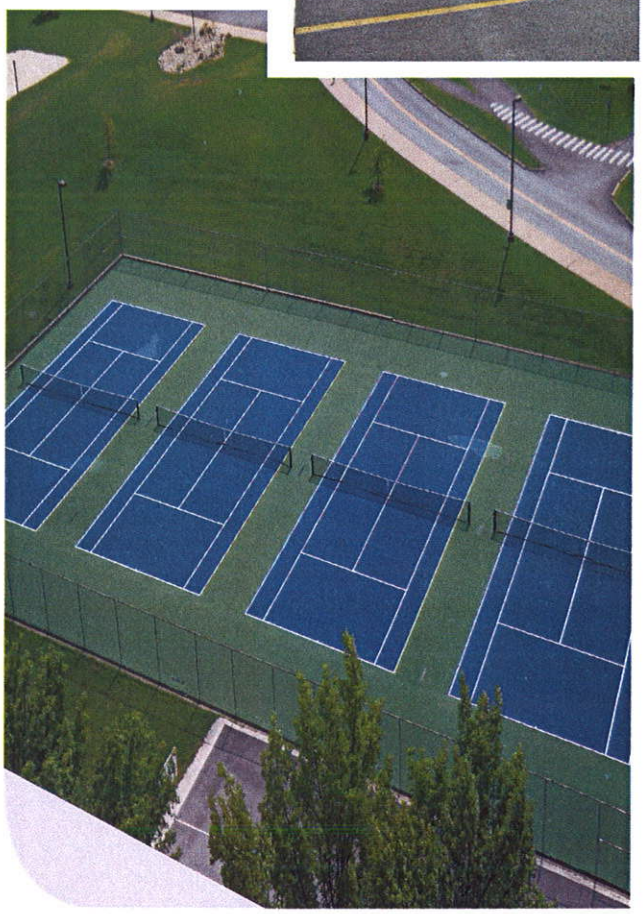
- Highway Design
- Municipal Engineering
- Wastewater Collection
- Storm Sewer System Design
- Storm Water Management
- Site Engineering
- Project Management

PROFESSIONAL HIGHLIGHTS

Civil Engineer/Project Manager:

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

Alpha
ARCHITECTS ENGINEERS



ALPHA RESUMES

Charles Branch, PE | Principal, Civil Engineer

EMPLOYMENT HISTORY

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

EDUCATION

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

QUALIFICATIONS

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

AFFILIATIONS

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

think Alpha first.com

Contact
Charles B. Branch
304.296.8216
800.640.8216
chuck.branch@thinkalphafirst.com

H.F. LENZ COMPANY

Thomas F. Deter, P.E., LEED™-AP

Principal-in-Charge of MEP Systems Engineering

Mr. Deter is responsible for the engineering design of all trades, the supervision of senior designers, the preparation of reports to determine optimal systems and/or equipment selections, and the coordination and checking of contract documents for completeness and quality. He is responsible for coordination with the client, the architect, regulatory agencies, and the engineering staff; project scheduling; and other project management functions. Mr. Deter is experienced in the design of building 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. His project experience includes:

West Virginia Army National Guard
Kingwood, West Virginia
Design for a new billeting facility at Camp Dawson

U.S. Postal Service
Indefinite Delivery Contracts
Western Pennsylvania and West Virginia
Over 300 various repair and alteration projects under 11 indefinite delivery contracts
- *Developed design/build RFP package for two new 75,000 sq.ft. Postal Distribution Facilities in Johnstown, PA and Lima, OH*
- *Renovations to the Bulk Mail Center in Warrendale, PA*
- *Investigative survey reports, seven post office facilities*
- *Parking lot design, two post office facilities*
- *Site feasibility study for a proposed bulk mail center*
- *Façade replacement and loading dock improvements for the Main Post Office in Johnstown, PA*
- *Upgrades and HVAC replacement at the Main Post Office in New Castle, PA*

Letterkenny Army Depot
Chambersburg, Pennsylvania
Various projects under 6 indefinite delivery contracts

U.S. Air Force – 911th Airlift Group
Corapolis, Pennsylvania
Various projects under two indefinite delivery contracts

New Armory, Pennsylvania Department of Military Affairs, Ford City, Pennsylvania
New 24,400 sq.ft. training center

Pennsylvania National Guard Facility
Johnstown, Pennsylvania
New regional maintenance facility

U.S. Army Reserve Center Aviation Facility
Johnstown, Pennsylvania
New 120,000 sq.ft. multi-building reserve center

U.S. Army Reserve Center
Wheeling, West Virginia
Design/build reserve center

U.S. Army Reserve Aviation Center
Weirton, West Virginia
Design/build reserve center

Pennsylvania Department of Conservation and Natural Resources, Penn Nursery
Spring Mills, Pennsylvania
New 8,000 sq.ft. office building, designed to attain LEED™ Gold

Education
Bachelor of Science, Electrical Engineering Technology, 1987, University of Pittsburgh at Johnstown

Experience
H.F. Lenz Company 1992 – Present • Parfitt/Ling Consulting Engineers 1990 - 1992
Gary Johnston & Assoc., Inc. 1987 - 1990

Professional Certification
Licensed Professional Engineer in Pennsylvania, Illinois, Maryland, New Jersey, Ohio, Virginia, and West Virginia; LEED™ Accredited Professional

Professional Affiliations
Professional Engineers in Private Practice; NSPE/PSPE; APPA; U.S. Green Building Council

H.F. LENZ COMPANY

Steven P. Mulhollen, P.E.

Electrical Engineer

Mr. Mulhollen is experienced in the design of power distribution systems, control systems, emergency power systems, lighting and emergency lighting systems, fire alarm systems, security, sound, and telecommunication systems for correctional, educational, institutional, industrial, health care, and commercial facilities. Mr. Mulhollen's project experience includes (*indicates prior experience):

West Virginia Army National Guard
Kingwood, West Virginia
Project management and electrical design for Camp Dawson billeting facility

Baltimore Corps of Engineers
New Cumberland, Pennsylvania
Electrical design for new billeting facility

U.S. Postal Service
Indefinite Delivery Contracts
Western Pennsylvania and West Virginia
Various repair and alteration projects under several indefinite delivery contracts
- *Developed design/build RFP package for two new 75,000 sq.ft. Postal Distribution Facilities in Johnstown, PA and Lima, OH*
- *Renovations to the Bulk Mail Center in Warrendale, PA*
- *Investigative survey reports, seven post office facilities*
- *Parking lot design, two post office facilities*
- *Site feasibility study for a proposed bulk mail center*
- *Façade replacement and loading dock improvements for the Main Post Office in Johnstown, PA*
- *Upgrades and HVAC replacement at the Main Post Office in New Castle, PA*

Letterkenny Army Depot
Chambersburg, Pennsylvania
Various projects under 6 indefinite delivery contracts

U.S. Air Force – 911th Airlift Group
Corapolis, Pennsylvania
Various projects under two indefinite delivery contracts

New Armory, Pennsylvania Department of Military Affairs, Ford City, Pennsylvania
New 24,400 sq.ft. training center

Pennsylvania Department of Conservation and Natural Resources, Penn Nursery
Spring Mills, Pennsylvania
New 8,000 sq.ft. office building, designed to attain LEED™ Gold

Lincoln County
Hamlin, West Virginia
Electrical design for new 911 center with 500 kW Generator 277/480 volts

U.S. Drug Enforcement Administration
Pittsburgh, Pennsylvania
New 50,000 sq.ft. design/build office building with a state-of-the-art communications system. LEED Certified.

Fayette County
Uniontown, Pennsylvania
Electrical design for courthouse renovation

Anthony Juvenile Correctional Center*
Neola, West Virginia
Electrical design of correctional facility

Education
Bachelor of Science, Electrical Engineering, 1988
Pennsylvania State University, University Park, Pennsylvania

Experience
H.F. Lenz Company 1999
L. Robert Kimball & Associates 1996 - 1999
Leach Wallace Associates, Inc. 1990 - 1996 • E.A. Mueller, Inc. 1988 - 1990

Professional Registration / Certification
Licensed Professional Engineer in Pennsylvania • Alabama • Florida • Maryland • Missouri • New Jersey • New Mexico • Ohio • Tennessee

Professional Affiliations
Institute of Electrical and Electronics Engineers, Inc.

H.F. LENZ COMPANY

John C. Stewart, P.E., LEED™-AP

Mechanical Engineer and LEED™ Accredited Professional

Mr. Stewart has over 20 years experience in the design of HVAC, plumbing, and fire protection systems. His responsibilities have included code compliance verification, schematic layout, calculations, equipment selection, control system selection, specification writing, coordination, life cycle cost analyses, cost estimating. His experience includes the design of mechanical systems for military installations, industrial plants, office buildings, hospitals, and educational facilities. He has also been involved in the design of chiller and boiler plants. Mr. Stewart's project experience includes (*indicates prior experience):

U.S. Postal Service
Indefinite Delivery Contracts
Western Pennsylvania and West Virginia
Various repair and alteration projects under several indefinite delivery contracts
- *Developed design/build RFP package for two new 75,000 sq.ft. Postal Distribution Facilities in Johnstown, PA and Lima, OH*
- *Renovations to the Bulk Mail Center in Warrendale, PA*
- *Investigative survey reports, seven post office facilities*
- *Parking lot design, two post office facilities*
- *Site feasibility study for a proposed bulk mail center*
- *Façade replacement and loading dock improvements for the Main Post Office in Johnstown, PA*
- *Upgrades and HVAC replacement at the Main Post Office in New Castle, PA*

Letterkenny Army Depot
Chambersburg, Pennsylvania
Various projects under 6 indefinite delivery contracts

U.S. Air Force - 911th Airlift Group
Corapolis, Pennsylvania
Various projects under two indefinite delivery contracts

Kee Federal Office Building and Courthouse
Bluefield, West Virginia
- *Replacement of 1,200-ton chiller plant*
- *Chilled water distribution modifications*
- *Replacement of industrial air compressors*
- *Replacement of dust collection systems*
- *Cooling towers*
- *Gatehouse structural design*

New Armory, Pennsylvania Department of Military Affairs, Ford City, Pennsylvania
New 24,400 sq.ft. training center

Squadron Operations, Dyess Air Force Base*
Abilene, Texas
Renovations and additions to five office buildings ranging from 5,000 to 15,000 sq.ft.

Dyess Air Force Base*
Abilene, Texas
- *Base Headquarters*
- *80,000 sq.ft. office building renovation*

Education

Master of Science, Mechanical Engineering, University of Pittsburgh, 1995
Graduate Courses in Facilities Engineering, Air Force Institute of Technology, 1984-1987
Bachelor of Science, Mechanical Engineering, University of Pittsburgh, 1984

Experience

H.F. Lenz Company 1996 - Present
Peter F. Loftus Division, Eichleay Engineers, Inc. 1989 - 1996
Newport News Shipbuilding 1988 - 1989
U.S. Air Force 1984 - 1988

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania • LEED™ Accredited Professional • Adjunct Assistant Professor for the University of Pittsburgh at Johnstown in HVAC Design for the Mechanical Engineering Technology Curriculum

Professional Affiliations

American Society of Heating, Refrigerating, and Air-Conditioning Engineers; APPA
U.S. Green Buildings Council

H.F. LENZ COMPANY

John C. Stewart, P.E., LEED™-AP

Mechanical Engineer and LEED™ Accredited Professional

Mr. Stewart has over 20 years experience in the design of HVAC, plumbing, and fire protection systems. His responsibilities have included code compliance verification, schematic layout, calculations, equipment selection, control system selection, specification writing, coordination, life cycle cost analyses, cost estimating. His experience includes the design of mechanical systems for military installations, industrial plants, office buildings, hospitals, and educational facilities. He has also been involved in the design of chiller and boiler plants. Mr. Stewart's project experience includes (*indicates prior experience):

U.S. Postal Service
Indefinite Delivery Contracts
Western Pennsylvania and West Virginia
Various repair and alteration projects under several indefinite delivery contracts
- *Developed design/build RFP package for two new 75,000 sq.ft. Postal Distribution Facilities in Johnstown, PA and Lima, OH*
- *Renovations to the Bulk Mail Center in Warrendale, PA*
- *Investigative survey reports, seven post office facilities*
- *Parking lot design, two post office facilities*
- *Site feasibility study for a proposed bulk mail center*
- *Façade replacement and loading dock improvements for the Main Post Office in Johnstown, PA*
- *Upgrades and HVAC replacement at the Main Post Office in New Castle, PA*

Letterkenny Army Depot
Chambersburg, Pennsylvania
Various projects under 6 indefinite delivery contracts

U.S. Air Force - 911th Airlift Group
Corapolis, Pennsylvania
Various projects under two indefinite delivery contracts

Kee Federal Office Building and Courthouse
Bluefield, West Virginia
- *Replacement of 1,200-ton chiller plant*
- *Chilled water distribution modifications*
- *Replacement of industrial air compressors*
- *Replacement of dust collection systems*
- *Cooling towers*
- *Gatehouse structural design*

New Armory, Pennsylvania Department of Military Affairs, Ford City, Pennsylvania
New 24,400 sq.ft. training center

Squadron Operations, Dyess Air Force Base*
Abilene, Texas
Renovations and additions to five office buildings ranging from 5,000 to 15,000 sq.ft.

Dyess Air Force Base*
Abilene, Texas
- *Base Headquarters*
- *80,000 sq.ft. office building renovation*

Education

Master of Science, Mechanical Engineering, University of Pittsburgh, 1995
Graduate Courses in Facilities Engineering, Air Force Institute of Technology, 1984-1987
Bachelor of Science, Mechanical Engineering, University of Pittsburgh, 1984

Experience

H.F. Lenz Company 1996 - Present
Peter F. Loftus Division, Eichleay Engineers, Inc. 1989 - 1996
Newport News Shipbuilding 1988 - 1989
U.S. Air Force 1984 - 1988

Professional Registration / Certification

Licensed Professional Engineer in Pennsylvania • LEED™ Accredited Professional • Adjunct Assistant Professor for the University of Pittsburgh at Johnstown in HVAC Design for the Mechanical Engineering Technology Curriculum

Professional Affiliations

American Society of Heating, Refrigerating, and Air-Conditioning Engineers; APPA
U.S. Green Buildings Council

H.F. LENZ COMPANY

Gregory D. Rummel, C.P.D.

Plumbing and Fire Protection Designer

Mr. Rummel has designed complete plumbing and fire protection systems for colleges, schools, office buildings, hospitals, prisons, laboratories, industrial facilities, and military installations. He is fully knowledgeable of NFPA codes and is 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. Rummel supervises drafting personnel; 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. Mr. Rummel has been involved in the design of plumbing and fire protection systems for the following projects:

U.S. Postal Service
Indefinite Delivery Contracts
Western Pennsylvania and West Virginia
Over 300 various repair and alteration projects under 11 indefinite delivery contracts
- *Developed design/build RFP package for two new 75,000 sq.ft. Postal Distribution Facilities in Johnstown, PA and Lima, OH*
- *Renovations to the Bulk Mail Center in Warrendale, PA*
- *Investigative survey reports, seven post office facilities*
- *Parking lot design, two post office facilities*
- *Site feasibility study for a proposed bulk mail center*
- *Façade replacement and loading dock improvements for the Main Post Office in Johnstown, PA*
- *Upgrades and HVAC replacement at the Main Post Office in New Castle, PA*

Letterkenny Army Depot
Chambersburg, Pennsylvania
Various projects under 6 indefinite delivery contracts

U.S. Air Force – 911th Airlift Group
Corapolis, Pennsylvania
Various projects under two indefinite delivery contracts

New Armory, Pennsylvania Department of Military Affairs, Ford City, Pennsylvania
New 24,400 sq.ft. training center

Pennsylvania National Guard Facility
Johnstown, Pennsylvania
New regional maintenance facility

U.S. Army Reserve Center
Wheeling, West Virginia
Design/build reserve center

U.S. Army Reserve Aviation Center
Weirton, West Virginia
Design/build reserve center

U.S. Army Reserve Center
Beckley, West Virginia
Plumbing and fire protection design for a new 300-member Reserve Center

U.S. Army Reserve Center
Kingwood, West Virginia
Plumbing and fire protection design for a new 100-member Reserve Center

Pennsylvania Department of Conservation and Natural Resources, Penn Nursery
Spring Mills, Pennsylvania
New 8,000 sq.ft. office building, designed to attain LEED™ Gold

Education
B.S. in Mechanical Engineering Technology, 2000, Point Park College
Associate in Specialized Technology 1984, Architectural Drafting and Construction with CAD Technology, Triangle Institute of Technology

Experience
H.F. Lenz Company 1989 - Present
Newport News Ship Building 1984 - 1989

Professional Certification
Certified in Plumbing Design, ASPE

H.F. LENZ COMPANY

Paul E. Petrilli, P.E., LEED® AP, BD+C

Commissioning Agent

Mr. Petrilli, a Principal of the firm and LEED Accredited Professional, heads up the Commissioning and LEED Related Services for H.F. Lenz Company. In addition to commissioning, these services include energy modeling, measurement and verification, ENERGY STAR®, and LEED® consulting and documentation services.

Mr. Petrilli as served as the Principal-in-Charge on numerous projects and is responsible for the development and review energy audits and plans; commissioning project plans and specifications; system performance testing; review of design documents; site visits; preparation, review and submittal of O&M manuals; preparation of systems manual; training of Owner's staff; and Owner interviews.

Mr. Petrilli has experience commissioning progressive mechanical systems including dedicated outdoor air systems, energy recovery, geothermal systems, photovoltaics, and building automation systems. He has been involved in the following projects:

United Parcel Service (UPS), Beaver Avenue
Pittsburgh, Pennsylvania
ASHRAE Level I Energy Audit for the 15,500 sq.ft. office building at UPS's Beaver Avenue Distribution Hub; the results of the Level I audit identified two primary energy conservation measures (ECM), a boiler system replacement and a window replacement project, as having the greatest potential for savings

Franklin County Public Facilities Management
New Courthouse
Columbus, Ohio
LEED Fundamental and Enhanced Commissioning services for a new 300,000 sq.ft. county courthouse; Project goal is LEED Gold

Regional Learning Alliance
Cranberry Township, Pennsylvania
LEED Fundamental Commissioning services for a new 75,500 sq.ft. conference and learning center; Project has received a LEED Silver Rating

USX Technology Center (Formerly Siemens Westinghouse)
Pittsburgh, Pennsylvania
LEED™ Commissioning services for a new 197,000 sq.ft. fuel cell manufacturing facility; Project has been LEED™ Certified

CarMax, Inc.
Richmond, Virginia
LEED™ Fundamental Commissioning services plus LEED™ Enhanced Commissioning services for a new 240,000 sq.ft. corporate office building; Project has received a LEED™ Silver Rating

National City
Columbus, Ohio
Energy audit and Building Automation study for the 35-story, 1,000,000 sq.ft. National City Center

Education
Bachelor of Architectural Engineering 1987, Mechanical/Electrical Systems in Buildings, Pennsylvania State University

Experience
H.F. Lenz Company 1987 - Present

Professional Registration / Certification
Licensed Professional Engineer in Pennsylvania • Illinois • Maryland • Michigan • Missouri • New Jersey • Ohio • Virginia • Washington, DC • West Virginia and LEED Accredited Professional

Professional Affiliations
American Society of Heating, Refrigerating, and Air-Conditioning Engineers • American Society of Plumbing Engineers • U.S. Green Building Council • Geothermal Heat Pump Consortium • Illuminating Engineering Society of North America • Green Building Alliance • **Member of the BCA-NCC Board of Directors for 2008-2009**