



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](http://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](http://WVPurchasing.gov) with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 1

List View

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

Procurement Folder: 1014786

Procurement Type: Central Purchase Order

Vendor ID: 000000203864

Legal Name: S & S ENGINEERS INC

Alias/DBA:

Total Bid: \$0.00

Response Date: 04/11/2022

Response Time: 15:24

Responded By User ID: ssengineers

First Name: Jessie

Last Name: Parker, Jr.

Email: jop@s-s-eng.com

Phone: 304-342-7168

SO Doc Code: CEOI

SO Dept: 0313

SO Doc ID: DEP220000009

Published Date: 4/13/22

Close Date: 4/14/22

Close Time: 13:30

Status: Closed

Solicitation Description: AML- Blue Knob Complex/EOI

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:** 1014786  
**Solicitation Description:** AML- Blue Knob Complex/EOI  
**Proc Type:** Central Purchase Order

| Solicitation Closes | Solicitation Response        | Version |
|---------------------|------------------------------|---------|
| 2022-04-14 13:30    | SR 0313 ESR04112200000006227 | 1       |

**VENDOR**  
 000000203864  
 S & S ENGINEERS INC

**Solicitation Number:** CEOI 0313 DEP2200000009  
**Total Bid:** 0  
**Response Date:** 2022-04-11  
**Response Time:** 15:24:46  
**Comments:**

**FOR INFORMATION CONTACT THE BUYER**

Joseph E Hager III  
 (304) 558-2306  
 joseph.e.hageriii@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    | EOI Engineering Design Services |     |            |            |                             |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 81100000  |              |               |         |

**Commodity Line Comments:** No Bid

**Extended Description:**

EOI Engineering Design Services

April 13, 2022



Department of Administration  
Attn: Mr. Joseph E. Hager III  
2019 Washington Street East  
Charleston, WV 25305

507 Richland Ave, Suite 201  
Athens, OH 45701  
740.447.5000

Re: DEP2200000009 - AML- Blue Knob Complex/EOI

To Mr. Joseph E. Hager III / Purchasing Division:

We are pleased to submit our expression of interest for providing professional services for the above referenced project.

S & S Engineers, Inc. (S & S) is a highly qualified and experienced environmental / civil engineering firm providing services for municipal, federal, state, industrial and commercial clients throughout the States of West Virginia, Ohio, Virginia, Kentucky.

S & S provides similar services to the Kanawha County Commission, Nitro Regional Wastewater Utility, Town of Fort Gay, Town of Reedy, City of Sistersville, Kanawha PSD, etc.

For over 41 years S & S has a history of completing projects on time, under budget and without any successful litigation against us or our client, a record no other firm can match in West Virginia.

We would appreciate an opportunity to present our detailed qualifications at a mutually convenient date and time.

Please call if you have any questions or need further information.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Christopher Burford', is written over a light blue, stylized graphic element that resembles a large, curved arrow or a gear-like shape.

Christopher Burford – COO  
S & S Engineers, Inc.

Enclosures

WATER / WASTEWATER  
SITE DEVELOPMENT / SURVEYING  
STRUCTURAL / GEOTECHNICAL

S-S-ENG.COM

# WV DEPARTMENT OF ADMINISTRATION



**Request For Proposal  
For  
Engineering Services  
For  
AML- Blue Knob Complex/EOI**

**April 2022**

**Presented by:**

**S & S Engineers, Inc.  
501 Eagle Mountain Road  
Charleston, WV 25311  
(304) 342-7168**

**New River Engineering, Inc.  
202 School Drive  
Shrewsbury, WV 25015  
(304) 595-3290**

**507 Richland Avenue, Suite 201  
Athens, OH 45701  
(740) 447-5000**

**156 Woodrow Avenue, Suite 2A  
St. Clairsville, OH 43950  
(740) 695-9977**





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

|  |                            |                         |                                 |
|--|----------------------------|-------------------------|---------------------------------|
| <b>Proc Folder:</b> 1014786                        |                            |                         | <b>Reason for Modification:</b> |
| <b>Doc Description:</b> AML- Blue Knob Complex/EOI |                            |                         |                                 |
| <b>Proc Type:</b> Central Purchase Order           |                            |                         |                                 |
| <b>Date Issued</b>                                 | <b>Solicitation Closes</b> | <b>Solicitation No</b>  | <b>Version</b>                  |
| 2022-03-21   | 2022-04-13 13:30           | CEOI 0313 DEP2200000009 | 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 :** New River Engineering, Inc.

**Address :** 202 School Drive

**Street :**

**City :** Shrewsbury

**State :** WV **Country :** USA **Zip :** 25015

**Principal Contact :** Christopher Burford

**Vendor Contact Phone:** (304) 595-3290 **Extension:**

**FOR INFORMATION CONTACT THE BUYER**

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

**Vendor Signature X** *Christopher D. Burford* **FEIN#** 55-0764054 **DATE** 4/8/2022

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

**ADDITIONAL INFORMATION**

The Acquisitions and Contract Administration Section of the Purchasing Division is soliciting an Expression of Interest for the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands and Reclamation per the specifications and terms and conditions.

The mission or purpose of the project for which bids are being solicited is to provide the following design services for the Blue Knob Complex project.

- .Mine portal reclamation
- .Drainage control items
- .Erosion and sediment control
- .Coal refuse reclamation
- .Slope stabilization
- .Structure Demolition
- .Geotechnical evaluation
- .Hydrologic and hydraulic analysis

| INVOICE TO   | SHIP TO  |
|--|--|
| ENVIRONMENTAL PROTECTION<br>OFFICE OF AML&R<br>601 57TH ST SE<br>CHARLESTON WV 25304<br>US | ENVIRONMENTAL PROTECTION<br>OFFICE OF AML&R<br>601 57TH ST SE<br>CHARLESTON WV 25304<br>US |

| Line | Comm Ln Desc                    | Qty | Unit Issue |
|------|---------------------------------|-----|------------|
| 1    | EOI Engineering Design Services |     |            |

| Comm Code | Manufacturer | Specification | Model # |
|-----------|--------------|---------------|---------|
| 81100000  |              |               |         |

**Extended Description:**  
EOI Engineering Design Services

**SCHEDULE OF EVENTS**

| <u>Line</u> | <u>Event</u> | <u>Event Date</u> |
|-------------|--------------|-------------------|
|-------------|--------------|-------------------|



|              | Document Phase | Document Description       | Page |
|--------------|----------------|----------------------------|------|
| DEP220000009 | Final          | AML- Blue Knob Complex/EOI | 3    |

**ADDITIONAL TERMS AND CONDITIONS**

See attached document(s) for additional Terms and Conditions

**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.

---

(Name, Title)

---

(Printed Name and Title)

---

(Address)

---

(Phone Number) / (Fax Number)

---

(email address)

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

*By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law.*

---

(Company)

*Christopher D. Burford*  

---

(Authorized Signature) (Representative Name, Title)

---

(Printed Name and Title of Authorized Representative)

---

(Date)

---

(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 exceeds 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: New River Engineering, Inc.

Authorized Signature: Christopher D. Burford Date: 4/8/2022

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 8<sup>th</sup> day of April, 2022

My Commission expires September 25, 2025

AFFIX SEAL HERE



NOTARY PUBLIC

Christ Mays

Purchasing Affidavit (Revised 01/19/2018)

**Department of Administration  
AML- Blue Knob Complex/EOI**

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## Department of Administration AML- Blue Knob Complex/EOI

### EXPRESSION OF INTEREST

S & S Engineers, Inc. (S & S) and New River Engineering Inc. (NREI) is pleased to express our interest in providing environmental, engineering, architecture, and surveying services to the West Virginia Department of Administration as needed. S & S Engineers was established in 1980 and NREI was established in 1998 giving both companies a combined 60 years of experience. Our team is a West Virginia based civil / environmental engineering firm and is noted for design excellence and client focus. Our team's integrated design approach, our commitment to design quality, as well as our architectural and construction experience will help to ensure the quality of services that we will provide to the WV Department of Administration. Below, please find additional qualifications that make our team uniquely qualified to assist you with your potential needs:

We have a history of providing high quality design and engineering management services throughout West Virginia, Kentucky, Ohio, and Virginia. This quality has been recognized by the quantity of our repeat clients. We will use our engineering abilities and extensive design experience to aid the WV Department of Administration as any need would arise.

As President of our firm, Mr. Jessie O. Parker, Jr., P.E. will lead projects for the city. Mr. Parker has a Bachelor of Science in Civil Engineering from WVU Institute of Technology and a Master of Science in Engineering from Marshall University. Mr. Parker has a vast amount of experience working in the municipal market and has spent his entire career in the utility / infrastructure sector of engineering. Mr. Parker will be assisted by Mr. Matt Shelton, VP, PM, Mr. Christopher Burford, COO, PM, Mr. Elijah Laramée, P.E., Mr. Ashok Sanghavi, P.E., DEE, QEP, Mr. Randy Crace, P.S., Mr. Charles Kurzyna P.E., P.S., Mr. Charles Strobe P.E., and the rest of our staff.

We have the training, experience, and multi-discipline support to meet the needs of our clients. Due to our small size, our Engineers and Architects become well rounded and deeply involved with each project. Our Engineers and Architects are able to put their heads together to create an excellent working knowledge of projects, creating high quality, personalized, and professional services. We would like to thank you for this opportunity and if we can be of service to you in this matter, please don't hesitate to contact us at (304) 342-7168.



S & S Engineers, Inc.  
RFP for Blue Knob Complex

New River Engineering, Inc.



## COMPANY PROFILE

### S & S ENGINEERS, INC.

S & S Engineers, Inc. (S & S) is an engineering, surveying, and consulting firm founded in 1980 in Charleston, WV and has been providing quality service to our clients for over 41 years. The firm is currently managed by Mr. Jessie O. Parker, Jr., P.E. - President, Mr. Christopher D. Burford - COO and Mr. Matt Shelton - Vice President. S & S has successfully provided an integrated approach to utility projects for our clients. S & S provides professional services to facility owners and operators, architects, and contractors throughout West Virginia, Kentucky, Ohio, Virginia and North Carolina and many others. S & S services range through all facets of civil engineering design as well as construction administration and project management.

S & S remains committed to the idea of providing high quality, client focused, design solutions that meet budget and schedule requirements. This commitment to quality has been recognized through the long-term client relationships that we have developed. S & S has the qualified professionals available to provide services throughout the duration of a project from the initial planning phases through construction completion and beyond.

S & S utilizes the abilities of designers with many years of experience in their area of expertise, teamed with younger designers on a "best resource for the project approach". We also provide project management services at levels ranging from general oversight to complete project delivery through all phases of design and construction. Our personnel have worked in both the private and public sector and are familiar with many methods of project delivery.

S & S has developed the following philosophy to guide the performance of its services:

- Provide superlative design services to our clients in new construction, improvements, and daily operations.
- Perform work in a timely, accurate and professional manner.
- Present multiple alternatives and solutions whenever possible.
- Work with our clients to control project costs.
- Be a technical sounding board for our clients in all situations.
- Strive to maintain professional competency through continuing education and training.

S & S utilizes a practical application approach to all projects throughout the design process to provide a well-rounded result. This methodology emphasizes the best overall solution, meeting all the client's needs, instead of just the best technical solution. We believe our small size provides a distinct advantage to our clients and affords us the freedom to easily team with the clients to achieve the overall best possible result.



S & S Engineers, Inc.  
RFP for Blue Knob Complex

New River Engineering, Inc.



## COMPANY PROFILE

### NEW RIVER ENGINEERING, INC.

New River Engineering, Inc. (NREI) is an engineering, surveying, and consulting firm that has been providing quality service to the industries for over 20 years. Mutual respect and trust are the cornerstones in the relationships established and maintained with our clients. NREI strives to perform all work in a professional and cost-effective manner, while providing our clients with quality and excellence. NREI primarily serves the coal, oil & gas, timber, and construction industries.

Our staff combines advanced technology with many decades of surveying, mining, mining, and engineering experience and includes two professional engineers, one professional surveyor, four degreed engineers, AutoCAD/engineer technicians and ten full time survey crews.

As a full-service engineering and surveying firm, NREI can provide a whole host of services to our clients including, but not limited to the following:

- Construction Design
- Construction Management
- Construction Surveying
- Geotechnical Engineering & Drilling Management
- Environmental Permitting (WVDEP, NPDES, OAQ and USACOE)
- Underground / Surface Mine Engineering
- Underground / Surface Mining Surveying
- Civil Site Design / Engineering / Planning
- Drainage Design / Engineering / HECRAS
- Aerial Mapping
- Compaction Testing with Nuclear Density Gauge
- Subsurface Utility Locate Surveys with Ground Penetrating Radar & Pipe and Cable Locators
- Ohio DNR Environmental Permitting
- Oil & Gas Surveying
- Boundary & Property / Topographical Surveying
- GPS RTK & Static Surveying
- Reserve Studies



S & S Engineers, Inc.  
RFP for Blue Knob Complex

New River Engineering, Inc.



## COMPANY PROFILE

### GREEN & ASSOCIATES, LLC

Green and Associates, LLC is located in St. Clairsville, Ohio and is a subsidiary of NREI. Green and Associates, LLC has been providing quality surveying services for over 35 years to the following clients: oil and gas industries, coal industry, industrial, public service district, commercial, and residential. Green and Associates, LLC has established itself as one of the area's most prestigious surveying firms.

Green and Associates, LLC can provide a host of surveying services to our clients but not limited to the following:

- Well Pad Plats / Unit Surveys
- Well Pad & Horizontal Boundary Surveying
- Ohio DNR Permitting
- Well Pad Design & Layout
- Well Pad As-Built Certifications
- Establishment of Water Line for Drilling Projects
- Construction Stake-Outs
- Drone Aerial Flight Surveys & Photos
- Sub-Division Design & Layout
- Property Boundary Surveying
- Topographical Surveys
- RTK GPS Surveying



S & S Engineers, Inc.  
RFP for Blue Knob Complex

New River Engineering, Inc.





## SCOPE OF WORK

West Virginia Department of Administration, is looking for qualified firms to provide architectural/engineering and design services for the Blue Knob Complex project. The WV Department of Administration is requesting the following services:

- Mine Portal Reclamation
- Drainage Control Items
- Erosion and Sediment Control
- Coal Refuse Reclamation
- Slope Stabilization
- Stream Erosion
- Geotechnical Evaluation
- Hydrologic and Hydraulic Analysis

New River Engineering, Inc., will provide any other services required by the WV Department of Administration for the implementation of the current project.



S & S Engineers, Inc.  
RFP for Blue Knob Complex

New River Engineering, Inc.



## **PLAN OF APPROACH**

S & S Engineers, Inc. (S & S) and New River Engineering Inc. (NREI) are fully aware of the Department of Administrations needs, having served various communities in West Virginia for over 41 years. S & S and NREI believes in offering personal services as well as professional services. The following is a draft approach from project conception through project completion of the services S & S and NREI can provide.

S & S and NREI believes in a team approach for the development of projects. Therefore, our first task will be to meet with Administration officials to review existing data, reports, etc., and to ascertain the need of the specific project. Following data gathering, we will then evaluate alternatives and develop a cost-effective proposal that meets existing and future needs of a specific project. Throughout the process, Administration officials will be kept informed and involved in all important matters.

S & S and NREI will assist the Administration in preparation and submission of any funding application needs. Once the funding has been secured, we will then begin to develop detailed engineering drawings and specifications for the project. As information is gathered, it will be reviewed with the Administration to allow comment and coordination as the project progresses. The project engineer will be involved during all phases of developing a project, obtaining funding, design, and construction to assure coordination with personnel, and regulatory and funding agencies.

## **PRELIMINARY ENGINEERING REPORT (IF NEEDED)**

Our next task will be the preparation of a Preliminary Engineering Report. Specifically, the report will be organized in accordance with regulatory and funding agency requirements as follows:

1. Introduction and Overview
2. Planning Area and Future Needs
3. Evaluation of the Existing System
4. Proposed Improvements/Upgrades
5. Alternate Solutions
6. Cost Estimates – Capital and O & M
7. Environmental Issues
8. Public Participation
9. Final Plan Selection
10. Implementation

Prior to publication of the final report, all information will be shared and reviewed with the Department of Administration officials to assure that concerns are addressed.



## **DESIGN PHASE**

Initially NREI/S&S will request any additional documentation relative to the project that has not already been provided. This may include other viable sites already being considered, access route locations, topographic surveys, etc. Upon review of this information, NREI/S&S will begin meeting with your designated representatives to review and discuss preferred site features and orientations. Once the site and orientation are confirmed NREI/S & S will begin preparing the design drawings and specifications.

Upon completion of the preliminary design drawings NREI/S & S will schedule a second meeting to present the design and preliminary cost estimate to the designated officials for review and comments. NREI/S & S will then revise the design drawings and cost estimate to reflect any comments from Administration officials.

## **CONSTRUCTION DOCUMENTS PHASE**

Once the final design is complete NREI/S & S will begin procuring the necessary permits and preparing the bidding and construction documents, details, and specifications for the project. NREI/S & S will provide a 90% submission to the owner for review and comment to allow minor modifications prior to final binding and printing.

## **BIDDING PHASE**

During this phase NREI/S & S will assist by participating in the pre-bid meeting, answer addendum questions and reviewing contractor bids. NREI/S & S can also assist in the preparation of the construction agreement as required.

## **CONSTRUCTION PHASE SERVICES**

During construction our services include review of shop drawings and submittals, conducting regular progress site meetings, reviewing and preparing change orders and payment applications, conducting substantial and final inspections and reviewing close out documents.

NREI/S & S can also provide a Resident Construction Inspector for the duration of the project construction.

## **SCHEDULE**

Upon selection NREI/S & S can begin working on the project immediately.



S & S Engineers, Inc.  
RFP for Blue Knob Complex

New River Engineering, Inc.



## PROJECT EXPERIENCE

1. **Maple Eagle Complex, Fayette / Kanawha County, WV**
  - **Description:** Engineering, Environmental Permitting, Design & Construction Management for a Surface Mine and Deep Mine Facility. Activities include: Environmental Permitting, Pond Design & Construction, Primary Haulroad / IUAR Design & Construction, Preparation of Mine Plans, Prospecting / Drilling Operations, Valley Fill Designs & Certifications, Excess Spoil Disposal Areas, Surface Mine Surveying Activities, Sediment Control Structures, Support for Excavation of Overburden & Removal of Coal, Underground Deep Mine Surveying, Preparation of Underground Mine Mapping, WVOMHS&T & MSHA Plans (including Ventilation, Ground Control, & Roof Control Plans), Underground Mine Seal Plans, SWORA Evaluations, Phase Maps, and Site Supervisor / Project Manager.
  - **Funding Source:** Maple Coal Co., Western Coal, Walter Resources, ERP Fuels, and currently Blackhawk Mining
  - **Project Cost:** Approximately \$8,500,000 to Current
  - **Project Status:** Started December 2005 and continues currently
  
2. **American Mining Group, Fayette County, WV**
  - **Description:** Engineering, Environmental Permitting, Design & Construction Management for a Surface Mine Facility. Activities include: Environmental Permitting, Pond Design & Construction, Primary Haulroad / IUAR Design & Construction, Preparation of Mine Plans, Prospecting / Drilling Operations, Excess Spoil Disposal Areas, Surface Mine Surveying Activities, Sediment Control Structures, Support for Excavation of Overburden & Removal of Coal, WVOMHS&T & MSHA Plans (including Ground Control, Plans), SWORA Evaluations, Phase Maps, and Site Supervisor / Project Manager.
  - **Funding Source:** American Mining Group
  - **Project Cost:** Approximately \$850,000 to Current
  - **Project Status:** Started Circa 2018 and continues currently
  
3. **Cyprus Kanawha Corp, Fayette County, WV**
  - **Description:** Completed USACOE permitting requirements to expand a coal barge loading facility located on the Kanawha River. The expansion consisted of the construction of additional steel pile mooring cells, additional barge storage and increased loading speed of barges.
  - **Funding Source:** Cyprus Kanawha Corp
  - **Project Cost:** \$1,000,000
  - **Project Status:** Completed 1990 on Schedule



4. **United Coal Company, LLC (including Pocahontas Coal Company, LLC & Carter Roag Coal Company), Raleigh, Wyoming, Randolph, & Upshur County, WV**
  - **Description:** Coal Mining/Environmental Planning, Permitting, and Coordination including; engineer site review and reconnaissance; mine layout and design; drainage design; haulage layout and design; spoil balance and reclamation design; stream delineation and USACE permitting and approvals; WVDEP permit submittals and approvals including Article 3, Article 11, and Storm Water Construction; on-site construction stakeout; surveying, both surface and underground; field management and on-site project coordination; as-built certifications; coal slurry impoundment and coarse refuse disposal management, coordination, surveying, and design; and daily contact and coordination between the company, field personnel, and office personnel to ensure the proper running of daily mining and environmental activities and needs for various on-going mining and environmental projects.
  - **Funding Source:** Private Business Coal Extraction & Sales
  - **Project Cost:** \$13,400,000 average for completed and on-going services
  - **Project Status:** Began Circa August 2006 and continues currently
  
5. **TC Energy, Various Locations, WV, OH, VA, PA, KY, MI, NY, NJ & Etc.**
  - **Description:** Engineering, Surveying and Drafting for Multiple Projects Across the Eastern United States. Provide Surveying, Engineering and Drafting Support for the Long Wall Program, HCA Wire-Line Program, HCA-Dig Program, HCA-Hydro Test Programs, and Right-Of-Way Program. Provide Engineering & Geotechnical for Hazardous Steep Slope Winch Plans for Construction Operations.
  - **Funding Source:** Private Business / TC Energy
  - **Project Cost:** Approximately \$3,500,000 and on-going
  - **Project Status:** Started Circa 2017 and continues currently
  
6. **Nitro Regional Wastewater Utility, Kanawha County, WV**
  - **Description:** Planning including preliminary engineer site and system review and assessment, design, and construction management of a sewer line extension and construction of a new Belt Filter Press Building and Belt Filter Press.
  - **Funding Source:** WVDEP-CWSRF
  - **Project Cost:** \$8,226,840, completed project approximately \$100,000 under budget and used savings to upgrade the wastewater treatment plant headworks
  - **Project Status:** Completed 2017



7. **City of Sistersville, Tyler County, WV**
  - **Description:** Planning including preliminary engineer site and system review and assessment, design, and construction management of a new wastewater collection system in the Hanford City area with pump station and related work.
  - **Funding Source:** WVDEP-CWSRF
  - **Project Cost:** \$1,100,000, completed project approximately \$100,000 under budget and used savings to replace approximately 800 LF of existing sewer line
  - **Project Status:** Completed 2014
  
8. **Kanawha PSD, Kanawha County, WV**
  - **Description:** Planning including preliminary engineer site and system review and assessment, design, and construction management of 6 miles of gravity sewer & force mains, two (2) pump stations and three (3) grinder pump stations for Winifrede Hollow.
  - **Funding Source:** WVDEP-CWSRF
  - **Project Cost:** \$5,370,000, completed project approximately \$450,000 under budget and used savings to purchase equipment, replaced diffusers in aeration basins at the WWTP, constructed a new laboratory
  
9. **Coal Corporation, Logan County, WV**
  - **Description:** Planning and design of a water line extension project which also included a water booster station and a 27,000-gallon water storage tank.
  - **Funding Source:** Patriot Coal Corporation
  - **Project Cost:** \$1,200,00
  - **Project Status:** Completed 2010
  
10. **Pocahontas Coal Company, Raleigh County, WV**
  - **Description:** Planning and design of a water and sewer line extension project which also included wastewater pump station.
  - **Funding Source:** Pocahontas Coal Company
  - **Project Cost:** \$400,000
  - **Project Status:** Completed 2010



11. **WVDOC Denmar Correctional Center, Pocahontas County, WV**
  - **Description:** Planning, design, and construction management of the replacement of two (2) water storage tanks with one 300,000-gallon water storage tank.
  - **Funding Source:** WVDOC
  - **Project Cost:** \$600,000
  - **Project Status:** Completed March 2015
  
12. **WVDNR Bluestone State Park, Summers County, WV**
  - **Description:** Planning, design, and construction management of the replacement of water line which also included the two (2) pressure reducing stations.
  - **Funding Source:** WVDNR
  - **Project Cost:** \$450,000
  - **Project Status:** Completed 2011



## FUNDING

S & S and NREI will assist the WV Department of Administration in preparation and submission of any grant / loan funding applications needed, such as to the WV Infrastructure & Jobs Development Council (IJDC), US Department of Agriculture - Rural Development (USDA-RD), WV Bureau of Public Health (BPH) - Drinking Water Treatment Revolving Fund (DWTRF), WV Department of Environmental Protection (DEP) – Clean Water State Revolving Fund (CWSRF), HUD - Community Development Block Grant (CDBG), Appalachian Regional Commission (ARC), Governor’s Partnership Grant, Private Bank funding, etc. We will represent the Agency and coordinate with the various funding agencies to obtain a favorable funding package. Once the funding has been secured, we will then begin to develop detailed engineering drawings and specifications for the project. As information is gathered, it will be reviewed with Agency officials to allow comment and coordination as the project progresses. The project engineer will be involved during all phases of developing a project, obtaining funding, design and construction to assure coordination with the Agency personnel, and regulatory and funding agencies.



S & S Engineers, Inc.  
RFP for Blue Knob Complex

New River Engineering, Inc.





## PROJECT MANAGEMENT

With over 100 years of combined professional experience, the project team will be made up of the following personnel, along with the rest of S & S Engineers and New River Engineering:

|   |  |
|---|--|
| Jessie O. Parker, Jr., P.E.<br>Email: <a href="mailto:jop@s-s-eng.com">jop@s-s-eng.com</a>                      | President (S&S) / Principal Engineer                           |
| Christopher D. Burford<br>Email: <a href="mailto:cburford@nrei-wv.com">cburford@nrei-wv.com</a>                 | Chief Operating Officer (S&S)/ President (NREI)                |
| D. Matt Shelton<br>Email: <a href="mailto:dms@s-s-eng.com">dms@s-s-eng.com</a>                                  | Vice President (S&S) / Project Manager                         |
| Elijah T. Laramee, P.E.<br>Email: <a href="mailto:etl@s-s-eng.com">etl@s-s-eng.com</a>                          | Senior Engineer  |
| Ashok M. Sanghavi, P.E., DEE, QEP<br>Email: <a href="mailto:a.sanghavi@s-s-eng.com">a.sanghavi@s-s-eng.com</a>  | Senior Engineer  |
| Charles "Chuck" B. Kurzyna, P.E., P.S.<br>Email: <a href="mailto:ckurzyna@nrei-wv.com">ckurzyna@nrei-wv.com</a> | Vice President (NREI) / Sr. Engineer/<br>Professional Surveyor |
| Charles "Charlie" T. Strope, P.E.<br>Email: <a href="mailto:cstrobe@nrei-wv.com">cstrobe@nrei-wv.com</a>        | Principal Engineer (NREI)                                      |
| Randy B. Crace, P.S.<br>Email: <a href="mailto:r.crace@s-s-eng.com">r.crace@s-s-eng.com</a>                     | Senior Surveyor  |
| J. Michael "Mike" Green, P.S.<br>Email: <a href="mailto:mgreen@greenandassoc.net">mgreen@greenandassoc.net</a>  | Senior Surveyor  |
| Benjamin Treadway<br>Email: <a href="mailto:btreadway@nrei-wv.com">btreadway@nrei-wv.com</a>                    | Project Manager  |
| Mike Noel, NCARB<br>Email: <a href="mailto:mike.noel5050@gmail.com">mike.noel5050@gmail.com</a>                 | Lead Architect   |
| Vincent Scriptunas<br>Email: <a href="mailto:vscriptunas@nrei-wv.com">vscriptunas@nrei-wv.com</a>               | Senior Engineer  |





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## RESUMES OF KEY PERSONNEL



**Jessie O. Parker, Jr., P.E.**  
**President / Senior Engineer**  
**S & S Engineers, Inc.**

Mr. Parker began his career at S & S in 2003 working on a variety of environmental projects throughout West Virginia, Kentucky, Ohio, and Virginia. Mr. Parker has served in the capacity of Engineer, Project Manager, and Principal in Charge for a variety of projects at S & S. This experience includes environmental, water supply, wastewater, storm water and drainage projects. Mr. Parker's responsibilities include planning, design, and construction administration.

Mr. Parker also has experience in grading plans, construction management, payment request approvals, quantity & cost estimates, and has worked with City, Town & PSD personnel, regulatory and funding agencies, as well as contractors.

Mr. Parker has proven to move projects forward in a professional, cost-effective, and timely manner. Has extensive knowledge of the state and federal water supply, and wastewater laws and regulations and is very familiar with federal and state grant and loan programs.

### **EDUCATION**

#### **Bachelor of Science**

Civil Engineering  
West Virginia University  
December 2002

#### **Master of Science**

Engineering  
Marshall University  
May 2006

### **CERTIFICATIONS**

Environmental Site Assessment  
Commercial Real Estate  
December 2016

Professional Engineer (WV)  
Professional Engineer (OH)  
Professional Engineer (KY)  
Professional Engineer (VA)  
Professional Engineer (MD)  
Professional Engineer (NC)  
Professional Engineer (SC)  
Professional Engineer (PA)  
Professional Engineer (TN)

### **PROFESSIONAL AFFILIATIONS**

Water Environment Federation  
American Water Works Association  
American Society of Civil Engineers  
Society of American Military Engineers  
West Virginia Rural Water Association  
Contractors Association of West Virginia



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New River Engineering, Inc.





**Christopher D. Burford**  
**COO / Project Manager: S & S Engineers, Inc.**  
**President: New River Engineering, Inc.**  
**Green and Associates, LLC**  
**New River Safety, LLC**  
**Ellison Ridge Mining, LLC**

Mr. Burford has been with NREI for over fifteen years. As the President and Project Manager for New River Engineering, Inc., he oversees Surface and Underground Mining Permit Applications, is the Manager of Surveying Crews, manages State and Federal Safety Plans and Permits, oversees Construction Oversight & Construction Management, and Mine Planning.

Green and Associates, LLC, St. Clairsville OH – manager and supervisor of survey crews and office personnel, business development, and coordination with clients on various projects.

New River Safety, LLC, – manager and Supervisor of safety instructors, electrical inspectors, and office personnel, business development, and coordination with clients and government entities.

Ellison Ridge Mining, LLC – management and oversight of various sub-contractors over mining, reclamation, and civil site construction projects, business development, and coordination with clients and government entities.

**EDUCATION**

**Associate of Science**

Civil Engineering Technology  
 West Virginia University Institute of Technology  
 May 2004

**CERTIFICATIONS**

Certified Underground Coal Miner  
 Certified Surface Coal Miner  
 MSHA Certified Limited Instructor  
 MSHA Certified Gravimetric Dust Sampling  
 MSHA Certified Gravimetric Dust Calibration & Maintenance  
 Heartsaver First Aid, CPR & AED Certified  
 Safe Land USA PEC Safety  
 MSHA – Methane / Oxygen Deficiency Qualified  
 APNGA Portable Nuclear Gauge Safety & USDOT Hazmat Certified  
 [REDACTED]  
 APNGA Certificate of Achievement  
 Radiation Safety Officer Class  
 [REDACTED]

**PROFESSIONAL AFFILIATIONS**

Contractors Association of West Virginia  
 West Virginia Rural Waters Association  
 West Virginia Coal Association  
 Friends of Coal Association



**Charles "Chuck" Kurzyna, P.E., P.S.**  
**Senior Engineer / Senior Surveyor**  
**New River Engineering, Inc.**

Former President and Principal Owner of New River Engineering Inc., established in 1998. New River Engineering has been performing surveying and engineering for the coalmining and construction industries.

Mr. Kurzyna has over 30 years of engineering and management experience in the mining industry and consulting business. He specializes in surface and underground mine design, planning, and surveying; environmental and safety permitting; project and construction management.

Project Manager for a consulting engineering firm, responsible for job estimates and bidding, supervise office staff in engineering related projects including surface mine surveying, reclamation and permitting, reserve studies, etc.

Chief Engineer for a small mining and construction company, responsible for mine planning, production tracking, construction job bidding, construction engineering, etc.

Chief Engineer, Senior Engineer for the Lady Dunn Surface Mine & Preparation Plant; coal reserve evaluations; project engineering for mine related facilities; environmental permits for large surface and deep mining operation; etc.

## **EDUCATION**

### **Bachelor of Science**

Mine Engineering Technology  
West Virginia Institute of Technology  
May 1979

### **Associate of Science**

West Virginia Institute of Technology  
May 1977

## **CERTIFICATIONS**

Professional Engineer (WV)  
Professional Engineer (OH)  
Professional Engineer (PA)  
Professional Engineer (VA)  
Professional Engineer (KY)  
Professional Engineer (GA)  
Professional Surveyor (WV)  
Underground Mine Foreman  
Surface Mine Foreman

## **PROFESSIONAL AFFILIATIONS**

Contractors Association of West Virginia  
West Virginia Coal Association  
Friends of Coal Association  
Society of Mining Engineers



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**Charles T. Strope, P.E.**  
**Senior Engineer**  
**New River Engineering, Inc.**

Responsible for mine planning and permitting, monthly production reports for clients and hazardous slope plans for oil and gas line construction.

Geotechnical Engineer for TRC Engineers, Inc. – Charleston, WV, Project Engineer on various construction projects including US Route 35 expansion at Buffalo, WV, Jefferson Road Improvements in South Charleston, WV and the Hobet Mine Access Road in Madison, WV. Engineering Analysis performed including stability of road fills and road cuts, settlement analysis, retaining wall design, and performed boring inspection in the field.

Highway Engineer Associate (West Virginia Division of Highways, Charleston, WV) Responsible for performing construction inspections and preparing daily progress reports to be utilized in determining state payments to contractors.

Staff Engineer at NREI (2010-2014) Responsible for updating mine maps, monthly production reports and supplying clients with updated mine maps, escape-way maps, ventilation maps etc. Engineering analysis performed on coal pillar stability.

**EDUCATION**

**Master of Business Administration**  
West Virginia University  
June 2010

**Bachelor of Science**  
Civil Engineering  
West Virginia University  
May 2009

**Bachelor of Science**  
Mining Engineering  
West Virginia University  
May 2009

**CERTIFICATIONS**

- Professional Engineer (WV)
- Professional Engineer (OH)
- Professional Engineer (KY)
- Professional Engineer (MI)
- Professional Engineer (IL)
- Professional Engineer (PA)
- Professional Engineer (MD)

APNGA Portable Nuclear Gauge  
Safety & USDOT Hazmat Certified

APNGA Certificate of Achievement  
Radiation Safety Officer  
Class [REDACTED]

**PROFESSIONAL AFFILIATIONS**

- Contractors Association of West Virginia
- West Virginia Coal Association
- Friends of Coal Association



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**Ben Treadway**  
**Engineer / Project Manager**  
**New River Engineering, Inc.**  
**S & S Engineers, Inc.**  
**Green and Associates, LLC**

Mr. Treadway is a 2005 graduate of WVU Tech with a B.S. in Civil Engineering Technology. He has over 10 years of experience in the engineering and consulting fields. Ben has experience in surveying, soil testing, and permitting and is proficient utilizing AutoCAD and SurvCadd for engineering design.

New River Engineering, Inc.—Shrewsbury, WV, Surface and Underground Mining Permit Applications, Surveying – Surface and Underground, 3D modeling, Slope Stability, USACE Permitting, Geologic Modeling, and Storm Water Construction

West Virginia Division of Homeland Security and Emergency Management – Big Chimney, WV, Performed flood elevation surveys for flooded homes in West Virginia. Used GPS to set benchmarks, determined base flood elevations, determined flood zones and stream data, filled out targeting sheets for homes with appropriate data.

West Virginia Department of Highways – Lewisburg, WV, Checked steel reinforcing placed within bridge piers for proper installation, filled out daily reports, calculated area of steel placed day-to-day, checked for proper bolt torque and installation, air and slump tested concrete poured in piers.

Esmer & Associates Inc. – Boomer, WV, Performed lab tests on soil, used planimetry to determine slurry pond life, fill areas, cut areas, etc., used computer to calculate lab results, aided on coal impoundments to do various monitoring tests, collected data for coal impoundment monitoring.

## EDUCATION

### **Bachelor of Science**

Civil Engineering Technology  
West Virginia University Tech Fall 2005

### **Associate of Science**

Civil Engineering Technology  
West Virginia University Tech Spring 2004

## CERTIFICATIONS

Dam Inspector  
Underground Coal Miner  
Surface Coal Miner  
MSHA Certified Limited Instructor  
MSHA Certified Gravimetric Dust Sampling  
MSHA Certified Gravimetric Dust Calibration & Maintenance  
Heartsaver First Aid, CPR & AED Certified  
Safe Land USA PEC Safety

## PROFESSIONAL AFFILIATIONS

Contractors Association of West Virginia  
West Virginia Coal Association  
Friends of Coal Association



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**Vincent W. Scriptunas II**  
**Senior Engineer**  
**New River Engineering, Inc.**  
**S & S Engineers, Inc.**  
**Green and Associates, LLC**

Mr. Scriptunas is a 1981 graduate of West Virginia University with a B.S. in Mining Engineering with over 30 years of experience in the mining and consulting fields. Vince specializes in surface and underground mine planning and design, reclamation and environmental permitting.

New River Engineering, Inc. - Shrewsbury, WV, Prepare surface mine permits as required by West Virginia state regulations.

Prepare surface mine NPDES permits as required by West Virginia state regulations. Evaluate mining reserves. Provide technical assistance to clients for facilitation and implementation of more effective environmental reclamation and drainage control systems.

Horizon Natural Resources-Ashland, KY, Supervised reclamation and mining including planning of daily activity. Evaluated reclamation liability of active and abandoned permits. Responsible for insuring environmental compliance and initiating subsequent permit revisions as required. Managed the final active mining of the Sycamore South Mountaintop Mine with no lost time accidents. Prepared monthly and annual mine plans and schedules for mountain top removal operation with annual production of 1.0 million tons.

Pittston Coal Company-Lebanon, VA, Evaluated reclamation liability of active and inactive surface mines. Implemented reclamation plans for Bandmill and Boardtree Surface Mining Complexes. Prepared surface mine permits (Article 3 and NPDES) including revisions, modifications and renewals for active Pittston West Virginia subsidiaries.

Pittston Coal Company-Lebanon, VA, Prepared monthly, quarterly and annual mine plan and schedules for mountain top/contour removal operation with annual production of 1.0 million tons. Planned, organized, scheduled and monitored construction and special projects (e.g., exploration, utilities, environmental). Acted as liaison between operations and governmental agencies. Responsible for insuring environmental compliance and initiating subsequent permit revisions as required. Maintained and projected coal quality

### **EDUCATION**

#### **Bachelor of Science**

Mining Engineering  
West Virginia University 1981

### **CERTIFICATIONS**

Surface Mine Foreman  
Underground Coal Miner

### **PROFESSIONAL AFFILIATIONS**

Contractors Association of West Virginia  
West Virginia Coal Association  
Friends of Coal Association



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information on seam splits. Advised Division Resident Engineer on survey crew needs and supervised company crew when on job site.

Mountain State Company – Shrewsbury, WV Prepared surface mine permits as required by West Virginia state regulations. Prepared air pollution control permits as required by West Virginia state regulations. Prepared surface mine NPDES permits as required by West Virginia state regulations.

Cyprus Kanawha Corporation-Powellton, WV, Developed a mine forecast and monitored surface mining activity for a mountain top removal operation with annual production of 1.5 million tons. Prepared operations elemental budget for a truck/shovel mining operation. Developed and maintained comprehensive production analysis including yardage moved, blasting data, haulage, productivity and availability. Reviewed royalty payment system which resulted in immediate savings of \$0.5 million and future savings of approximately \$1.0 million. Forecasted highwall miner production and necessary location on a contour surface mine. Reviewed West Virginia property tax appraisal resulting in a reduced tax expense. Directly responsible for supervision and development of the surveyors and technicians.

Hawks Next Mining Company (Subsidiary of Imperial Pacific Investments)-Powellton, WV, Provided planning and operational engineering support for both contour surface and underground mines. Compiled ventilation and roof control plans for underground mines as required by federal and state regulations. Prepared surface mine permits as required by West Virginia state regulations. Evaluated future surface mining reserves.

Hawks Nest Mining Company (Subsidiary of F.H. Prince)- Powellton, WV, Provided planning and operational engineering support for underground mines with continuous and conventional sections. Generated ventilation and roof control plans for underground mine as required by federal and state regulations. Evaluated potential acquisition opportunities and provided final recommendations. Researched mining property ownership and recommended settlement which resulted in a savings of \$130,000.





**D. Matt Shelton**  
**Vice President / Project Manager**  
**S & S Engineers, Inc.**  
**New River Engineering, Inc.**  
**Green and Associates, LLC**

Mr. Shelton began his career at S & S in 2004 working in civil engineering fields such as site development, water supply, wastewater, storm water and drainage. Also has experience in surveying, construction management, record keeping, quantity and payment reviews, inspection and site grading. Having worked with general contractors, subcontractors, community representatives and residents, he has developed solid techniques to move the projects in a professional, cost-effective and timely manner.

Experienced in site grading, surveying, quantity surveys, building layout, water & sewer system design and construction inspection on civil engineering projects.

Experience as Engineering Technician including design of water line extensions, water booster stations, water storage tanks, wastewater pump stations, sewer line extensions, manholes, drainage calculations, and preparation of quantity and cost estimates.

Experience as Survey Technician / Instrument man includes topographic surveys, construction stakeout for water & sewer systems and highways, building layout, cut sheets for sewer systems, GPS surveying for field control work, etc.

## **EDUCATION**

### **Bachelor of Science**

Civil Engineering Technology  
West Virginia University  
May 2005

## **CERTIFICATIONS**

Environmental Site Assessment  
Commercial Real Estate  
December 2016

## **PROFESSIONAL AFFILIATIONS**

Water Environment Federation  
Contractors Association of West Virginia



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**Elijah Laramée, P.E.**  
**Professional Engineer**  
**S & S Engineers, Inc.**

Mr. Laramée has more than seventeen years of civil/ structural design and management experience, including deep foundations, shallow foundations, concrete and steel structures, building enclosures, rigging, drainage, underground utilities, etc. Mr. Laramée is also proficient in several analysis & design, laser scan and 3D design software packages.

**EXPERIENCE**  
**PROFESSIONAL ENGINEER**

Responsible for analysis and design of various types of structures and materials for compliance with building codes and design standards. Design work includes large steel structures, as well as retrofit of steel and concrete structures and foundations.

**LEAD ENGINEER**

Perform design and analysis responsibilities of professional engineer with additional duties of coordinating the civil structural design effort with clients and other design disciplines. Duties include work planning, scheduling, cost control, quality management, design reviews, and construction packaging.

**DEPARTMENT MANAGER**

Responsible for the overall execution and quality of the Civil Structural Department in U.S and India offices. Duties include resource planning, scheduling, technical oversight, development of people, procedural development, auditing, and determination of needs for tools and skills.

**FIELD ENGINEER**

Provide inspection and verification of design in construction and provide solutions to issues encountered in the field. Review of submissions and creation of punch list items.

**EDUCATION**

**Bachelor of Science**  
**Civil Engineering** West Virginia University Institute of Technology May 2003

**CERTIFICATIONS**

- Professional Engineer (WV)
- Professional Engineer (IA)
- Professional Engineer (KY)
- Professional Engineer (MO)
- Professional Engineer (NC)
- Professional Engineer (OH)
- Professional Engineer (PA)
- Professional Engineer (TX)
- Professional Engineer (VA)
- Professional Engineer (SC)
- Professional Engineer (GA)
- Professional Engineer (MI)

**PROFESSIONAL AFFILIATIONS**

- American Society of Civil Engineers
- American Institute of Steel Construction AISC



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**Ashok M. Sanghavi, P.E., DEE, QEP**  
**Senior Engineer / Quality Control Officer**  
**S & S Engineers, Inc.**

Over forty-six years of professional experience in civil engineering fields such as environmental, water supply, wastewater, solid wastes management, drainage, and mining. He has provided planning, design, construction management and technical expert testimony for environmental and general civil engineering projects. He has prepared Phase I environmental site assessments and carried out subsequent Phase II and Phase III remediation work. He has prepared environmental impact statements for state and federal highway projects.

Having worked for the private industry as well as state government, he thoroughly understands both sides. He has extensive knowledge of the state and federal water supply, and wastewater laws and regulations and is also very familiar with federal and state grant and loan programs.

#### **West Virginia State Health Department**

- 1) Acting Chief, Wastewater Division
- 2) District Engineer
- 3) Water Supply Engineer

#### **EDUCATION**

##### **Master of Science**

Civil Engineering  
West Virginia University  
May 1970

Partial Course work for Ph.D.

#### **CERTIFICATIONS**

Professional Engineer (WV)

Diplomate - American Academy of  
Environmental Engineers

Qualified Environmental Professional, IPEP

#### **PROFESSIONAL AFFILIATIONS**

Water Environment Federation  
American Water Works Association  
American Society of Civil Engineers  
West Virginia Rural Water Association  
Contractors Association of West Virginia

#### **AWARDS**

Arthur Sidney Bedell Award,  
Water Environment Federation, 1993



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**Michael Noel, NCARB**  
**Registered Architect**  
**Michael Noel Architect, LLC**

Mr. Noel has been Principal of Michael Noel Architect for the past four years. Before establishing his firm he was Senior Principal with Panich, Noel and Associates for 32 years.

**EXPERIENCE**

**REGISTERED ARCHITECT**

Responsible for day to day design and management of various construction types for the firm.

**CONSTRUCTION DOCUMENTS**

As the Partner in charge Mr. Noel has been partner to oversee more than \$300 million dollars of construction documents varying from hotels, industrial buildings, churches, prisons and higher and lower education.

**PROJECTS**

- Hotels: MorganCity-Holiday Inn - \$20,000,000  
Portsmouth- Holiday Inn Remodel - \$6,000,000
- Industrial: RXQ Compounding - \$5,000,000  
Logan Goodyear Plant - \$3,000,000
- Prisons: Septa Correctional Facility - \$4,500,000  
HVCRC Youth Prison and School - \$3,000,000
- Education: Athens City Schools Renovations, Roof Replacement, Additions, Bus Garage and Athlete Facilities Buildings - \$15,000,000.  
Trimble Schools Building Additions and Remodeling - \$400,000. Alexander Schools Renovations and Maintenance Facility - \$500,000. HVCRC Gymnasium and Classroom Design - \$3,000,000.

**EDUCATION**

**Bachelor of Arts in Architecture**

Ohio University  
May 1974

**Register NCARB**

1982

**Certifications**

Registered (WV) Professional  
Registered (OH) Professional  
Registered (IL) Professional  
Registered (FL) Professional

**Civic Affiliations**

Athens Rotary Club  
Boy Scouts of America  
Athletes in Action



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**Randy B. Crace, P.S.**  
**Senior Surveyor**  
**S & S Engineers, Inc.**

Mr. Crace began his career at S & S in 1983 working on a variety of surveying and engineering projects. Areas of concentration in boundary surveys, mapping, topography, subdivisions, annexations, right of ways, subdivision development, construction stakeout, aerial mapping controls, GPS-RTK survey control networks, oil and gas well locations, surface and underground mining permits, construction stakeout, hydrology, erosion and sediment control plans, storm water retention systems, site grading plans, parking lot layout, WVDOH driveway permits, Cad software programs, Geographic Information Systems, Phase I - ASTM environmental site assessment and expert witness testimony in the surveying field.

**U.S. Army - SP4**  
**Honorable Discharge - 1974**

**EDUCATION**

**Bachelor of Science**

Industrial Technology  
West Virginia State College, Institute  
December 1989

Master of Science Environmental Studies  
MUCGS, Institute of WV Partial Course Work

**CERTIFICATIONS**

Environmental Site Assessment  
Commercial Real Estate Certification  
ASTM E-1527 & E-1528  
October 2001

ASTM E 1527-05 Phase I and USEPA AAI  
October 2006

ACSM Surveying Instrumentation and  
Coordinate Computation Certificate, 1978

Center College, Charleston, WV  
Technical Degree, Drafting – 1970

Professional Surveyor (WV)  
Professional Surveyor (KY)  
Professional Surveyor (OH)

**PROFESSIONAL AFFILIATIONS**

West Virginia Association of Land Surveyors  
American Congress on Surveying & Mapping  
National Society of Professional Surveyors  
American Institute of Architects, WV



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**John Michael "Mike" Green, P.S.**  
**Senior Surveyor**  
**Green and Associates, LLC**

Ohio surveyor of record specializing in oil and gas permitting, construction layout, commercial and residential surveys.

Leads surveying, engineering, and construction layout as well as services for residential, commercial, industrial and the oil and gas industries. Surveying included oil and gas permit plats, declaration of pooling and unitization, water transfers and pad layout and as builds, all surveys and construction layout for all Wheeling Pittsburgh Steel plants and layout of the Samis Power Plant major upgrades. Engineering services included design and construction of pump stations, water plants, large water transmissions lines, residential water and sewage design in and for Belmont County and building designs.

Mine Engineer for The North American Coal Corporation - Powhatan Point, OH, (12 years), in charge of all surveying services for Numbers 1, 3, 4 and 5 mines. Supervised construction projects for all mines. Prepared and submitted underground mining plans to the Mine Safety and Health Department, State of Ohio

## **EDUCATION**

### **Associate of Science**

Surveying and Engineering Technology  
Lorain College  
June 1970

### **Additional courses**

Ohio University Belmont  
1971 –1972

## **CERTIFICATIONS**

Professional Surveyor (OH)  
Underground Mine Foreman



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New River Engineering, Inc.



## CLIENT REFERENCES

Mr. Jeremy Lewis, General Manager  
Nitro Regional Wastewater Utility (City of Nitro)  
P.O. Box 607  
Nitro, WV 25143  
(304) 755-3669

Hon. Joetta Hatfield, Mayor  
Town of Fort Gay  
P.O. Box 336  
Fort Gay, WV 25514  
(304) 648-5246

Mr. John Rubin, Chairman  
Kanawha Public Service District  
P.O. Box 8  
Cabin Creek, WV 25035  
(304) 595-2203

Mr. John Elliot, President / Owner  
American Medical Facilities Management  
240 Capitol Street, Suite 500  
Charleston, WV 25301  
(304) 344-1623

Mr. Curtis Keller, General Manager  
Berkeley County Public Service Sewer District  
P.O. Box 944  
Martinsburg, WV 25402  
(304) 263-8344

Hon. Randy Barrett, Mayor  
City of Winfield  
P.O. Box 596  
Winfield, WV 25213  
(304) 586-2122

Hon. Bill Rice, Mayor  
City of Sistersville  
200 Diamond Street  
Sistersville, WV 26175  
(304) 652-6361



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New River Engineering, Inc.





## CLIENT REFERENCES

Mr. Matt Hildebrand,  
Trans-Canada/TC Energy  
700 MacCorkle Avenue, SE  
Charleston, WV 25314-1515  
(304) 357-2000  
(304) 894-2657

Mr. John McNew  
United Coal Company  
109 Appalachian Dr.  
Beckley, WV 25801  
(304) 255-9030  
(304) 550-2324

Mr. Will Harless  
Montage Resources Company  
125 Putnam Street  
Marietta, OH  
(740) 374-2940  
(304) 993-5510

Mr. Christopher Matkins, Senior Engineer  
West Virginia Dept. of  
Environmental Protection  
1159 Nick Rahall Greenway  
Fayetteville, WV 25840  
(304) 574-4465

Mr. Eric Bess  
Mott MacDonald  
201 Pennsylvania S #400  
Charleston, WV 25302  
(304) 356-3010

Mr. Andrew Jordon  
Pritchard Mining  
P.O. Box 3311  
Charleston, WV 25333  
(304) 389-5715

Mr. G.R. Carr  
G.R. Carr Excavation Inc.  
297 Nathan Rd.  
Pool, WV 26684  
(304) 619-8903

Mr. Edward Brown  
Blackhawk Mining, LLC  
3228 Summit Square Place,  
Lexington, KY  
(304) 590-2487

Mr. Jamie Hake  
Allegheny Contracting, LLV  
13374 Boot Jack Road  
Ridgway, PA 15853  
(814) 772-2525

Mr. Brian Worley  
Contoura Energy, LLC  
208 Business St.  
Beckley, WV 25801  
(304) 929-6626

Mr. Larry Cook  
Black Warrior Minerals  
Charleston, WV 25304  
(304) 376-0513



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## SAFETY

In today's ever-changing workplaces, we place safety as an utmost necessity for all employees. We are fully committed to provide our employees with knowledge and training to complete all tasks in a professional manner and to prepare them with a safe and hazard free work environment.



**VERIFORCE**<sup>™</sup>  
INTEGRATED COMPLIANCE SOLUTIONS



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OUR TEAMING PARTNERS



Tempo Construction, LLC



Larson Design Group®

Larson Design Group



American Geotech, Inc.



Carr Excavating



**ALLSTAR ECOLOGY**  
Natural Resource Specialists

Allstar Ecology



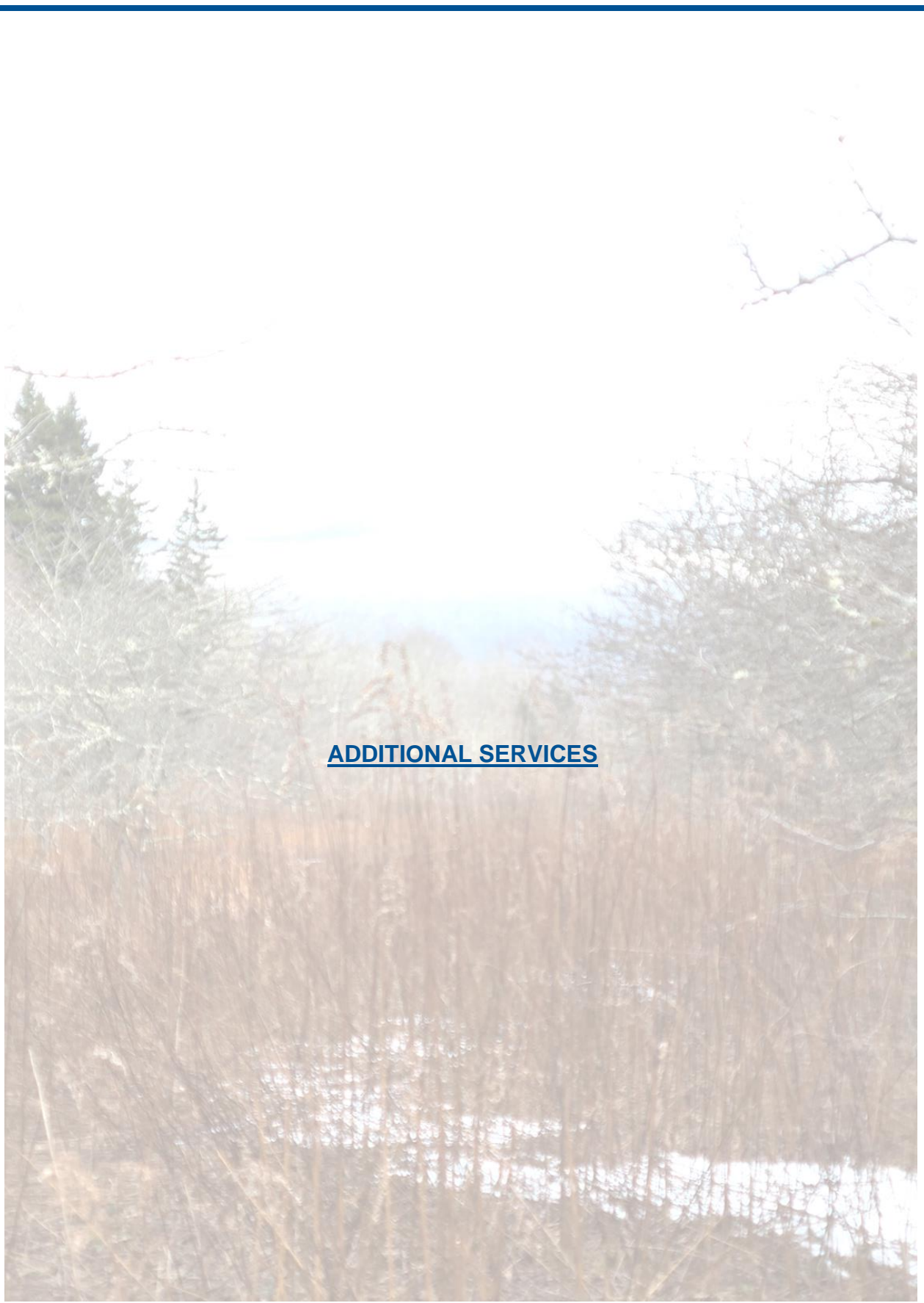
Airport Design Consultants, Inc.



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**ADDITIONAL SERVICES**



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# Water Supply, Treatment, Storage, and Distribution Systems

With over forty years of experience, we are your one stop shop for water supply, treatment, storage, and distribution systems. We implement our four-step process to each project to develop a better understanding of our clients needs and expectations: 1. Preliminary Engineering Report; 2. Design Phase; 3. Bidding Phase; 4. Construction Administration. We are “hands on” during all phases to ensure our clients obtain what they want in every project.

As a locally owned “small family” consulting firm, our clients get more for their money and receive more one-on-one time with our employees, which yields a more pleasurable experience. We excel in helping our clients ascertain funding from various governmental agencies to assist in the financing of the project.



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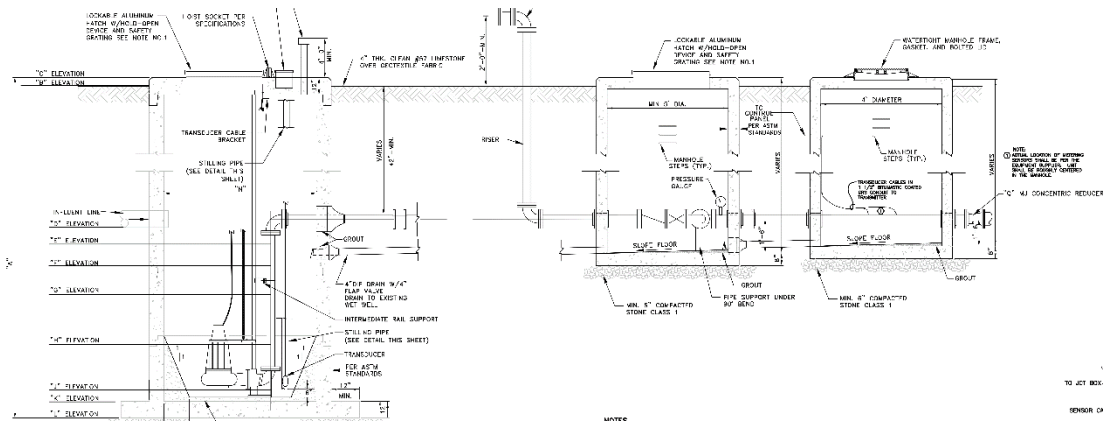
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# Wastewater Collection & Treatment Systems / Industrial and Hazardous Waste Treatment Systems

We recognize the importance and understands the hurdles that our clients must maneuver to offer wastewater service to their customers. We have a proven track record with a vast knowledge of local conditions and an excellent reputation with all regulatory, funding, permitting, and enforcement agencies. Our crew, from CAD Techs to the President, is included in all phases of the project. We have the knowledge and capacity to carry out the workload in a timely manner.

We have a full understanding of wastewater systems from small treatment facilities to municipalities, all the way to industrial wastewater systems. We are thoroughly knowledgeable in obtaining federal, state, and local funding, and are available to you 24/7. We will see your projects from conception to completion.



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# Construction Management and Civil Site Design

We have been providing construction engineering solutions to our clients, including towns and municipalities for a combined total of over 60 years. We have established ourselves as one of the leading consulting firms in the area, and our experienced staff is committed and dedicated to your project from the initial site design and bid package development to inspections and certification.

We also offer Civil Site Design services including sub-division layouts, commercial development and design, HCA project areas, well pads, impoundments, street paving, drainage control, solid waste landfill, and impoundment design. We know and understand the value and importance of properly designed sites that offer the most cost effective and beneficial for our clients. Construction Management and Civil Site Design services include, but are not limited to the following:

- 3D Site Design
- Haulage & Access Road Design
- Excess Spoil Disposal Site Design
- Drainage Design and Runoff Calculations
- Solid Wastewater Management and Land Fill Design
  - Subdivision Design and Permit Applications
  - Site Development Plans
  - Pre, During, & Post Construction Surveying
  - HECRAS Modeling
- Stability analysis
- Site inspections / Project Management
- Certifications
- Cost Estimates
- Subdivision Design
- Street Paving Design and Drainage Control
- Construction Management
- Earth work quantity Estimates
- Construction Staking



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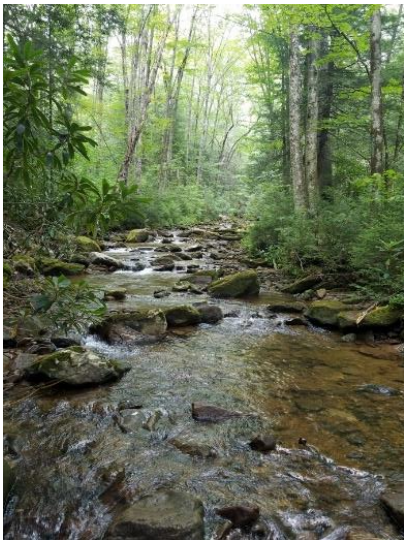
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# Environmental Permitting

Environmental permitting has become a complex and confusing landscape. We have an efficient and thorough team of environmental consultants making sure permitting, regulatory compliance, construction monitoring, and biological surveying are done with the utmost quality and cost effectiveness. This will save your project time and money from the start and avoid costly delays in the future. Compliance with Clean Air and Water Acts, NEPA, and other state and federal requirements is invaluable to every project. Our attention to detail and practical solutions to complex issues are second to none. Our environmental permitting team will make sure once your project is off the ground, it stays there! Environmental Permitting services include but are not limited to the following:

- Storm Water Permitting, Design, and Management
- Water Quality Monitoring
- Flood Plan Determination and Flood Elevation Certificates
- Groundwater Protection Plans
- Stream & Wetland Delineation
- Spill Prevention Control & Countermeasures Plan (SPCC)
- Article 3 Mining Permits
- Article 11 NPDES Permits
- West Virginia 401 Certification Permitting
- Waste Water Permitting, Design, & Management
- Clean water Act Section 402 Permitting (NPDES Permit)
- United States Army Corps of Engineers 404 Permitting
- Air Quality Permitting
- Best Management Practices (BMP) Planning



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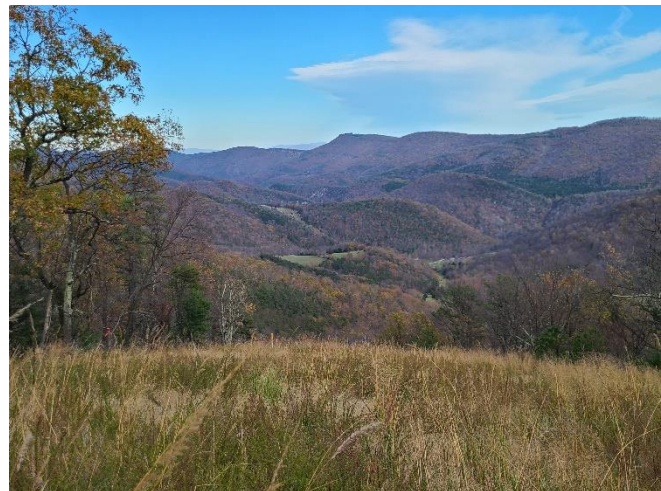
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# Environmental Permitting Services (Cont.)

- Ohio State Historic Preservation Office (SHPO)
- National Environmental Policy Act (NEPA)
- US Environmental Protection Agency (EPA)
- US Department of Justice (DOJ)
- Stormwater NPDES Permit Services
- National Conservation Planning Partnership (NRCS) & Forest Service
- United States Department of Agriculture (USDA) – Rural Development
- West Virginia Public Lands
- WV Department of Natural Resources (DNR)
- US Fish & Wildlife
- HECRAS Modeling
- WV Culture & History
- Ohio Department of Natural Resources (DNR)
- Ohio environmental Protection Agency (DNR)
- Ohio Environmental Protection Agency (EPA)
- Ohio Public Works Commission (OPWC)
- Ohio Department of Commerce/Division of Industrial Compliance
- Virginia Department of Environmental Quality (DEQ)
- Federal Aviation Administration (FAA)
- West Virginia IJDC
- West Virginia Water Development Authority
- EPA & WV DEP Compliance
- Environmental Site Assessment
- WV DEP & United States Army Corps of Engineers (USACE) Permit Services
- Local Agency Building/Construction



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# Surveying

We have established ourselves as one of the area's leading surveying firms with our 40+ years of experience in property, boundary, and topographic mapping. Our staff is skilled in courthouse research, finding property evidence, providing quality property surveys, and construction stake-outs.

Additionally, we offer aerial mapping utilizing drone surveys. Our aerial mapping has been proved to be invaluable for construction progress mapping, well pad progression, subdivision layouts, and civil site designs. Surveying services include, but are not limited to the following:

- Property Abstract & Research
- Boundary Surveys
- Survey Plats
- Subdivision Design & Layout
- Construction Surveying & Stakeout
- Underground Mining Surveying
- Right-of-Way & Land Acquisition
- GPS Services
- Aerial Mapping / Control
- Drone Flight & Surveying
- Topographical Surveys
- ALTA / ACSM Land Title Surveys
- Unit Surveys
- Surface Mining Surveying
- Computer Mapping
- GIS Services



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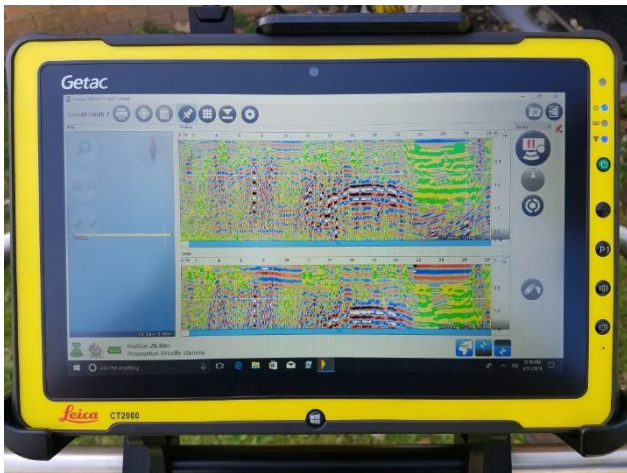
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# Subsurface Utility Survey

We use some of the most advanced technology in Ground Penetrating Radar (GPR), pipe and cable locators, and smoke testing machines to accurately survey, map and inspect subsurface utilities. These services have been extensively used by our clients in the construction, oil, and gas industries, as well as public service districts. Subsurface Utility Survey services include, but are not limited to the following:

- Pipe and Cable Location
- Sewer Line Smoke Testing
- Ground Penetrating Radar (GPR)
- Internal Video Pipe Inspection



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# Geotechnical Engineering

We have professional engineers and engineering technicians with extensive geotechnical engineering experience. We specialize in compaction testing, foundation design, slope failure, and embankment design. We put the focus on identifying the needs of clients and providing cost-effective solutions with real results. Geotechnical Engineering services include, but are not limited to the following:

- Drilling Oversight, Management and Inspection
- Slope failure Remediation
- Slope Stability Analysis
- Gabion Basket Wall Design
- Compaction Testing
- Foundation Design
- Embankment Design
- Drainage Analysis
- Soldier Pile Wall Design



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# Funding Assistance

We provide assistance for our clients in the preparation of grant/loan funding applications. We will represent our clients and coordinate with the various funding agencies to obtain a favorable funding package. Once the funding has been secured, we will then begin to develop detailed engineering drawings and specifications for the project. Funding Sources can include, but are not limited to the following:

- West Virginia Infrastructure and Jobs Development Council (WV IJDC)
- West Virginia Water Development Authority (WV WDA)
- West Virginia Bureau of Public Health – Drinking Water Treatment Revolving Fund (WV BPH-DWTRF)
- West Virginia Department of Environmental Protection – Clean Water State Revolving Fund (WV DEP-CWSRF)
- Private Bank Funding
- Appalachian Regional Commission (ARC)
- United States Department of Agriculture Development Loans (USDA-RD)
- Housing and Urban Development – Community Development Block Grant (HUD-CDBG)
- Ohio Environmental Protection Agency (Ohio EPA)
- Ohio Rural Community Assistance Program (Ohio RCAP) – Funding Assistance
- United States Army Corps of Engineers (USACOE)



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# Technical Expert Testimony

With over forty years of professional engineering experience, we are more than capable of providing expert witness testimony to our clients should a need arise. We have multiple registered professional engineers in various disciplines, and these professionals are licensed throughout the United States. We are more than willing and ready in an utmost resolute manner to defend our clients and ensure that their interests are represented in the courtroom.



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# Fiberoptic Broadband Services

We team with Mountain State Fiber and Alpha Technologies company which is a registered WV CLEC and was founded in 2000 specializing in Wide Area and Local Area Networks. Mountain State Fiber and Alpha Technologies is headquartered in Hurricane, WV.

Working with a full-service fiber optic firm, S & S Engineers, Inc. (S & S) / New River Engineering Inc. (NREI) and Mountain State Fiber can provide a whole host of services to our clients including, but not limited to the following:

- Build Specifications Based on Network
- PONs
- Metro Ethernet
- Support for Tier 1-3 Helpdesk—Technical questions, Network Outages, Internet Engineering and Routing
- Regulatory—Federal: FDOF, USAC, Erate, USDA; State: CLEC, PSC
- Complete understanding of Pole Attachment Process

| Resources   | Security Audits   | Support   | Regulatory   |
|---|---|---|--|
| <ul style="list-style-type: none"> <li>• Professional Engineers</li> <li>• Professional Surveyors</li> <li>• Network Engineers</li> <li>• Build Specifications based on network               <ul style="list-style-type: none"> <li>• PONs</li> <li>• Metro Ethernet</li> </ul> </li> <li>• Ground Penetrating Radar</li> <li>• GIS Analyst</li> </ul> | <ul style="list-style-type: none"> <li>• HIPPA - Healthcare</li> <li>• SOC I and II</li> <li>• PCI - Credit Cards</li> <li>• FISMA</li> </ul> | <ul style="list-style-type: none"> <li>• Tier 1 Helpdesk – Address basic customer technical questions</li> <li>• Tier 2 Helpdesk – Network Outages and support</li> <li>• Tier 3 Helpdesk – Internet engineering and routing</li> </ul> | <ul style="list-style-type: none"> <li>• Federal               <ul style="list-style-type: none"> <li>• RDOF</li> <li>• USAC</li> <li>• Erate</li> <li>• USDA</li> </ul> </li> <li>• State               <ul style="list-style-type: none"> <li>• CLEC</li> </ul> </li> <li>• Interaction with PSC</li> <li>• Complete understanding of Pole Attachment Processes</li> </ul> |

mountain state  
fiber



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# Structural Engineering

We offer a full range of structural engineering services to help meet the needs of our clients. In addition to professional training, our structural capabilities are bolstered by a depth and breadth of experience developed through solving unique and complex engineering challenges. We have experience with projects in the private, public, commercial and industrial sectors. Whether designing new structures, retrofitting existing structures, addressing overstressed conditions, or assessing structural integrity, our clients can rest assured that we are capable of meeting their specific needs.

## Structural Engineering Services

- Structural Analysis
- Steel Structures and Building Enclosures
- Modular Design
- Pilings and Foundations
- Concrete Containment Structures
- Retrofit of Existing Overstressed Structures
- Building Permits and Code Analysis
- Bridge Cranes, Monorails, Jibs, etc.
- Truck/Rail Unloading Stations
- Lifting Beams and Rigging
- Industrial Architectural Design
- Structural Inspections and Assessments



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