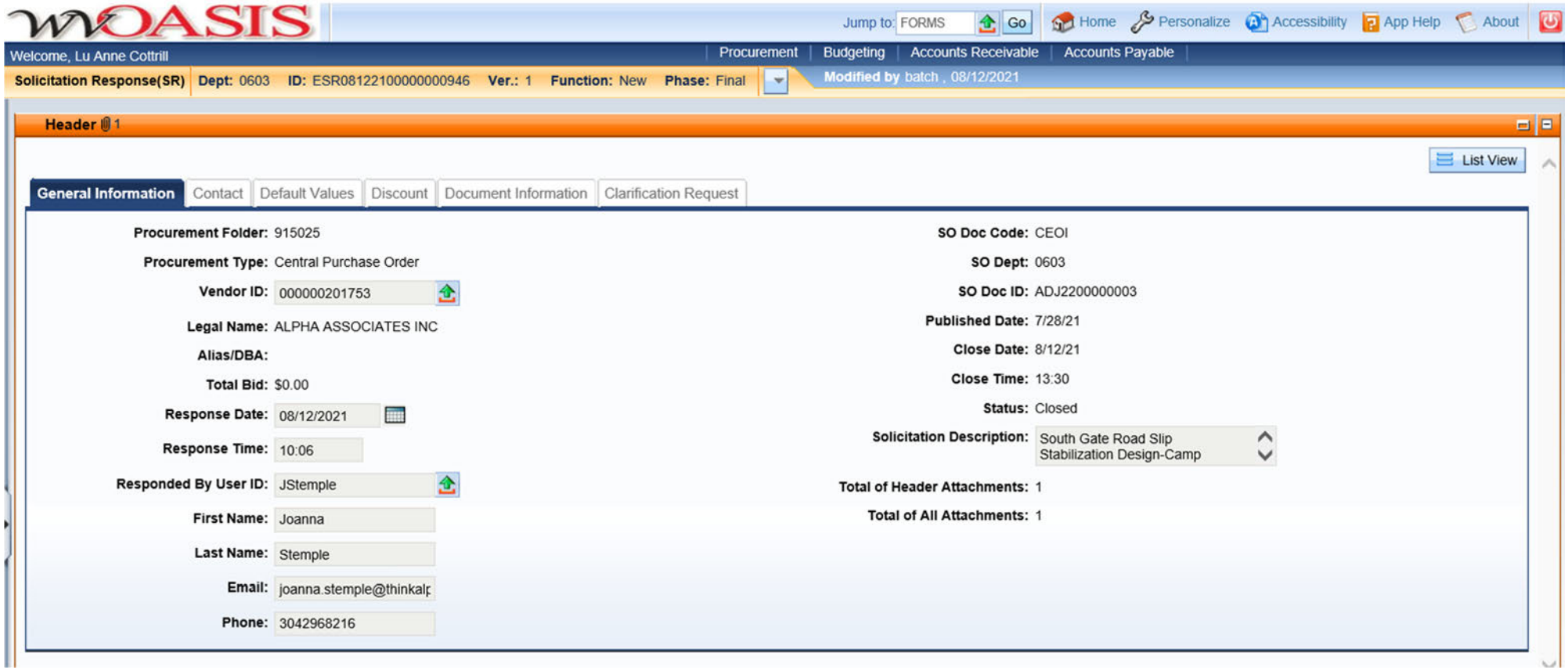
The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.


WVOASIS
Jump to: FORMS Go
Home
Personalize
Accessibility
App Help
About
Welcome, Lu Anne Cottrill
Procurement
Budgeting
Accounts Receivable
Accounts Payable
Solicitation Response(SR) Dept: 0603 ID: ESR08122100000000946 Ver.: 1 Function: New Phase: Final
Modified by batch , 08/12/2021
Header 1
List View
General Information
Contact
Default Values
Discount
Document Information
Clarification Request
Procurement Folder: 915025
Procurement Type: Central Purchase Order
Vendor ID: 000000201753
Legal Name: ALPHA ASSOCIATES INC
Alias/DBA:
Total Bid: $0.00
Response Date: 08/12/2021
Response Time: 10:06
Responded By User ID: JStemple
First Name: Joanna
Last Name: Stemple
Email: joanna.stemple@thinkalp
Phone: 3042968216
SO Doc Code: CEOI
SO Dept: 0603
SO Doc ID: ADJ2200000003
Published Date: 7/28/21
Close Date: 8/12/21
Close Time: 13:30
Status: Closed
Solicitation Description: South Gate Road Slip Stabilization Design-Camp
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:	915025
Solicitation Description:	South Gate Road Slip Stabilization Design-Camp Dawson
Proc Type:	Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2021-08-12 13:30	SR 0603 ESR08122100000000946	1

VENDOR

000000201753
ALPHA ASSOCIATES INC

Solicitation Number: CEOI 0603 ADJ2200000003

Total Bid: 0 **Response Date:** 2021-08-12 **Response Time:** 10:06:23

Comments:

FOR INFORMATION CONTACT THE BUYER
David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor
Signature X **FEIN#** **DATE**

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	South Gate Road Slip Stabilization Design-Camp Dawson				0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

Commodity Line Comments:

Extended Description:

Provide professional architectural and engineering design services per the attached documentation.

SOUTH GATE ROAD SLIP STABILIZATION DESIGN CAMP DAWSON

CEOI 0603 ADJ2200000003

Architecture/Engineering Services

Public Notice Date: July 28, 2021
Submission Date: August 12, 2021
EXPRESSION OF INTEREST

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: 915025			**Reason for Modification:**
Doc Description: South Gate Road Slip Stabilization Design-Camp Dawson			
Proc Type: Central Purchase Order			
Date Issued	**Solicitation Closes**	**Solicitation No**	**Version**
2021-07-28	2021-08-12 13:30	CEOI 0603 ADJ2200000003	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 Avenue

Street :

City : Morgantown

State : West Virginia **Country :** USA **Zip :** 26501

Principal Contact : Richard A. Colebank

Vendor Contact Phone: 304-296-8216 **Extension:** 102

FOR INFORMATION CONTACT THE BUYER
David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor Signature X Richard A. Colebank, President **FEIN#** 550516286 **DATE** 8/11/21

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

(E-mail 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.

Alpha Associates, Inc.

(Company)

Pres. & COO

(Authorized Signature) (Representative Name, Title)

Richard A. Colebank, President & COO

(Printed Name and Title of Authorized Representative)

8/11/21

(Date)

(304) 296-8216/ (304) 296-8245

(Phone Number) (Fax Number)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. 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.

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.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"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.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code* §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Alpha Associates, Inc.

Authorized Signature: [signature] Date: 8/11/21

State of West Virginia

County of Monongalia, to-wit:

Taken, subscribed, and sworn to before me this 11 day of August, 2021.

My Commission expires September 22, 2025.

AFFIX SEAL HERE

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
JOANNA BRITTANY STEMPLE
Alpha Associates, Inc.
209 Prairie Ave, Morgantown West Virginia 26501
My Commission Expires September 22, 2025

NOTARY PUBLIC Joanna B Stemple

West Virginia Ethics Commission

Disclosure of Interested Parties to Contracts

(Required by *W. Va. Code* § 6D-1-2)

Name of Contracting Business Entity: Alpha Associates, Inc **Address:** 209 Prairie Avenue Morgantown, WV 26501

Name of Authorized Agent: Richard A. Colebank **Address:** _____

Contract Number: CEOI 0603 ADJ2200000003 **Contract Description:** South Gate Road Slip Stabilization Design Camp Dawson

Governmental agency awarding contract: WV Army National Guard

☐ **Check here if this is a Supplemental Disclosure**

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below *(attach additional pages if necessary)*:

1. **Subcontractors or other entities performing work or service under the Contract**
   ☐ Check here if none, otherwise list entity/individual names below.

   Tetra Tech

2. **Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)**
   ☐ Check here if none, otherwise list entity/individual names below.

   Richard Colebank, President, COO
   Richard Klein, Chairman, CEO

3. **Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)**
   ☑ Check here if none, otherwise list entity/individual names below.

Signature: _____ Pres. & COO **Date Signed:** 8/11/21

Notary Verification

State of West Virginia, County of Monongalia:

I, Richard A. Colebank, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 11 day of August, 21.

Joanna B Stemple
Notary Public's Signature

To be completed by State Agency:
Date Received by State Agency: _____
Date submitted to Ethics Commission: _____
Governmental agency submitting Disclosure: _____

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
JOANNA BRITTANY STEMPLE
Alpha Associates, Inc.
209 Prairie Ave, Morgantown West Virginia 26501
My Commission Expires September 22, 2025

TABLE OF CONTENTS.

Alpha
ARCHITECTS ENGINEERS

August 12, 2021

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

RE: Engineering Design Services for South Gate Road Slip at Camp Dawson

Dear Mr. Pauline,

Alpha Associates, Incorporated is pleased to submit this Proposal to provide engineering services to address the second South Gate Road Slip Stabilization at Camp Dawson, WV. We have performed numerous similar type projects for the WVDOH over the years. Alpha's successful history with the WVARNG and our experienced team, combined with our convenient location within 45 minutes of the project makes us the perfect partnering firm for the WVARNG.

Project Understanding

The WVARNG is looking to partner up with an Engineering firm to design and develop construction documents to repair and slip and stabilize the slope of approximately 200 linear feet of road embankment on the South Gate access road. The design will stabilize the road embankment and rebuild the road, while protecting the steam below the site. The design for the South Gate Access Road must also accommodate the loads and sizes of heavy and large military vehicles. The selected consultant must also provide all geotechnical work, including any necessary borings, and is responsible for all utility and road infrastructure as needed.

Project Team

Our staff includes structural and civil engineers, construction administrators, and support staff. From the President to the support staff, the Alpha team is committed to providing you with a quality completed project in a timely manner. Alpha has the knowledge and understanding in design and construction to complete this project seamlessly from the initial project inspections to the development of plans and the selections of cost effective options. Any geotechnical work required will be performed by Tetra Tech, Inc. The Alpha team will be your expert for this project.

Summary

Thank you for the opportunity to submit this proposal. Alpha is committed to providing the WVARNG with a dedicated team of highly qualified personnel to

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

successfully complete a project that is on time and within budget once again. Please contact me at (304)296-8216 extension 102 if you have any questions or wish to further discuss our qualifications.

Sincerely,

ALPHA ASSOCIATES, INCORPORATED

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
22

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

TETRA TECH

ENGINEERING SERVICES:
GEOTECHNICAL

Tetra Tech
102 Leeway Street
Morgantown, WV 26505

P:304.599.0771
F:304.212.2396
www.TetraTech.com

Overview

Tetra Tech is a full-service consulting and engineering firm with a substantial global presence. We help our clients conceptualize and execute innovative solutions to their most difficult problems. Tetra Tech is well positioned to meet the evolving challenges of our clients by moving with the speed of a 20-person office with the resources of a billion dollar company.

From front-end science and planning to design, construction management, and operations, Tetra Tech's global service network is facilitated by our Initiatives program. In addition to coordinating resources for specific markets, the Initiative program provides best-in-class experts with worldwide project experience. They deliver a high level of integrated services for the full project life-cycle in six service areas: water, environment, infrastructure, resource management, energy, and international development.

Our Government Services Group (GSG) provides consulting and engineering services worldwide for a broad range of U.S. government clients (federal, state, and local) and all activities with development agencies. Services include water and waste management, environmental restoration, international development, sustainable infrastructure design, and a broad range of civil infrastructure design for facilities, transportation, and regional and local development. ENR magazine ranks Tetra Tech a national and international leader in several markets.

Geographic Reach

Tetra Tech has offices and operational infrastructure throughout the United States, Canada, and abroad. With 20,000 associates in more than 450 offices in more than 120 countries on seven continents, Tetra Tech's technical knowledge and hands-on site work is broad and deep. Our staff is supported by a uniform administrative and management system that project teams can access immediately to ensure work is completed effectively.

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 architectural and engineering design services for numerous roadway projects, including hill and road slip projects, for various clients. We are knowledgeable in the requirements and procedures for any size project. In this proposal, you will find examples that showcase the Alpha Team's exceptional project experience.

Alpha has a successful relationship with Camp Dawson that has developed over a decade and has included more than 8 projects. This history allows us to provide the State and the West Virginia Army National Guard with a cohesive team on this project. 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 Camp Dawson South Gate Road Slip Stabilization Design Project will be managed out of Alpha's Morgantown office. 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. Included in the Alpha team will be Tetra Tech who will provide any environmental and geotechnical services required.

Richard A. Colebank
PE, PS
President & COO

Charles Branch
PE
Project Manager, Civil Engineer

Brad Casdorph
PE, PS
Civil Engineer

Charles Luttrell
PE
Senior Principal, Structural Engineer

Matthew Ridgway
PE
Project Manager,
Geotechnical Engineer
Tetra Tech

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 Haill
Construction Administration

CIVIL ENGINEERING

Charles Branch
PE; Senior Principal
Senior Civil Engineer

Bradley Casdorph
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

GEOTECHNICAL/ENVIRONMENTAL ENGINEERING

Matthew Ridgway
PE
Geotechnical Design

Jeremy Dierking
PE
QA

Chris Lewis
PE
Geotechnical Design Lead

Jack Wright
PE
Geotechnical Design

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 and resources to the South Gate Road Slip Stabilization Design Project at Camp Dawson. 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 WVARNG with a committed and dependable design team. Our multidisciplinary design team is prepared to meet and exceed the expectations of the WVARNG 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 22
- REVIT (Editions up to 2022)
- Civil 3D
- RISA 3D
- RISA Floor
- RISA Foundation
- MathCAD
- DJI Phantom 4 RTK Drone
- Autodesk Suite
- Enercalc
- AutoTURN
- TopCon GR5 GPS System
- TopCon Total Station with Reflectorless Capabilities
- Carlson Surveyor & Data Collector

RICHARD A. COLEBANK

PE,PS; PRESIDENT & COO

304-296-8216 | 800-640-8216

rick.colebank@thinkalphafirst.com

EMPLOYMENT HISTORY

1985-Current | Alpha Associates, Inc.

1983-1985 | Charles Townes & Associates, P.C.

1983 | US Army Corps of Engineers

EDUCATION

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

QUALIFICATIONS

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

Professional Surveyor: West Virginia

Certified Private Pilot

AFFILIATIONS

Former NSPE/PEPP Governor of WV

American Red Cross- State Board

University High School Foundation; Charter Member; President

Morgantown Area Chamber of Commerce; Past Chairman

WVU College of Civil and Environmental Engineering Visiting Committee

WVU College of Business and Economics MBA Advisory Committee

SUMMARY

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

PROFILE

Broad-based responsibilities in the following areas:

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

PROFESSIONAL HIGHLIGHTS

Project Principal:

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

CHARLES B. BRANCH

PE; SENIOR PRINCIPAL & CIVIL ENGINEER

304-296-8216 | 800-640-8216

chuck.branch@thinkalphafirst.com

EMPLOYMENT HISTORY

1992-Current | Alpha Associates, Inc.

1988-1992 | Reimer, Muegge, & Associates, Inc.

EDUCATION

West Virginia University
Bachelor- Civil Engineering; 2000

Fairmont State College
Bachelor- Architectural Engineering Technology; 1988

QUALIFICATIONS

License: Professional Engineer; West Virginia

AFFILIATIONS

WV Society of Professional Engineers

National Society of Professional Engineers

SUMMARY

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

PROFILE

Broad-based responsibilities in the following areas:

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

PROFESSIONAL HIGHLIGHTS

Civil Engineer/Project Manager:

- Jane Lew Truck Stop; Jane Lew, WV
- Clarksburg State Office Building; Clarksburg, WV
- WVU Reedsville Farm Redevelopment; Morgantown, WV
- Freedom Automotive Group Dealerships; Morgantown, WV
- Freedom Kia; Clarksburg, WV
- WVU Parking Lot 81 Renovations; Morgantown, WV
- WVU Doll's Run Burn Room; Morgantown, WV
- WVU Alumni Center Parking Lot; Morgantown, WV
- WVU Alumni Center Storm Water Management; Morgantown, WV
- WVU Health Sciences Center Eastern Division; Martinsburg, WV
- WVDOH Martinsburg Train Station Corridor Streetscape; Martinsburg, WV
- WVDOH I-77 Welcome Center; Williamstown, WV
- WV Medal of Honor Recipients Plaza; Hazleton, WV
- Lewis County High School Bridge; Weston, WV
- Wyoming County Route 10 Relocation; Wyoming County, WV
- Fairmont Federal Credit Union; Bridgeport, WV
- Queen St Underpass; Martinsburg, WV
- Martinsburg Little League Fields; Martinsburg, WV

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
- WV DOH 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

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

WVU 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 Sate Park; Ritchie County, 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

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
- Buttoned Overlap Sheer 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 Broaddus College, Rex Pyles Arena Deck; Phillipi, 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

TETRA TECH

Matthew T. Ridgway, PE
Geotechnical Engineer V

EXPERIENCE SUMMARY

Mr. Ridgway has diverse experience assisting clients with management, project management, engineering and managing the design and construction of complex projects. He has a proven history as a geotechnical engineer performing and overseeing tasks including preliminary site investigations, engineering analysis and design and construction oversight while maintaining cost-savings initiatives. Mr. Ridgway is an effective communicator and has effectively overseen and managed several projects with multiple stakeholders who share different interest. He successfully deals with complex issues in a highly stressful and ever-changing environments. Mr. Ridgway has worked in a wide variety of both public and private sector projects and is able to use this diversity of experience to provide new and creative solutions to complex problems. Mr. Ridgway will ensure that project teams have the resources and support needed to not only meet but exceed expectations

RELEVANT EXPERIENCE

SITE DEVELOPMENT

Geotechnical Engineer; Multiple Clients, New York. Prepared site investigation plans and conducted engineering analysis and calculations for the support system of multiple solar array sites ranging in size up to 40 acres. Sites included access roads, generation equipment, battery pads and solar panels.

Project Manager; Confidential Client, West Virginia. Managed the geotechnical aspects of the development of over 1000 acres for a private client in West Virginia. This project consisted of substantial field investigation, the exploration of underground mines for potential subsidence, preparation of recommendations for the remediation of surface mines, reinforced steeped slopes and several fill slopes in excess of 200 feet.

Project Manager; Multiple Clients, Multiple Locations. Managed the creation of geotechnical recommendations for the site construction of single and multi-level buildings for over 30 projects in West Virginia, Ohio and Pennsylvania. Mostly in the retail and healthcare business, the buildings ranged from 3,000 to 120,000 square feet. Work included the creation and oversight of geotechnical investigation, laboratory testing, and preparation of recommendations and reporting. Specific projects required the remediation of different difficulties such as expansive clays, pyrites, karst, in-tact coal, and mine spoils.

Project Manager; Confidential Client, West Virginia. Managed the geotechnical aspects of the development of a 20 acres site for the creation of a competitive track and aquatic facility West Virginia. This project consisted of field investigation, remediation of deep mine spoils in excess of 80' and deep fills. This project also had restrictive settlement tolerances of ¼".

GEOSTRUCTURES AND DEEP FOUNDATIONS

Project Manager; Building Foundation Design; U.S. Department of Energy; West Virginia. Managed the geotechnical investigation and deep foundation design for this site to support a multistory structure in Morgantown, WV. This project consisted of designing foundations to transfer abnormally high columns loads over 40 feet of soft clays.

Project Manager; Dock Piling Design; U.S. Coast Guard; Pennsylvania. Managed the geotechnical investigation and design for this site in Sewickley, PA. This project consisted of the design of a 35 foot cantilevered support for a floating dock.

Project Manager; Retaining Wall Design; Allegheny County; Maryland. Managed the geotechnical investigation and design for this site along in Allegheny County, Maryland. Investigation included locating borings on an active slip of coal refuse for the purposes of designing a retaining wall of approximately 15 feet in height and 176 feet in length. Calculated forces on the wall and analyzed for design and selection of beams

EDUCATION

BS, Civil Engineering,
West Virginia University, 2013

BS, Mining Engineering,
West Virginia University, 2013

AREA OF EXPERTISE

Geotechnical/Mining Engineering

Instrumentation

Mine Site Reclamation

Slope Stability

Deep Foundation

Land/Site Development

Forensic Investigation

Geostructures

LICENSE

Professional Engineer: (CO, KY MD,MO,NC,NJ, PA,SC,UT VA, WV and WY)

OFFICE

Morgantown, WV

YEARS OF EXPERIENCE

9

YEARS WITHIN FIRM

2

CONTACT

matthew.ridgway@tetratech.com

for a pile and lagging wall using LPILE. Complete stability analysis using Slope/W and RocScience Slide software

Project Manager – Retaining Wall Design; City of Morgantown; West Virginia. Managed the geotechnical investigation and design for this site along in the city of Morgantown, West Virginia. Investigation included locating borings on an active slip for the purposes of designing a retaining wall of approximately 20 feet in height and 155 feet in length. Calculated forces on the wall and analyzed for design and selection of beams for a pile and lagging wall using LPILE. Complete stability analysis using Slope/W and RocScience Slide software.

Project Manager; Retaining Wall Design; West Virginia Department of Highways; West Virginia. Managed the geotechnical investigation and design for multiple sites in West Virginia. Investigation included locating borings on an active slip for the purposes of designing a retaining wall. Calculated forces on the wall and analyzed for design and selection of beams for a pile and lagging wall using LPILE. Complete stability analysis using Slope/W and RocScience Slide software.

Project Engineer; Abutment Wall Design; West Virginia Department of Highways; West Virginia. Performed calculations and design for bridge abutments walls and pier foundations.

Project Manager; Caisson Foundation; West Virginia Univ. Hospitals; West Virginia. Managed geotechnical investigation, laboratory testing and performed design and reporting for caissons to support an air-handler unit adjacent to an existing building.

Project Manager; Micropile Foundation; Confidential; West Virginia. Managed geotechnical investigation, laboratory testing and performed design and reporting for a micropile group. Micropiles were needed to support a sensitive area of a structure that had undergone differential settlement.

SLOPE STABILITY, SLIDE INVESTIGATION AND MITIGATION

Project Engineer; Slide Mitigation; Confidential Client; West Virginia. Performed investigation on an active slide along an active railway. Completed stability analyses and repair recommendations.

Project Manager; Slip Repair; Confidential Client; Pennsylvania. Conducted the field investigation into the location and cause of an 80-foot tall slope failure adjacent to a stream in north-central Pennsylvania. Performed stability analyses and prepared construction drawings for mitigation and repair.

Project Manager; Slip Repair; Confidential Client; Pennsylvania. Completed field investigation and prepared permits, conducted stability analysis and prepared construction drawings for a 70-foot high slope failure adjacent to a stream in northeastern Pennsylvania

Project Engineer; Pipeline Slope Failure Remediation; Confidential Clients; Pennsylvania and West Virginia. Conducted over 30 field evaluations and investigations of slope failures along pipeline right of ways and on well pad sites. On selected sites conducted stability analysis and oversaw field repairs.

Project Engineer; Reinforced Steepened Slope; West Virginia Department of Highways; West Virginia. Performed design and stability analysis for a fifty-foot-tall 1500-foot-long reinforced steepened slope.

Project Manager; Slip Repair; Confidential Client; Pennsylvania. Completed field investigation and prepared permits, conducted stability analysis and prepared construction drawings for a 20-foot-high slope failure caused by stream erosion of the toe in northeastern Pennsylvania.

Project Manager; High Wall Stability; Confidential Client; Pennsylvania. Performed field investigation of existing bedrock to create a 50-foot-tall highwall adjacent to a property boundary in Williamsport, Pennsylvania. Design plans included a falling rock retention system.

Project Manager; Slip Repair; Confidential Client; Pennsylvania. Conducted the field investigation into the location and cause of a 40 foot tall slope failure in Washington Pennsylvania. Performed stability analyses and prepared construction drawings for mitigation and repair.

Project Manager; Retaining Wall Design; West Virginia Department of Highways; West Virginia. Managed the geotechnical investigation and design for this site along in Harrison County, West Virginia. Investigation included locating borings on an active slip for the purposes of designing a retaining wall of approximately 25 feet in height and 30 feet in length. Calculated forces on the wall and analyzed for design and selection of beams for a pile and lagging wall using LPILE. Complete stability analysis using Slope/W and RocScience Slide software.

OIL AND GAS

Project Engineer; Well Pad Complex; Confidential Client; Marshall County, West Virginia. Managed the geotechnical aspect of a well pad complex that included five well pads, two impoundments and several ancillary sites. The project consisted of several fill slopes in excess of 70 feet in height, Reinforced steepened slope design and soil-improvement.

Project Engineer; Impoundment; Confidential Client; Ohio. Assisted with the design recommendations and oversaw field inspection of Ohio's first frac waste impoundment. This project developed approximately 30 acres into an impoundment with a fill slope of a fill slope in excess of 60 feet.

Project Engineer; Compressor Station; Confidential Client; West Virginia. Managed and performed all work related to the geotechnical aspects of the development of an approximately 20-acre compressor station site in West Virginia. This site included several fill slopes in excess of 110 feet and contained multiple reinforced steepened slopes. Performed both bearing capacity and settlement analysis for this project.

TETRA TECH

Jeremy Dierking, PE

Senior Geotechnical Engineer / Operations Manager

EXPERIENCE SUMMARY

Mr. Dierking has over 17 years of geotechnical engineering experience conducting field investigations and foundation analysis and design for public and private projects. His duties at Tetra Tech include operations management, project management, proposal preparation, coordinating field investigations, and preparing geotechnical reports. Mr. Dierking has completed extensive slope stability analyses for a wide variety of projects, including cut slopes and embankments, existing landslide mitigation, landfill seismic stability, and geohazard programs. He has also performed downhole inclinometer surveys and slope stability inspections at numerous sites. He has worked on numerous federal and state infrastructure projects, providing geotechnical analysis and design recommendations for bridge and building foundations, retaining walls, cut slopes, fill sections, asphalt and concrete pavement sections, settlement estimates, axial and lateral pile and shaft analysis, and foundation stabilization recommendations. Mr. Dierking has completed many geophysical surveys, geological field-mapping, and is proficient with many geotechnical modeling and analysis software packages. Mr. Dierking has also provided geotechnical and construction materials laboratory testing, construction materials testing and inspection services, and engineering inspection and observation during construction phases.

RELEVANT EXPERIENCE

DAMS AND IMPOUNDMENTS (MINING)

Black Butte Mine Project, Meagher County, Montana. As Project Geotechnical Engineer, performed geotechnical analysis as part of this mine development project for Sandfire Resources America. Performed slope stability analysis for portal pad design and the lined brine and contact water ponds, providing recommendations for slope construction and instrumentation. Included seismic refraction surveys to determine depth to bedrock and estimate rippability. (2018)

Pacificorp, CCR Rule Surface Impoundment Structural Criteria Assessments, Wyoming. As Geotechnical Engineer, performed structural stability and safety factor assessments for compliance with the EPA's CCR Rule Design Criteria §257.73 for applicable CCR impoundment structures at Pacificorp's Dave Johnston and Jim Bridger Power Plants in Wyoming. Included evaluating site specific seismic conditions, liquefaction analysis, steady-state seepage, and slope stability. (2016)

Lucky Friday Mine Pond #4 Tailings Impoundment, Mullan, Idaho. As Resident Geotechnical Engineer, provided full-time project construction engineering oversight and quality assurance during the construction of a one million cubic-yard, multi-zoned earthen embankment constructed to impound a tailings capacity of twenty years of mine production. Responsibilities included working in tandem with the project construction manager and design engineer for oversight of all engineering aspects of the project, and coordinating and directing a small staff of field engineers and technicians to maintain complete coverage of project construction quality assurance, which included;

EDUCATION

BS, Geological Engineering, Montana Tech, 2002

REGISTRATIONS

Professional Engineer:
Montana ([redacted], 2007);
Washington ([redacted], 2009);
Idaho ([redacted], 2011),
Minnesota ([redacted], 2013);
North Dakota ([redacted], 2014)
Kansas ([redacted], 2018)
Mississippi (#[redacted], 2019)
Wisconsin (#[redacted] 2019)
South Dakota ([redacted], 2019)

CONTINUING EDUCATION

40-hour OSHA HAZWOPER, 2003

Radiological Safety/ Nuclear Densometer Gauge Operation, 2004

Cone Penetration Testing for Geotechnical Investigations (short course), 2005

GRLWEAP Web Workshop (8 hr short course), May 2010

Project Management Level 2 Training, July 2012

OSHA 30-hour Outreach Training for the Construction Industry, September 2013

Soil and Rock Slope Stability, ASCE short course, November 2015

Ground Modification Methods, FHWA short course, November 2017

OFFICE

Missoula, Montana

YEARS OF EXPERIENCE

17

YEARS WITH FIRM

17

- Reviewing contractor material submittals, work plans, schedules, and change orders.
- Materials testing of construction materials, including; soils, aggregate, concrete, liner, and observation and compaction testing of all fill placement.
- Layout, observation and inspection of foundation drain and underdrain systems.
- Observation and inspection of HDPE pipe welding and installation, LLDPE liner installation (over 1,300,000 sf), steel decant system installation.
- Preparing daily reports documenting daily construction activities, observations, inspections, meetings, and developing design modifications as field conditions warranted.

Tetra Tech also provided on-going design and construction oversight services through the subsequent Stage 2 expansion of the impoundment. Mr. Dierking served as Engineer-of-Record and project manager for construction engineering oversight. (2008-2013)

Preparation of the Operations and Maintenance Manual, and the As-Built construction report for the Pond 4 Facility, Stages 1 and 2. Coordinated with project engineer and mine personnel to develop and edit the Operations and Maintenance Manual for the facility. Assisted in development and preparation of As-Built construction report, including documentation of design variances, construction variances, quality assurance activities, and development of as-built drawings; gathering and organizing all construction documents.

LANDFILLS

Seismic Stability Evaluation, Gallatin County Landfill Phase 4, Logan, Montana. As Geotechnical Engineer, performed static and pseudo-static stability analysis to evaluate stability for proposed slope/liner geometries for compliance with Montana DEQ's administration of municipal solid waste landfills. The containment structure was evaluated using several displacement analysis methods for estimates of permanent deformation of the refuse mass, including the Newmark, Bray-Rathje and Makdisi-Seed methods. Developed material interface testing specifications for bid documents. (2016)

Preliminary Stability Evaluation, Pickles Butte Sanitary Landfill, Canyon County, Idaho. As Geotechnical Engineer, performed static and pseudo-static slope stability analysis to evaluate stability for the proposed Conceptual Fill Plan for compliance with Idaho DEQ's administration of municipal solid waste landfills. A conceptual veneer cover slope stability evaluation was performed using the Koerner and Soong methodology. (2015)

Seismic Evaluation Analysis, Bonneville County Landfill Phase 3 Expansion, Idaho Falls, Idaho. As Geotechnical Engineer, performed static and pseudo-static stability analysis using slope stability software SLIDE and GSTABL7 to evaluate stability for the proposed slope/liner geometries to comply with Idaho DEQ. The containment structure was evaluated using several displacement analysis methods for estimates of permanent deformation of the refuse mass, including the Newmark, Bray-Rathje and Makdisi-Seed methods. Developed material interface testing specifications for bid documents. (2013)

Seismic Evaluation Analysis, Lewis and Clark County Landfill, Phase 2 through 6 Expansions, Helena, Montana. (2008-2009). Valley View Landfill Master Plan Update, City-County Sanitation, Helena, Montana. (2011, 2015). As Geotechnical Engineer, utilized static and pseudo-static stability analysis methods using slope stability software GSTABL7 and SLIDE to evaluate stability for the proposed slope/liner geometries. The evaluation of the landfill was completed to comply with Montana DEQ. The containment structure was evaluated using several displacement analysis methods for estimates of permanent deformation of the refuse mass, including the Newmark, Bray-Rathje and Makdisi-Seed methods. Developed material interface testing specifications for bid documents.

OIL AND GAS

CenturyLink Segment 2, Reading to Allentown, Pennsylvania. As Project Manager and Senior Geotechnical Engineer, performed geotechnical investigations for four Horizontal Directional Drill (HDD) crossing locations within varying geologic conditions of known karstic terrain, consisting of 4-inch diameter High Density Polyethylene (HDPE) conduit. Crossing depths will vary by location but are anticipated to be on the order of 20 to 25 feet at their deepest segment. Tetra Tech completed geotechnical borings and hydraulic fracturing and inadvertent returns analysis. Developed geotechnical recommendations and prepared geotechnical report with recommendations for HDD pipeline installation. (2020)

Trinity River HDD Crossing, Buckeye Development & Logistics LLC, Liberty County, Texas. As Project Geotechnical Engineer, performed geotechnical investigation for proposed HDD crossing. The Trinity River crossing

TETRA TECH

Christopher Lewis, P.E.
Sr. Geotechnical Specialist

EXPERIENCE SUMMARY

Mr. Lewis has a multi-disciplined background in geotechnical & structural engineering, engineering mechanics and mining. He leads and executes complex, multi-disciplined projects for specialty & heavy construction contractors, partner A/E firms, industrial clients, and energy & mining clients. He is recognized for:

- accomplishments remedying problem ground conditions, unstable soil & rock slopes, and other geo-hazards;
- engineering & design of earth dams, waste disposal impoundments, specialty & traditional geo-structures, and deeply buried plastic pipes;
- meeting challenges on major inland waterway projects (navigational locks & dams, bridge crossings, flood protection structures); and
- contributions to engineering manuals of practice, value-engineering assessments, specialized technical review, and forensic investigations.

A sampling of Mr. Lewis's experience follows.

RELEVANT EXPERIENCE

Technical PM for Geotechnical Aspects of Access Roads, Compressor Stations, and Interconnect Station – Select Segments of MVP Project, WV.

- Geotechnical Site Investigations, Testing Programs; and Reports
- Alternatives evaluations for Access Rd and Station Pad development
- Recommendations for Civil site development and Geotechnical design
- Final design of Mechanically-Reinforced Soil Slopes (RSS up to 57-feet high), Soil Nailed & Rock Bolted cut slopes, and cantilevered and anchored Post & Panel Retaining Walls
- Estimates of construction costs, preparation of construction/bid documents, and bid-phase assistance

Lead Geotechnical Engineer - Specialty Geotechnical Services for Bridge Pier Cofferdams, Construction Causeways, and Deep Foundations – KY, OH, PA, WV.

- New SR 0173 Bridge - French Creek, PA
- New Ironton-Russell Bridge – Ohio River, KY, OH
- New Hulton Bridge – Allegheny River, PA
- WV Route 20, Lilly Bridge Replacement Project – Bluestone River, WV

EDUCATION

M.S., Civil Engineering
Virginia Tech, 1985

B.S., Civil Engineering,
Clarkson University, 1983

Specialized Studies in Structural Geology & Soil Mechanics - City University of London, UK, Aug - Dec 1981

REGISTRATIONS/ AFFILIATIONS

Professional Engineer:
AL FL GA KY LA MA MD MI NC NJ OH PA TN WV

American Society of Civil Engineers (ASCE)

Association of State Dam Safety Officials (ASDSO)

U.S. Society on Dams (USSD)

PROFESSIONAL PRACTICE

Tetra Tech, Inc.

Lewis Consulting Group, LLC

D'Appolonia Engineering, Inc.

YEARS OF EXPERIENCE

30+ years

Geo-Hazards: Expansive Soils, Metastable Deposits, Pyritic Rock, Karst, Landslides, Mine Subsidence

Earth-Structure Interaction

Earth & Waste Disposal Dams

Specialty Geotech Construction, Ground Improvement

Specialized Technical Review, Value-Engineering, RCAs, Expert Services

Inland Waterway Structures (Dams, Lock & Guide Walls, Cofferdams)

Upstream Construction Over CCR & Tailings Impoundments

Seismic Evaluations and Liquefaction Assessments

Flood Routing, Hydrodynamic Modeling, Scour

TETRA TECH

Jack T. Wright, P.E., M.E.

Geotechnical Engineer III –

EXPERIENCE SUMMARY

Mr. Wright specializes in exploratory drill inspection, geotechnical engineering design, foundation construction monitoring, and pressure injection grouting. During his career, he has inspected exploratory drilling projects and logged samples in Kentucky, Maryland, New Mexico, Ohio, Pennsylvania, Texas, Virginia, and West Virginia. Mr. Wright has experience inspecting earthwork construction including natural gas well pad builds, earthen embankments, access roads, and slope remediation. Additionally, he is experienced with foundation pressure grouting of both low and high mobility grouts. Mr. Wright has supported with the installation of pile foundation systems and has performed compression, tension, and lateral load tests on piles of various diameters and lengths. Mr. Wright has monitored the installation and stressing of approximately 100 rock anchors for slide remediation and foundation uplift resistance applications.

RELEVANT EXPERIENCE

PILE FOUNDATIONS

United State Army Core of Engineers (USACE)

- Kentucky Lock Downstream Excavation (June 2021 to July 2021)
  - Drill inspector for 40-pipe piles that were installed to provide sliding/shear resistance for dewatering on the land side of the cellular cofferedam.

Penn State University

- PSU West Parking Garage (February 2020)
  - Project support for the foundation of a multi-level parking garage which consisted of the installation of 740 micro-piles varying in depth and diameter.

Amtrak

- Harrisburg, PA Amtrak Station (June 2019 to July 2019)
  - Project support for the installation of 185 micro-piles for the foundation of a new train platform.

Mylan Park/West Virginia University

- WVU Aquatic Center (March 2018 to April 2018)
  - Inspector for the installation of 88 micro-piles for the diving well of the competition pool.

Education (Linked Style) [Tt Callout Heading]

ME, Geotechnics, Missouri University of Science and Technology, 2020

BS, Civil Engineering, West Virginia University, 2017

Area of Expertise

Geotechnical Engineering

Deep Foundations

Geostructures

Pressure Injection Grouting

Load Testing

Soil and Rock Sampling

Registrations/ Affiliations

Professional Engineer: KY

Training/Certifications

PennDOT Drill Inspector: #431-18

OSHA 10 HR

Office

Morgantown, WV

Years of Experience

4

Years within firm

1

Contact

Jack.Wright@TetraTech.com

TETRA TECH

Eric A. DiFatta, P.E.
Project Engineer

EXPERIENCE SUMMARY

Mr. DiFatta has design experience in traditional & specialty geotechnical structures, including retaining walls (RC, MSEW, S&L/P&P), reinforced earth (RSS, soil nailing, ground anchors), river causeways, cofferdams and deep foundations. His experience also encompasses subsurface exploration and investigation, structural design applied to geo-structures, seepage and stability analyses, erosion and sediment control design, and periodical dam safety compliance inspections. Additionally, Mr. DiFatta has experience in the design of earth & coal refuse dams and impoundments.

RELEVANT EXPERIENCE

ENGINEERING AND DESIGN

Geotechnical Design of Earth Retaining Systems for Development of Compressor Stations, Interconnect Station, Access Roads and Pipeline Corridors – Segments of the Mountain Valley Pipeline (MVP) Project, WV.

- Soil Nailing and Rock bolting systems
- Mechanically-Reinforced Soil Slope (RSS up to 57-feet high)
- Cantilevered Post & Panel Retaining Walls
- Characterization of Material Properties
- Slope Stability Analyses
- Estimate of construction costs, preparation of construction/bid documents, and bod-phase assistance
- Project and Certifying Engineer for all five (5) compressor and interconnect stations

Geohazard Assessments for Major Pipeline Projects – OH, PA, WV

- Reconnaissance for Problem Ground Conditions Along Development Corridors - Landslides, Karst Features, Mine Subsidence, Surface Water and Groundwater Control Issues, Expansive Soils & Rock, etc.
- Construction Phase Investigation of Encountered Hazards (e.g., landslides, UG mines, highwalls, karst sinkholes, groundwater control issues), and Directional Drilling Challenges in Problem Ground
- Field Assessment of Probable Causes
- Engineering & Design of Corrective Actions

Reinforced Concrete (RC) Cantilever spillway walls, Muleshoe Reservoir Dam-Hollidaysburg, PA. Performed the analyses and design for right and left RC spillway walls and also, assisted in the writing of the MathCAD program utilized to more optimally design the spillway walls. Also, performed calculations to evaluate a hydraulic valve house with a single door opening and concrete slab-style roof to be constructed with 8-inch concrete block, reinforced grout-filled (CMU).

Wisecarver Reservoir Dam – Jefferson, PA. Assisted with the engineering & design of the planned Roller Compacted Concrete (RCC) downstream slope buttress and overflow protection system for the Wisecarver Reservoir Dam. Also, performed inspections of the RC emergency spillway channel, sill, and associated retaining walls to determine necessary scope of concrete repairs and improvements, and identify possible voids beneath the spillway slab, and assisted with other field investigations

Emsworth BC Left and Right Abutment Wall Stabilization, Ohio River – USACE, Pittsburgh District. Developed loading diagrams and performed the structural design for stabilization plans encompassing new wall alternatives (reinforced concrete cantilever, concrete gravity, and master pile/combination walls) and hybrid stabilization systems (mechanically stabilized earth, micropiles, rock anchors) for the Emsworth

EDUCATION

B.S. Civil Engineering, University of South Carolina, 2008

AST in CADD, Triangle Tech, 2001

AREA OF EXPERTISE

Geotechnical

REGISTRATIONS/ AFFILIATIONS

Professional Engineer: AL, KY, NJ, OH, PA, TN, VA, WV

American Society of Civil Engineers – Pittsburgh Section

TRAINING/CERTIFICATIONS

MSHA Impoundment Inspection Certification, 2011

Certified ACI Concrete Field Testing Technician, Grade I, Expires 3/2020

MSHA Part 48 Surface Miner Safety Training (24-Hour), 2009

Troxler Certified Nuclear Gauge Operator, 2009

Confined Space Entry, 2003

OFFICE

Monroeville, PA

YEARS OF EXPERIENCE

12

YEARS WITHIN FIRM

5

CONTACT

eric.difatta@tetratech.com

Back Channel Dam left and right abutment walls. Applied graphical and numerical analysis techniques to define the loading diagrams for the existing abutment walls and the alternative stabilization plans.

Prairie State Power Plant – Marissa, Illinois. Performed the geotechnical analyses and structural design for a soil nail wall excavation support system for an Unloading Pit. The temporary soil nail wall was to be for a period of approximately two (2) months. A proposed load (crane) was considered as a dead load and was analyzed to be placed 15 feet away from edge of excavation and located directly at edge of excavation. The primary software used for the geotechnical analyses was SLIDE.

Mine Complex, Greene County – PA. Performed the geotechnical analyses and structural design for an approximate 15-foot high Reinforced Concrete (RC) Cantilever wall for containment of a raw coal stockpile adjacent to a stream. The wall was designed for a D10 dozer surcharge loading. Also, performed slope stability analyses to evaluate the positioning of the retaining wall near the top of the stream bank. MathCAD and SLIDE software and structural analysis spreadsheets were employed for the design.

Bridge Pier Cofferdams & Construction Causeway – Brayman Construction Corp. – Various Projects Designed and Evaluated temporary shoring river causeways and cofferdams that where subject to scour and base seepage for bridge pier and abutment replacements. Provided contractor with design and construction plans for shoring systems and coordinated with the contractor to use salvaged material.

Mine Complex, Greene County - PA Designed and evaluated a Post & Panel Retaining Wall with rock anchors, below an existing coal bin to allow for the construction of a new plant surge bin. The wall had to be designed to allow little to no movement due to the vibration of the existing bin located directly above the proposed wall. The wall heights analyzed ranged from 10-feet to 55-feet, with and without anchors.

FirstEnergy Corp, Hatfield's Ferry CCB Landfill, Greene County - PA Designed and evaluated a reinforced concrete vault to be placed in the existing landfill slope to facilitate cleaning of the leachate conveyance piping system. The vaults were designed to contain a sump area, where the pipes were through. The wall heights analyzed on the vault ranged from 12-feet to 15-feet, with a sloped backfill.

DAM SAFETY INSPECTIONS

Periodic Dam Safety Inspection – Bailey Central Mine Complex; CONSOL Pennsylvania Coal Company, LLC Greene County, PA; 2011 to Present Performed periodic safety inspections on high hazard dams associated with a large mining operation. Evaluated instrumentation data and prepared, sign and seal reports for State and Federal documents regarding current conditions and necessary remediation of deficient conditions for fourteen (14) dams. Coordinated with owner and contractor to remedy deficient conditions maintain safety compliance.

Periodic Dam Safety Inspection – Various Ponds in Alabama; 2020 to Present Performed periodic safety inspections on dams associated with mining operations in Alabama. Evaluated the structures and prepared, sign and seal reports for State and Federal documents regarding current conditions and necessary remediation of deficient conditions for up to eight (8) dams. Coordinated with owner and contractor to remedy deficient conditions maintain safety compliance.

SUBSURFACE EXPLORATION & INSTRUMENTATION

Geotechnical Investigations, Various Clients, Various Locations

- Developed drilling plans, depth of drilling and sampling procedures.
- Assisted in the supervision of exploratory subsurface drilling, pressure testing and test pitting investigation.
- Collected and logged soil and rock samples to be prepared for testing.
- Analyzed laboratory data reports to develop site soil and rock design parameters and assisted in the preparation for geotechnical recommendations for foundation designs.
- Supervised the installation of standpipe piezometers in coal refuse and earthen dam. Performed construction monitoring and quality control duties during the piezometer installation.

MINE REFUSE DISPOSAL/TAILING IMPOUNDMENTS

IP Harmar Holding, LLC – Harmar Slurry Impoundment; Allegheny County, PA; 2018 to Present Certifying Engineer, Performed H&H calculation for of an existing slurry impoundment to obtain a low hazard classification for post-abandonment structure. The abandonment plan consisted of leaving a remnant pond in place with a contributory area of approximately 103 acres with a low-flow outlet system.

FirstEnergy Generation, LLC – Hatfield CCB Landfill Property Ash Slide Remediation; Greene Count, Pennsylvania 2019. Project Engineer responsible for remediation and restoration associated with cleanup and stabilization of an Ash Slide with coordination with PADEP Bureaus of Residual Waste, Water Quality Management, and Waterway and Wetlands. Responsibilities included designing an engineered slope design and performing slope stability analysis, sampling and analysis of the ash for property characterization, construction support and Construction Certification Report. Was certificating engineer

HILL AND ROAD SLIP EXPERIENCE.

- Route 33, Upshur County
- Hillcrest Road. Marion County
- Sycamore Road, Marion County
- Brink Road, Marion County
- Deckers Creek Rail Trail , Monongalia County
- Fort Martin, Monongalia County
- US 340, Jefferson County
- Rockley Road, Monongalia County
- CR 21, Monongalia County

CAMP DAWSON PAVING

Kingwood, WV; 2021

Alpha Associates provided surveying, civil engineering and construction administration services for Camp Dawson and the West Virginia Army National Guard in Kingwood, WV.

This project consisted of the planning, design and construction of new paved surfaces for the MCA Road and the ASP Road on the base at Camp Dawson. The 0.6 mile long MCA Road was a gravel road heavily used by large military vehicles and showed signs of significant wear and damage. Alpha provided a design using a combination of asphalt and concrete pavement that provided a smooth, robust surface that can be easily maintained and last for decades.

The ASP Road was a 0.5 mile long gravel road that served as the only access to ammunition supplies. The steep slope and uneven surface made large deliveries and forklift access impossible. Alpha provided an engineered asphalt road that will provide years of service and accessibility to the facility. The paving design, and drainage improvements made this a successful project for the WV Army National Guard.

At a Glance:

CLIENT: WV Army National Guard
LOCATION: Kingwood, WV
COMPLETION DATE: 2021
CONSTRUCTION COST: $1.2 Million

Project Contact:

Kenneth Goodson CSM
Deputy Branch Chief of Facilities
Facilities Operation Manager
CFMO, WVARNG

SYCAMORE ROAD ROAD SLIP

Clarksburg, WV; 2018

Alpha Associates, Inc provide design services for a slip on Sycamore Road located in Clarksburg, West Virginia. While repairing this road, Alpha was able to provide traffic control allowing the road to still be in function. This project consisted of:

- Surveying
- Slip Repairs
- Culverts
- Guardrails
- Paving

At a Glance:

CLIENT: District 4
LOCATION: Clarksburg, WV
COMPLETION DATE: 2018
SIZE: 5.77 Miles

Project Contact:

2460 Murphys Run Rd
Clarksburg, WV 26330
301-842-1500

ROUTE 33/ROUTE 50 REPAIRS

Clarksburg, WV; 2018

Alpha provided the design, and preparation of contract plans and related documents for the paving and slip repair project in Harrison County, West Virginia. This project begins at the intersection of US 19 and Route 33 and continues approximately 5.77 miles on Route 33 to US Route 50.

The project will include paving along the entire route described above and will include the repair of two slips. Slip one is approximately 130 feet in length and slip two is approximately 60 feet in length. It is anticipated both slips will be repaired utilizing pile and lagging retaining walls.

At a Glance:

CLIENT: WVDOH District 4
LOCATION: Clarksburg, WV
COMPLETION DATE: 2018
SIZE: 5.77 Miles
COST: $118,000

Project Contact:

Donald Williams, PE
2460 Murphys Run Rd
Clarksburg, WV 26330
301-842-1500

DECKERS CREEK RAIL TRAIL

Sabraton, WV; 2015

Alpha Associates, Inc provide design services for a slip on the Deckers Creek Rail Trail located in Sabraton, West Virginia. The construction phase of this project is anticipated to start in Spring of 2020.

This project involves the construction of a

- Gabion retaining wall
- Replacement of the affected portion of the Deckers Creek Trail
- Improving site drainage conditions

At a Glance:

CLIENT: Monongahela Conservation District
LOCATION: Sabraton, WV
COMPLETION DATE: Summer 2020
SIZE: TBD
COST: $162,000

Project Contact:

Don Headley
201 Scott Ave.
Morgantown, WV 26508
304-876-3322

CR 21 SLIP REPAIRS

Blacksville, WV; 2018

This project consisted of surveying and core boring for a slip repair project in Monongalia County, West Virginia. This project included the repair of two slips on CR 21.

Slip one is approximately 48 feet in length and slip two is approximately 320 feet in length. The scope of work on this project is limited to providing a site survey for the slip areas and core boring.

At a Glance:

CLIENT: WVDOH District 4
LOCATION: Blacksville, WV
COMPLETION DATE: 2018
SIZE: 368 ft (combined)
COST: $27,000

Project Contact:

Donald Williams, PE
2460 Murphys Run Rd
Clarksburg, WV 26330
301-842-1500

FAIRMONT STATE UNIVERSITY– MERCHANT STREET RETAINING WALL

Fairmont, WV; 2014

Fairmont State University asked Alpha to design a replacement for an existing retaining wall on its Merchant Street campus. The existing poured in place concrete wall, which supported the building's parking lot, was failing; becoming unsafe, and unsightly. About 200 feet long and as much as 20 feet tall, the wall was a problem that needed a well-engineered solution. Alpha investigated alternative retaining wall designs ranging from poured in place concrete, precast tilt-up concrete panels, and segmental walls. After Alpha provided cost-benefit analyses, the University chose the Redi-Rock alternative, a large scale segmental retaining wall system. Addressing safety, drainage, and the replacement of the wall, Alpha was able to design the wall system, and produce construction documents for contractor bidding. Working with the contractor through construction, the final product is a cost efficient, aesthetically pleasing solution that will serve the University for decades.

At a Glance:

CLIENT: Fairmont State University
LOCATION: Fairmont, WV
COMPLETION DATE: 2014
SIZE: 200' x 20' Retaining Wall
CONSTRUCTION COST: $309,000

Project Contact:

Lenora Montgomery
1201 Locust Avenue
Fairmont, WV 26554
304-367-4657

The State of West Virginia

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

By Frank L. Goldy

The State of West Virginia

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

The State of West Virginia

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 [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 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

By

Secretary Frank L. Gaddy

Kenneth H. Means

Manuel F. Jickling — President

Robert B. Scott

The State of West Virginia

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

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 *19*94

Wm E Yoke Jr *President.*

E. Keith Dunn *Secretary.*

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 sucessful 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