



E.L. ROBINSON ENGINEERING

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WV PURCHASING
DIVISION

STATEMENT OF QUALIFICATIONS

SEPTEMBER 12, 2018



WEST VIRGINIA
DEPARTMENT OF
ENVIRONMENTAL
PROTECTION-AML
LAKE (BELL)
PORTALS

5088 Washington Street, West
Charleston, WV 25313
800.856.6485

ESTABLISHED EXPERIENCE. PROVEN PERFORMANCE.

elrbinsonengineering.com



September 12, 2018

West Virginia Department of Environmental Protection
Office of AML
c/o Brittany E. Ingraham
Department of Administration, Purchasing Division
2019 Washington Street, East
Charleston, WV 25305

Dear Ms. Ingraham,

E.L. Robinson Engineering (ELR) is pleased to have the opportunity to submit our Statement of Qualifications to provide the West Virginia Department of Environmental Protection AML with design services for the Lake (Bell) Portals Project.

ELR has completed plans and specifications for numerous reclamation projects for WVDEP/AML for over 20 years in addition to several projects with ODNR and Maryland AML. We have included descriptions of our project experience later in this proposal. Please note that all staff that completed tasks on these projects are still with ELR.

The ELR staff has combined experience in the design of more than 254 AML projects.

We are able to assemble multiple design teams with our current staff. The Charleston office has:

- A. Fourteen (14) registered professional engineers (civil or mining), one (1) geologist, three (3) landscape architects, six (6) engineers in training as well as several CADD technicians that may be used on these teams.
- B. ELR Corporate experience in designing one hundred thirty-five (135) abandoned mine land remediation projects. Personal experience on approximately two hundred fifty-four (254) AML projects. This number does not include surveying/mapping/drilling projects.

E.L. Robinson Engineering has grown from 13 employees in 1996 to over 150 employees today. Throughout this growth period, we have continued to meet project deadlines while providing a high quality engineering product.

Our office location in Charleston is centrally and conveniently located in respect to the WVDEP offices and the referenced project. In addition, we have a support office located in Bridgeport, WV.

We at E.L. Robinson Engineering look forward to serving your agency under this contract. If you have any questions or need clarification, please feel free to contact me at (304) 776-7473.

Sincerely,

Eric J. Coberly, P.E.
Project Manager

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EXECUTIVE SUMMARY



For more than 20 years, E.L. Robinson Engineering (ELR) has been a prime and preferred engineering and surveying consultant to the WV Division of Environmental Protection, Office of Abandoned Mine Lands and Reclamation (WVDEP/AML) program. We have provided this Executive Summary to directly respond to the Expression of Interest and provide ease for the evaluators to score this proposal.

Understanding of Project Requirements

E.L. Robinson Engineering fully understands the requirements for the Lake (Bells) Portals Project and is committed to giving the WVDEP/Office of Abandoned Mine Lands and Reclamation the time and attention that is necessary for this project. Professional services may include: civil; structural; geological; surveying and mapping; preparation of all necessary permit applications; construction monitoring and other services that may be required.

Firm's Capacity

E.L. Robinson Engineering approaches all engineering projects with the same attention to detail and fiscal responsibility to ensure the client receives the most cost effective plan, design and operationally functional project possible. Our approach truly makes the WVDEP/AML engineering staff an integral part in the design of the project. We want to make sure that the review staff is comfortable with the design concept before the project is submitted for review. During this process, we evaluate all technical alternatives to determine the most cost effective plan and technically acceptable project for the WVDEP/AML staff.

ELR has more than 150 professionals on staff including many individuals experienced in mine reclamation. This capacity allows for the development of innovative and alternative methods to address complex issues involved in reclamation projects of this nature. Our QA/QC process also allows for a different perspective to be brought to the project before submission to the client and for review. ELR has the capacity to take this project from conception to completion with a wide variety of experienced professionals with in-house staff for planning, design, permitting, bidding and construction monitoring.

Our company will work diligently to deliver the highest quality, cost effective solution that the WVDEP/AML deserves. We have extensive knowledge in mine reclamation and are currently working with the WVDEP/AML on similar projects. We have an excellent understanding of the requirements for this type of project and a good working relationship with NEPA permitting and regulatory agencies.

PROJECT APPROACH



E.L. Robinson is familiar with the Lake (Bells) Portals project area and the desired design services for which you are seeking. We understand that the work to be provided to the WVDEP/AML for this reclamation project shall consist of:

- Control drainage (installation of drainage channels, underdrains and/or other controls to convey water off-site)
- Seal ten (10) portals
- Clearing and grubbing of affected areas
- Regrading
- Revegetation of all disturbed areas

We are anxious to become an extension of your staff by providing prompt planning, design and construction monitoring services as needed. We interact with the various review and permitting agencies. As you will see from our resumes, we are uniquely diversified to provide quality engineering services to your agency.

E.L. Robinson will work closely with the WVDEP/AML and all regulatory and permitting agencies to complete this project. We feel that our extensive knowledge and experience in the planning and design of similar projects are significant assets in developing a cost-effective solution to your reclamation project.

The scope of services will include but are not limited to:

- Conceptual engineering and identification of permitting requirements
- Surveying and contour mapping
- Geotechnical services
- Design
- Preparation of plans and specifications
- Participation in the pre-bid meeting
- Participation in the pre-construction meeting
- Preparation of all necessary permit applications
- Construction monitoring if requested

PROJECT TEAM



Mr. Eric Coberly, P.E., will serve as Project Manager. Mr. Coberly has over 30 years of experience in the field of engineering. He was previously employed by the West Virginia Department of Environmental Protection Abandoned Mine Lands Division as Chief where his responsibilities included managing and directing the operations for the entire department. With his past experience, Mr. Coberly offers invaluable experience and unparalleled expertise in mine reclamation.



Mr. Timothy Cart, P.E., will be assigned as a Project Engineer. Mr. Cart has performed over 100 Abandoned Mine Land Reclamations projects throughout Appalachia. These projects have involved draining flooded mine workings, support of ground experiencing or subject to Mine subsidence and the stabilization of landslides. He has also designed numerous reclamation plans for refuse sites and stream restoration projects.



Mr. Mark McGettigan, P.E., will be assigned as a Project Engineer. Mr. McGettigan has 18 years of experience as a project engineer and manager including many project designs and waterline feasibility studies for the WVDEP.



Mr. Rich Watts, P.G., will serve as Project Geologist. Mr. Watts' responsibilities will include assisting in the design and quality control. Mr. Watts has 40 years of experience in providing consulting services as a senior geologist. He has also served as project manager on numerous reclamation projects.



Mr. J.D. Kinder, P.E., will be assigned as Geotechnical Engineer. He has over 8 years of experience in many areas of civil engineering including roadway design projects, site development projects, geotechnical investigations, natural gas projects and retain structure design. Additionally, Mr. Kinder has experience in performing slope stability analysis for various roadway fills and bridges.



Mr. John Kelly, will serve as a Project Designer. He has performed this role for numerous prior and current mine reclamation projects in his 20 years with ELR.



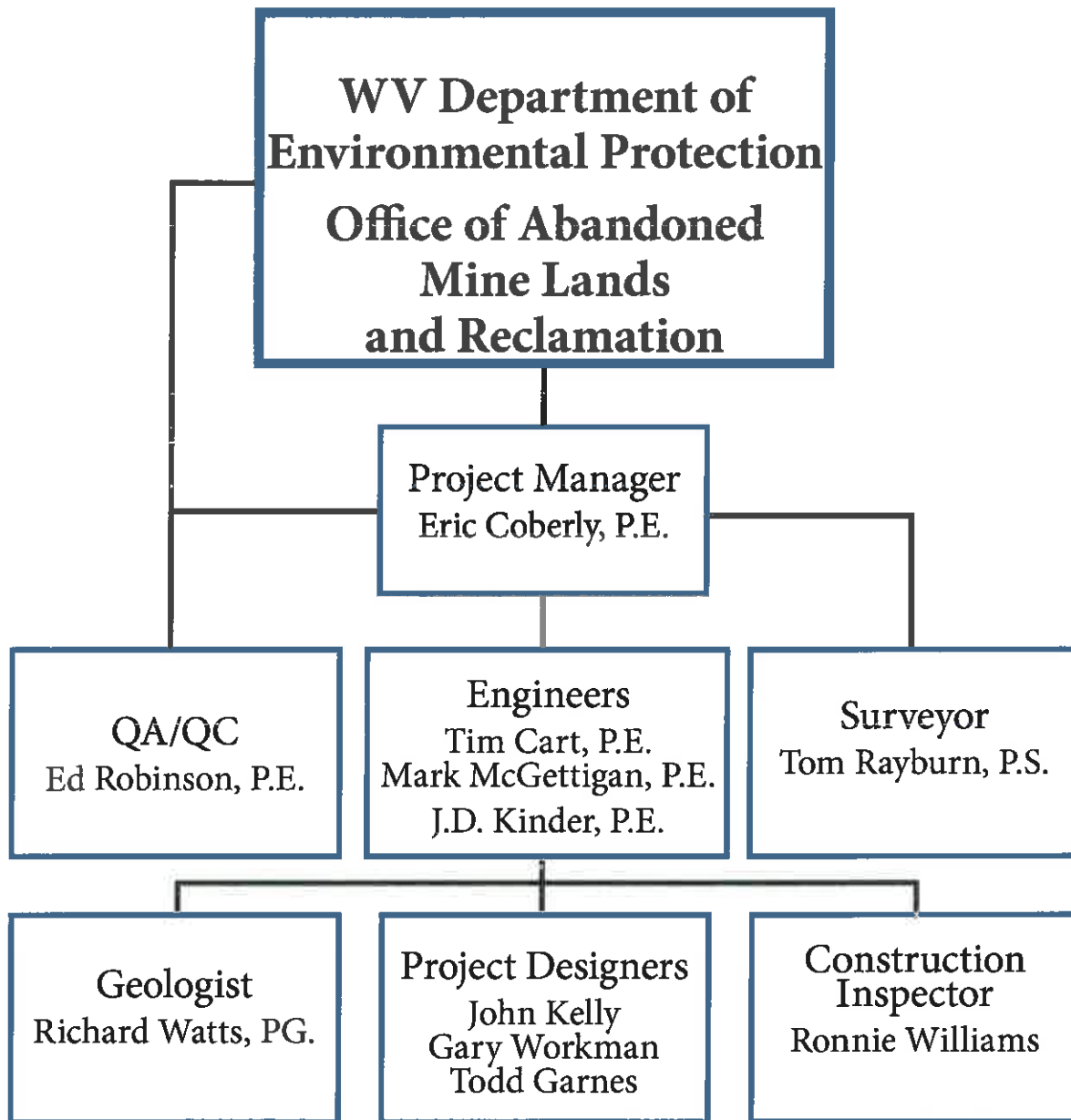
Mr. Todd Garnes, will serve as a Project Designer. He has over 15 years of experience as a civil draftsman and designer. He is proficient in numerous drafting and mapping software platforms. His proficiency spans multiple areas including mine site reclamation, waterline planning and design, sanitary sewer planning and design.



Mr. J. Tom Rayburn, P.S., will be assigned as Chief Surveyor. Our team of surveyors provide the latest in technology and experience in surveying and mapping.

Mr. Ronnie Williams, will be assigned to oversee construction monitoring. ELR maintains a permanent and highly qualified construction inspection staff, who exhibit a high level of capability to oversee the construction of your project.

In addition to your primary project team, other members of our organization may be called upon from time to time to provide their expertise and assistance to ensure this important project is completed on time and on budget.



CAPABILITIES/EXPERIENCE



Over the past 40 years, E.L. Robinson Engineering has focused its efforts on delivering quality projects to our clients and building strong relationships based on trust and partnership. We believe building lasting relationships with our clients is key to delivering exceptional service for many years to come.

E.L. Robinson provides WVDEP/AML with the capabilities, expertise and resources of one of the top-notch civil engineering firms in the region. Our offices are staffed with professionals experienced in AML reclamation mapping, permitting, design and construction monitoring. Further, we are very familiar with the requirements of the permitting and regulatory agencies which expedites the completion of projects.

As part of our commitment to quality, E.L. Robinson realizes that every project, client and location is very different. As a result, we look at each project independently to determine the most feasible and functional solution. Specifically, we look at ways we can maximize the project benefit and minimize the construction cost while at the same time completing projects on time and within budget. We have demonstrated abilities in developing practical and cost-effective reclamation and improvement projects and are dedicated to meeting project schedules and budgets. Such demonstrations can be seen in our prior work on our most recent reclamation projects including:

- Pendleton Creek Highwall
- Maryland Shallmar Landslide Emergency
- Maryland Barton Mine Pool
- Maryland Scenic Railroad Landslide
- Squires Creek (Moats) Portal and Refuse
- Red Warrior Gob & Slide
- Glen Alum Complex
- West Columbia B
- Milam Ridge Refuse Pile
- Carson One Special Reclamation Project
- Preston Energy/Rockville/Viking Coal Rec
- North Matewan (Akers) Landslide
- Branchland (Blankenship) Landslide
- Coburns Creek Landslide
- McGraws Vertical Opening
- New Cumberland Mine Blowout
- Fairview Mine Shaft
- Whitehall Mine Fire
- Sauls Run Landslide
- Missouri Fork Landslide
- Worthington (Hess) Landslide
- Copen Road Landslide
- Lynch Run Mine Blowout
- Dans Branch (Dillon) Landslide
- Marsh Run Portals
- Donnie Thorn Highwall
- Vickers Branch (Butcher) Drainage
- Morgan #46 Highwall
- Sugarcamp Run Burning Refuse Phase II
- Glen Rogers Emergency
- Abney Ruse Piles
- Cartright Branch Refuse Pile
- Thorpe Refuse Pile
- Shinnston Lumberport Subsidence

**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
AML CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE**

Attachment "B"

PROJECT NAME Lake (Bell) Portals DEP1900000003	DATE (DAY, MONTH, YEAR) September 10, 2018	FEIN 55-0594633
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1. FIRM NAME E.L. Robinson Engineering Co.	2. HOME OFFICE BUSINESS ADDRESS 5088 Washington Street, West Charleston, WV 25313	3. FORMER FIRM NAME
---	---	---------------------

4. HOME OFFICE TELEPHONE 304-776-7473	5. ESTABLISHED (YEAR) 1978	6. TYPE OWNERSHIP Individual x Corporation Partnership Joint-Venture	6a. WV REGISTERED DBE (Disadvantaged Business Enterprise) YES x NO
--	-------------------------------	--	---

7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. AML DESIGN PERSONNEL EACH OFFICE
5088 Washington Street, West 304-776-7473/Eric Coberly, P.E./54 Staff in Charleston Area
Charleston, WV 25313

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM Ed Robinson, P.E. 304 776-7473 Ext 211	8a. NAME, TITLE, & TELEPHONE NUMBER - OTHER PRINCIPALS
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9. PERSONNEL BY DISCIPLINE

4 ADMINISTRATIVE ARCHITECTS	— ECOLOGISTS	3 LANDSCAPE ARCHITECTS	7 STRUCTURAL ENGINEERS
— BIOLOGIST	— ECONOMISTS	— MECHANICAL ENGINEERS	7 SURVEYORS
6 CADD OPERATORS	— ELECTRICAL ENGINEERS	1 MINING ENGINEERS	— TRAFFIC ENGINEERS
— CHEMICAL ENGINEERS	— ENVIRONMENTALISTS	— PHOTOGRAMMETRISTS	— OTHER
22 CIVIL ENGINEERS	— ESTIMATORS	PLANNERS: URBAN/REGIONAL	
22 CONSTRUCTION INSPECTORS	1 GEOLOGISTS	— SANITARY ENGINEERS	
— DESIGNERS	— HISTORIANS	1 SOILS ENGINEERS	
DRAFTSMEN	— HYDROLOGISTS	— SPECIFICATION WRITERS	74 TOTAL PERSONNEL

TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: 14
***RPEs other than Civil and Mining must provide supporting documentation that qualifies them to supervise and perform this type of work.**

10. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? YES NO X This is not applicable

11. OUTSIDE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "AML Consultant Confidential Qualification Questionnaire" for each if copy is not on file with AML.

NAME AND ADDRESS: Novel Geo – Environmental (NGE) 806 B Street, St. Albans, WV	SPECIALTY: Drilling	WORKED WITH BEFORE <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE <input type="checkbox"/> YES <input type="checkbox"/> NO

12.	A.	Is your firm experienced in Abandoned Mine Lands Remediation/Mine Reclamation Engineering?
	<input checked="" type="checkbox"/>	YES Description and Number of Projects: One hundred twenty one (121) Projects - See Attached Sheet
	<input type="checkbox"/>	NO
	B.	Is your firm experienced in Soil Analysis?
	<input checked="" type="checkbox"/>	YES Description and Number of Projects: Ten (10) Projects Listed - See attached Sheet
	<input type="checkbox"/>	NO
	C.	Is your firm experienced in hydrology and hydraulics?
	<input checked="" type="checkbox"/>	YES Description and Number of Projects: Ten (10) Projects Listed - See attached sheet
	<input type="checkbox"/>	NO
	D.	Does your firm produce its own Aerial Photography and Develop Contour Mapping?
	<input checked="" type="checkbox"/>	YES Description and Number of Projects: > 200 - in Firm History - 65 Recent Projects Listed All ELR WV & OH AML Projects since 2003 have been surveyed with ELR Surveying Staff
	<input type="checkbox"/>	NO
	E.	Is your firm experienced in domestic waterline design? (Include any experience your firm has in evaluation of aquifer degradation as a result of mining.)
	<input checked="" type="checkbox"/>	YES Description and Number of Projects: Ninety-seven (97) Total Twelve (12) Domestic Waterline Experience (AML Related) Thirty-five (35) Evaluation of Aquifer Degradation Fifty (50) Non-AML Domestic Water Lines
	<input type="checkbox"/>	NO
	F.	Is your firm experienced in Acid Mine Drainage Evaluation and Abatement Design?
	<input checked="" type="checkbox"/>	YES Description and Number of Projects: Seven (7) Projects
	<input type="checkbox"/>	NO

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Edward L. Robinson, President	19	30	36

Brief Explanation of Responsibilities

Mr. Robinson worked in the Right of Way Division of the WV Department of Highways for ten years where he reviewed major utility plans. He has extensive experience in property surveys, property title searches, aerial mapping and land acquisition. He has provided quality control on all projects designed by this firm for the past 25 years. Provide and coordinate Quality Control on all design projects.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science 1969 Civil Engineering
 Master of Science 1981 Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers - Past President WV
 American Council of Engineering Companies
 National Society of Professional Engineers

REGISTRATION (Type, Year, State)

1975 Civil Engineering
 Registered in West Virginia and Kentucky
 Professional Licensed Surveyor No. [REDACTED]

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Richard W. Watts, P.G.	30	35	1

Brief Explanation of Responsibilities

Mr. Watts has served as project geologist on more than ninety (90) abandoned mine land projects. Responsibilities include project management, field reconnaissance, drilling coordination, laboratory testing and analysis, stability analysis, specification writing, quantity determinations, cost estimates, pre-bid and pre-construction meetings. Projects included surface and deep mine reclamation, subsidence, AMD treatment and waterline feasibility studies.

EDUCATION (Degree, Year, Specialization)

B.S./1977/Geology
 M.S./1994/Geography

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Geological Society of America
 Association of Engineering Geologists

REGISTRATION (Type, Year, State)

Professional Geologist/1992/Virginia
 Professional Geologist/1993/Kentucky

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
John Kelly II, E.I.	15	15	15

Brief Explanation of Responsibilities
 Mr. Kelly has worked on many AML projects since joining ELR. His responsibilities have included drilling inspection, sampling of coal refuse materials, hydrology, hydraulics design of drainage structures, and development of regrading plans. Estimation of quantities developed estimated cost. Mr. Kelly is proficient with Auto Cadd. Mr. Kelly has performed layout and inspection of core drilling operations for bridge and roadway projects. In addition, he has designed cut slopes for large-scale roadway projects such as the US Route 52 Kermit Bypass in Mingo County, WV and Meadowbrook Road in Harrison County, WV.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1998/WVU

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Engineer Intern, WV

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Timothy B. Cart, P.E.	31	31	24

Brief Explanation of Responsibilities
 Mr. Cart has completed numerous mine reclamation projects under the AML program, including regrading of coal refuse materials, re-establishment of vegetation cover, disposal of acid producing materials, and developing methods for extinguishing burning materials and disposal of old mining structures. Designed passive AMD treatment systems. Conducted Phase I and Phase II Studies to determine if groundwater had been affected by pre-law mining. Mr. Cart has extensive experience in the design and construction management of waterline extension projects. Mr. Cart has recently completed water projects in Mingo; Kanawha; Putnam; and Cabell counties. Mr. Cart has performed geotechnical engineering calculations and designs for settlement analysis of dams and other embankments.

EDUCATION (Degree, Year, Specialization)

Bachelor of Science 1981 Civil Engineering

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Professional Engineer WV OH

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Mark McGettigan, P.E.	10	10	10

Brief Explanation of Responsibilities

Mr. McGettigan has worked on several AML projects since joining our firm. He has developed grading plans, cross sections, estimated and checked quantity calculations. He has also served as a field inspector for several waterline Projects designed by E. L. Robinson Engineering Co. He has been the lead designer on waterlines over the past five years.

Mr. McGettigan also has experience with surveying and equipment including; theodolites, levels, and total stations. He has also performed various concrete and soil tests and is certified on Troxler nuclear density gage.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering Technician/Fairmont State/1999

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Professional Engineer WV

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Randall L. Lackey, P.E.	1	10	1

Brief Explanation of Responsibilities

Mr. Lackey has performed hydraulics and scour for Ripley Town Bridge; Tallman Bridge; Meadowbrook Road Bridge; Simpson Creek Bridge; Kermit Bypass Bridge; Left Hand Fork Bridge; and Blennerhassett Bridge.

Mr. Lackey has also performed calculations for deck drainage; performed girder design and analysis; pier design and analysis; prepared design study reports; type, size and location reports and final plans on many of our Division of Highways projects.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1999

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Professional Engineer WV

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
J. Todd Garnes	7	7	7

Brief Explanation of Responsibilities

Mr. Garnes experience surveying and providing CADD Design for mine reclamation projects and waterline and sewer extrusions. He has provided construction inspection services for landsides and subsidence projects in Ohio. Mr. Garnes has performed numerous water feasibility studies, which involved interviews, water sampling and analysis, mapping, mine research, and development of final reports.

EDUCATION (Degree, Year, Specialization)

A.S. Architectural Design/ 1999
A.S. Computer Aided Drafting and Design/ 1999

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Thomas Rayburn, P.S.		35	

Brief Explanation of Responsibilities

Mr. Rayburn has experience in mine mapping and surveying, formulated short term and long range mining plans for all types of coal mining, designed mine drainage and water supply systems for underground and surface mines, designed mine ventilation plans and systems which include precision pressure quality surveys and computer simulation of ventilation systems.

He has performed slope stability analysis and hydrology calculations, provides computer analysis for mining applications, work with leases and land management as well as reclamation and environmental permits.

By utilizing "state of the art" electronic total stations and/or GPS (Satellite) equipment, he performs control surveys for aerial mapping and collects data and develops GIS for utility mapping.

Mr. Rayburn has also performed surveying and mapping for large scale highway projects.

EDUCATION (Degree, Year, Specialization)

A.S. Mechanical Engineering, WVIT/1970

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Professional Surveyor WV

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Scott LeRose, P.E.	1	1	2

Brief Explanation of Responsibilities

Mr. LeRose is experienced in developing major highway and right of way plans; Bridge Construction Inspections; Core Drilling Operations; Groundwater Sampling/Monitoring; UST Removal/Replacement and Mine Permitting/Reclamation. Specific major highway design and right of way plan development projects include: Meadowbrook Road, a 2 mile design of new four lane highway; US 52(I-73), a 3.5 mile design and ROW plans for a new four lane highway with two major interchanges; design of 2 mile section of Appalachian Corridor H from Davis to Bismark; design of 5.2 mile section of Corridor H from Grant/Hardy County line to Moorefield.

While working on these projects, he has gained experience in major drainage design, site grading design, utility relocation, MOT, signing and pavement stripping. He has performed quantity calculations for pavement, drainage, seeding, pollution control quantities, and other items associated with roadway plans. He is also experienced in the development of ROW plans, including deed plots and legal descriptions.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1997

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Professional Engineer WV

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Ray Tilley, P.E.		5	35

Brief Explanation of Responsibilities

Mr. Tilley has over 30 years experience in water and wastewater design as a Project Manager/Engineer. In addition, Mr. Tilley is a certified Water Plant Operator. Mr. Tilley has successfully completed numerous waterline design projects over his career. His current duties include managing both water and wastewater design projects for ELR.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/WV Tech 1975; M.S. Sanitary Engineering Virginia Tech, 1976

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

Professional Engineer WV

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
James Eric Gwinn, E.I.	10	10	11

Brief Explanation of Responsibilities

Mr. Gwinn has experience in construction layout for waterline projects. He performs calculation and permit requirements. He has worked on the Cabell County Water Project and the raw water intake structure for the Fayette Plateau Regional Water Project. He has performed calculations on various AML project. Mr. Gwinn has designed approach slabs, decks and extensive detailing on several bridge projects.

EDUCATION (Degree, Year, Specialization)

B.S. Civil Engineering/1998/ West Virginia Institute of Technology

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Workman, Gary A., CADD Senior Technician	24	24	4

Brief Explanation of Responsibilities

Mr. Workman is responsible for CADD design on AML projects, as well as geotechnical soil analysis. He Worked on 44 WVDEP/AML projects while employed at Ackenheil, and has worked on 23 AML projects while at E. L. Robinson.

EDUCATION (Degree, Year, Specialization)

Technical School/1987/CADD

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

WVDOH certifications compaction, aggregates and concrete

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

Brief Explanation of Responsibilities

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Coberly, P.E. , Eric J.	31	31	15

Brief Explanation of Responsibilities

Mr. Coberly has performed AML Grant and Emergency project designs since 1984. Projects have included highwall backfill, refuse regarding, portals, mine drainage, subsidence, refuse and mine fire abatement. Mr. Coberly has participated in the design of over 100 such project while working for WVDEP or at ELR. Included in that total is over 30 emergency project designs completed in Ohio and West Virginia. Mr. Coberly has served in various capacities with the WV AML Program including construction and design administrator as well as the Chief of the Office. This involved the review of hundreds of additional projects in the 22 years spent with AML program

EDUCATION (Degree, Year, Specialization)

B.S. Engineering of Mines, 1983
M.S. Engineering of Mines, 1990

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

REGISTRATION (Type, Year, State)
WV [REDACTED]
Ohio [REDACTED]

13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:

Brief Explanation of Responsibilities
 Mr. Haws is our Bridgeport Office Manager. He brings experience with commercial developments, drainage analysis, ADA compliance, storm water collection systems, and all aspects of subdivision planning and design. This includes engineering design and CADD experience. His work has also entailed communication and coordination with local municipalities to ensure seamless integration with existing infrastructure and development. Mr. Haws also draws from his experience in marketing, finance, and business development.

EDUCATION (Degree, Year, Specialization)

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
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13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES **RESPONSIBLE FOR AML PROJECT DESIGN** (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, Middle Int.)	YEARS OF EXPERIENCE		
	YEARS OF AML DESIGN EXPERIENCE:	YEARS OF AML RELATED DESIGN EXPERIENCE:	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
Wendell Williams	0	15	5

Brief Explanation of Responsibilities
 Mr. Williams has been employed with ELR since 1978, having over thirty-seven years of engineering and design experience. Mr. Williams has worked on over one hundred fifty WVDEP-AML project. He has been involved with every aspect of the process including initial site visits, ground control surveys, coordination of aerial photography, map editing and the submittal of final drawings.

EDUCATION (Degree, Year, Specialization)
 A.A.S. CAD Technology, West Virginia State University, 1997
 B.A. Board of Regents, West Virginia Institute of Technology, 1999

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS	REGISTRATION (Type, Year, State)
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14. PROVIDE A LIST OF SOFTWARE AND EQUIPMENT AVAILABLE IN THE PRIMARY OFFICE WHICH WILL BE USED TO COMPLETE AML DESIGN SERVICES

Various computer hardware and software including: Microstation, InRoads, AutoCAD, ELRSoil, Microsoft Office applications, Haested, Water CADD, Culvert Master, Flow Master

Various surveying equipment:

Instruments - Topcon Total Station (6), Trimble Robotic DR200+ (2)

GPS Equipment - Trimble 5700 Receiver (6), Trimble TSCe Controller/Handheld (5)

*all equipment lists have various misc. survey equipment to go along (poles, tape measures, data collectors, etc.)

Riegl LMS - 360 3D Laser Scanner - surface imaging system based upon accurate distance measurement by means of electro-optical range measurement and a two axis scanning mechanism.

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Red Warrior Gob & Slide Kanawha County	WVDEP/AML	Surveying, Drilling and Design	\$250,000	100
Glen Alum Complex Mingo County	WVDEP/AML	Surveying and Design	\$1,600,000	95
Carson One/Glady Upshur County	WVDEP/Special Rec	Surveying, Drilling and Design	\$2,500,000	95
Preston Energy/ Rockville/Viking Coal Special Rec Preston County	WVDEP/Special Rec	Surveying and Design	\$1,500,000	30
Squires Creek (Moats) Portal and Refuse Preston County	WVDEP/AML	Surveying, Drilling and Design	\$750,000	95
Marsh Run Portals Braxton County	WVDEP/AML	Surveying, Mapping and Design	\$967,050	100
Donnie Thorn HW Preston County	WVDEP/AML	Surveying, Mapping and Design	\$1,491,555	100
TOTAL NUMBER OF PROJECTS:		TOTAL ESTIMATED CONSTRUCTION COSTS: \$		

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Vickers Branch Drainage Logan County	WVDEP/AML&R	Surveying, Mapping and Design	\$444,575	100
Morgan HW Preston County	WVDEP/AML&R	Surveying, Mapping and Design	\$1,150,125	95
Sugarcamp Run Burning Refuse Nicholas County	WVDEP/AML&R	Surveying, Mapping and Design	\$6 M	100
Big Ugly Creek Waterline Extension	Logan County PSD 41 Armory Rd. Logan, WV 25601	Design and Construction Management	\$11 M	100
Phase III-A Sanitary Sewer Extension	Logan County PSD 41 Armory Rd. Logan, WV 25601	Design and Construction Management	\$ 9 M	90
Lower Mud River Waterline Extension	Lincoln County PSD 240 Lower Coal River Rd. Alum Creek, WV 25003	Design and Construction Management	\$7.9 M	60
McDowell PSD Jolo Phase V Water McDowell County	McDowell Public Service District	Design and Construction Management	\$ 2.4 M	20
TOTAL NUMBER OF PROJECTS:			TOTAL ESTIMATED CONSTRUCTION COSTS: \$	

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED ENGINEER OF RECORD

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION COST	PERCENT COMPLETE
Martin Luther King Jr. Memorial Bridge Replacement	WV Dept. of Transportation Engineering Division Charleston, WV	Design and Construction Management	\$ 2.5 M	95
Iaeger Regional Sewer Project	McDowell County PSD HC 31 Box 436J Welch, WV	Design and Construction Management	\$ 5 M	50
TOTAL NUMBER OF PROJECTS:			TOTAL ESTIMATED CONSTRUCTION COSTS:	

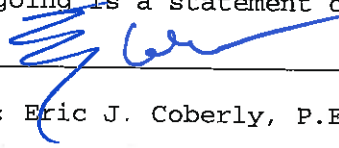
17. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM WAS THE DESIGNATED ENGINEER OF RECORD				
PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST	YEAR	CONSTRUCTED (YES OR NO)
Thorpe Refuse Pile McDowell County	WVDEP-AML Oak Hill, WV Mark Proctor	\$744,240	2011	Yes
Shinnston-Lumberport Subsidence Harrison County, WV	WVDEP-AML Philippi, WV Timothy LeMasters	\$442,000	2011	Yes
Corridor H Davis-Bismark X347-H-64.85 00 Tucker County	WV Dept. of Transportation Engineering Division Charleston, WV 25301 Attn: Gregory Bailey	\$15.5 M	2012	No
WVDEP-Emergency East Bank (Willis) Mine Blowout	WVDEP-AML 601 57 th Street Charleston, WV 25304	\$0.8 M	2009	Yes
Newtown (Kinder) Portals Mingo County	WVDEP-AML 601 57 th Street Charleston, WV 25304 Roger Earle	\$490,410	2010	Yes
Keaton Branch Complex Raleigh County	WVDEP-AML Oak Hill, WV Mark Proctor	\$527,250	2010	Yes
McQuain Brothers Bridge Kanawha County, WV	WV Dept. of Transportation Engineering Division Charleston, WV 25301	\$7.5 M	2011	Yes
Tuppers Creek - Pocatalico Bridges Kanawha County, WV	WV Dept. of Transportation Engineering Division Charleston, WV, 25301	\$11.0 M	2012	Yes

18. COMPLETED WORK WITHIN LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO OTHER FIRMS (INDICATE PHASE OF WORK FOR WHICH YOUR FIRM WAS RESPONSIBLE)

PROJECT NAME, TYPE AND LOCATION	NAME AND ADDRESS OF OWNER	ESTIMATED CONSTRUCTION COST OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED WITH
Linmont Bridge Replacement Cabell County	WV Dept of Transportation Engineering Division Charleston, WV 25301	Bridge Design (VE)	2011	Yes	Paul's Concrete
Clothier Bridge Logan County	WV Dept of Transportation Engineering Division Charleston, WV 25301	Bridge Design (VE)	2011	Yes	Paul's Concrete
Market Street Bridge Brooks County, WV	WV Dept of Transportation Engineering Division Charleston, WV	Post Design Services	2011	Yes	Ahern & Assoc.
Leon Thru Girder Bridge Mason County, WV	WV Dept of Transportation Engineering Division Charleston, WV	Plans for Bridge (VE) Hydraulics Post Design	2010	Yes	Triton Construction
Holley Grove Bridge Kanawha County	WV Dept of Transportation Engineering Division Charleston, WV	\$500,000	2010	Yes	Triton Construction

19. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Abandoned Mine Lands Program.
E. L. Robinson Engineering Co. is committed to the WVDEP/AML program to provide professional design, surveying and mapping and construction monitoring services in a timely and cost-efficient manner. Our business plan relies heavily on the work offered by the WVDEP/AML program.

20. The foregoing is a statement of facts.

Signature:  Title: PROJECT MANAGER Date: September 10, 2018

Printed Name: Eric J. Coberly, P.E.

EXPERIENCE
ABANDONED MINE LANDS



Pendleton Creek Highwall

Project Location: Tucker County, West Virginia
Completion Date: September, 2018
Client: WVDEP-AML
Project Description: Highwall Backfill

Maryland Shallmar Landslide Emergency

Project Location: Garrett County, Maryland
Completion Date: September 2018
Client: Maryland Department of the Environment
Project Description: Landslide Abatement Design

Maryland Barton Mine Pool

Project Location: Allegany County, Maryland
Completion Date: June 2018
Client: Maryland Department of the Environment
Project Description: Mine Pool Evaluation and Design

Maryland Scenic Railroad Landslide

Project Location: Frostburg, Maryland
Completion Date: August 2016
Client: Maryland Department of the Environment
Project Description: Landslide Abatement Design

EXPERIENCE
ABANDONED MINE LANDS



Squires Creek (Moats) Portal and Refuse

Project Location: Preston County, West Virginia
Completion Date: December 2014
Client: WVDEP-AML, Bridgeport, WV
Project Description: Performed surveying, drilling and design of refuse area and portals.

Red Warrior Gob & Slide

Project Location: Kanawha County, West Virginia
Completion Date: June 2015
Client: WVDEP-AML, Charleston, WV
Project Description: Performed surveying, drilling and design for a potential blowout area. Designed horizontal bore for dewatering.

Glen Alum Complex

Project Location: Mingo County, West Virginia
Completion Date: September 2014
Client: WVDEP-AML, Charleston, WV
Project Description: Performed surveying and design for large refuse area and upgrading of surface drainage.

West Columbia "B"

Project Location: Mason County, West Virginia
Completion Date: July 2013
Client: WVDEP-AML, Charleston, WV
Project Description: Performed surveying, drilling and design for numerous mine portals.

EXPERIENCE
ABANDONED MINE LANDS



Milam Ridge

Project Location: Wyoming County, West Virginia
Completion Date: December 2012
Client: WVDEP-AML, Charleston, WV
Project Description: Performed surveying, drilling and design for numerous mine portals.

Carson One Special Reclamation Project

Project Location: Upshur County, West Virginia
Completion Date: June 2015
Client: WVDEP-Special Reclamation, Philippi, WV
Project Description: Performed surveying, drilling and design for regrading refuse, sealing mine shafts and slopes and upgrading drainage structures.

Preston Energy/Rockville/Viking Coal Special Reclamation

Project Location: Preston County, West Virginia
Completion Date: October 2015
Client: WVDEP-Special Reclamation, Philippi, WV
Project Description: Performed surveying and design for design of reclamation of portals and piping system to convey mine water to treatment plant.

North Matewan (Akers) Landslide

Project Location: Mingo County, West Virginia
Completion Date: June 2013
Client: WVDEP-AML, Charleston, WV
Project Description: Performed surveying, drilling and emergency design for stabilizing landslide.

Branchland (Blankenship) Landslide

Project Location: Lincoln County, West Virginia

Completion Date: May 2014

Client: WVDEP-AML, Charleston, WV

Project Description: Performed surveying, drilling and emergency design for stabilizing landslide.

Coburns Creek Landslide

Project Location: Preston County, West Virginia

Completion Date: May 2014

Client: WVDEP-AML, Bridgeport, WV

Project Description: Performed surveying, drilling and emergency design for stabilizing landslide.

McGraws Vertical Opening

Project Location: Wyoming County, West Virginia

Completion Date: July 2013

Client: WVDEP-AML, Charleston, WV

Project Description: Performed emergency design for mine shaft cap.

New Cumberland Mine Blowout

Project Location: Hancock County, West Virginia

Completion Date: June 2013

Client: WVDEP-AML, Bridgeport, WV

Project Description: Performed surveying, drilling and design for mine blowout abatement.

Fairview Mine Shaft

Project Location: Marion County, West Virginia
Completion Date: October 2013
Client: WVDEP-AML, Bridgeport, WV
Project Description: Performed emergency design for mine shaft cap.

Whitehall Mine Fire

Project Location: Marion County, West Virginia
Completion Date: October 2013
Client: WVDEP-AML, Bridgeport, WV
Project Description: Performed surveying, drilling and design for extinguishment of mine fire.

Sauls Run Landslide

Project Location: Lewis County, West Virginia
Completion Date: May 2015
Client: WVDEP-AML, Charleston, WV
Project Description: Performed surveying and emergency design for stabilizing landslide.

Missouri Fork Landslide

Project Location: Boone County, West Virginia
Completion Date: May 2015
Client: WVDEP-AML, Charleston, WV
Project Description: Performed surveying and emergency design for stabilizing landslide.

Worthington (Hess) Landslide

Project Location: Marion County, West Virginia
Completion Date: May 2015
Client: WVDEP-AML, Bridgeport, WV
Project Description: Performed surveying, drilling and emergency design for mine blowout and landslide abatement.

Copen Road Landslide

Project Location: Braxton County, West Virginia
Completion Date: July 2015
Client: WVDEP-AML, Bridgeport, WV
Project Description: Performed surveying, drilling and emergency design for stabilizing landslide.

Lynch Run Mine Blowout

Project Location: Gilmer County, West Virginia
Completion Date: May 2015
Client: WVDEP-AML, Bridgeport, WV
Project Description: Performed surveying, drilling and emergency design for mine blowout and landslide abatement.

Dans Branch (Dillon) Landslide

Project Location: Mingo County, West Virginia
Completion Date: July 2015
Client: WVDEP-AML, Charleston, WV
Project Description: Performed surveying, drilling and emergency design for stabilizing landslide.

Marsh Run Portals

Project Location: Braxton County, West Virginia
Completion Date: 2013
Client: WVDEP-AML, Charleston, WV
Project Description: Performed survey, drilling and design for mine seals and regrading.

Donnie Thorn Highwall

Project Location: Preston County, West Virginia
Completion Date: 2013
Client: WVDEP-AML, Bridgeport, WV
Project Description: Field surveying and mapping, subsurface investigation, design work for refuse regrading, mine seals, and drainage.

Vickers Branch (Butcher) Drainage

Project Location: Logan County, West Virginia
Completion Date: 2013
Client: WVDEP-AML, Charleston, WV
Project Description: Performed survey, drilling, design for mine seals and mine drainage control.

Morgan #46 Highwall

Project Location: Preston County, West Virginia
Completion Date: 2013
Client: WVDEP-AML, Bridgeport, WV
Project Description: Performed survey and design for refuse and spoil regrading and drainage control.

EXPERIENCE
ABANDONED MINE LANDS



Sugarcamp Run Burning Refuse Phase II

Project Location: Nicholas County, West Virginia
Completion Date: 2013
Client: WVDEP-AML, Oak Hill, WV
Project Description: Performed site survey, drilling and prepared burning refuse abatement design.

Glen Rogers Emergency

Project Location: Wyoming County, West Virginia
Completion Date: 2012
Client: WVDEP-AML, Charleston, WV
Project Description: Performed survey, drilling, and design for shaft seals.

Abney Refuse Pile

Project Location: Raleigh County, West Virginia
Completion Date: 2011-2013
Client: WVDEP-AML, Oak Hill, WV
Project Description: Field surveying and mapping, subsurface investigation, design work for refuse regrading, mine seals, and drainage.

Cartright Branch Refuse Pile

Project Location: Logan County, West Virginia
Completion Date: 2011-2012
Client: WVDEP-AML, Charleston, WV
Project Description: Performed survey, drilling, design for refuse regrading and mine drainage control.

EXPERIENCE
ABANDONED MINE LANDS



Thorpe Refuse Pile

Project Location: McDowell County, West Virginia
Completion Date: 2011-2012
Client: WVDEP-AML, Oak Hill, WV
Project Description: Performed survey, drilling, design for refuse and spoil regrading and mine drainage control.

Shinnston Lumberport Subsidence

Project Location: Harrison County, West Virginia
Completion Date: 2010-2012
Client: WVDEP-AML, Philippi, WV
Project Description: Performed site survey, drilling and prepared subsidence abatement design.

Newtown (Kinder) Portals Design

Project Location: Mingo County, West Virginia
Completion Date: 2010-2012
Client: WVDEP-AML, Charleston, WV
Project Description: Performed site survey, and prepared design for portals reclamation and drainage abatement design.

Gordon "C" Refuse Pile

Project Location: Boone County, West Virginia
Completion Date: 2010-2012
Client: WVDEP-AML, Oak Hill, WV
Project Description: Field surveying and mapping, subsurface investigation, design work for mine seals, drainage, and refuse reclamation.

EXPERIENCE
ABANDONED MINE LANDS



Keaton Branch Complex

Project Location: Raleigh County, West Virginia

Completion Date: 2010-2011

Client: WVDEP-AML, Oak Hill, WV

Project Description: Performed survey, drilling, design for refuse, regrading and mine drainage control.

Dunloup Creek Complex

Project Location: Raleigh County, West Virginia

Completion Date: 2009-2011

Client: WVDEP-AML, Oak Hill, WV

Project Description: Performed survey, drilling, design for refuse and spoil regrading and mine drainage control.

Brownton (McCord) Landslide

Project Location: Barbour County, West Virginia

Completion Date: 2009-2011

Client: WVDEP-AML, Philippi, WV

Project Description: Performed site survey, drilling and prepared landslide abatement design.

Keystone (Avery) Landslide Portal

Project Location: McDowell County, West Virginia

Completion Date: 2009-2011

Client: WVDEP-AML, Charleston, WV

Project Description: Performed site survey and prepared landslide abatement design, portals reclamation, and drainage control.

EXPERIENCE
ABANDONED MINE LANDS



Dan's Branch (Pennington) Landslide Emergency

Project Location: Mingo County, West Virginia
Completion Date: 2011
Client: WVDEP-AML, Charleston, WV
Project Description: Field surveying and mapping, subsurface investigation, design work for landslide reclamation.

East Bank (Willis) Mine Blowout

Project Location: Kanawha County, West Virginia
Completion Date: 2009
Client: WVDEP-AML, Charleston, WV
Project Description: Field surveying and mapping, design work for mine seal and drainage control.

Island Creek #18 Mine Complex

Project Location: Logan County, West Virginia
Completion Date: 2009-2011
Client: WVDEP-AML, Oak Hill, WV
Project Description: Field surveying and mapping, subsurface investigation, design work for mine seals, drainage, and refuse reclamation.

Jacob's Fork Complex

Project Location: Boone County, West Virginia
Completion Date: 2008-2009
Client: WVDEP-AML, Charleston, WV
Project Description: Field surveying and mapping, subsurface investigation, design work for mine seals, drainage, and reclamation.

EXPERIENCE
ABANDONED MINE LANDS



Gilmer B Site 3.8

Project Location: Gilmer County, West Virginia
Completion Date: 2008
Client: WVDEP-AML, Charleston, WV
Project Description: Performed survey, drilling, design for refuse and spoil regarding and mine drainage control.

Rhodell Refuse & Portals

Project Location: Wyoming County, West Virginia
Completion Date: 2008
Client: WVDEP-AML, Charleston, WV
Project Description: Performed survey, drilling, design for refuse and spoil regarding and mine drainage control.

Gouge Landslide Emergency

Project Location: Scotttown, Ohio
Completion Date: 2007
Client: ODNR-AML, Columbus, OH
Project Description: Performed site survey, drilling and prepared landslide abatement design.

Rodgers Subsidence Emergency

Project Location: Wellston, Ohio
Completion Date: 2007
Client: ODNR-AML, Columbus, OH
Project Description: Performed site survey and prepared subsidence abatement design.

EXPERIENCE
ABANDONED MINE LANDS



McAdams Subsidence Emergency

Project Location: Stark County, Ohio

Completion Date: 2006

Client: ODNR-AML, Columbus, OH

Project Description: Performed investigation and prepared report of findings.

Athens Rt. 13 Refuse Fire Emergency

Project Location: Athens County, Ohio

Completion Date: 2006

Client: ODNR-AML, Columbus, OH

Project Description: Performed site survey, prepared abatement design and monitored on site construction for fire extinguishment.

Brown Landslide Emergency

Project Location: Rayland, OH

Completion Date: 2007

Client: ODNR-AML, Columbus, OH

Project Description: Performed site survey and prepared landslide abatement design.

Toney Fork Landslide Emergency

Project Location: Boone County, West Virginia

Completion Date: 2006

Client: WVDEP-AML, Charleston, WV

Project Description: Performed site survey, drilling and prepared plans and specifications to stabilize an emergency landslide area.

EXPERIENCE
ABANDONED MINE LANDS



Lavender Refuse Fire Emergency

Project Location: Meigs County, Ohio
Completion Date: 2005
Client: ODNR-AML, Columbus, OH
Project Description: Performed abatement plan and monitored construction.

Goetz Subsidence Emergency

Project Location: Columbiana County, Ohio
Completion Date: 2005
Client: ODNR-AML, Columbus, OH
Project Description: Performed investigation and prepared report of findings.

Cox Refuse Fire Emergency

Project Location: Gallia County, Ohio
Completion Date: 2005
Client: ODNR-AML, Columbus, OH
Project Description: Performed abatement design for fire extinguishment.

North Matewan (Sipple Drainage)

Project Location: Mingo County, West Virginia
Completion Date: 2005
Client: WVDEP-AML
Project Description: Performed surveying, drilling and design for drainage project abatement.

Phalen Landslide Emergency

Project Location: Martins Ferry, Ohio

Completion Date: 2005

Client: ODNR-AML, Columbus, OH

Project Description: Performed site surveying and landslide abatement design.

Adkins Landslide Emergency

Project Location: Gallia County, Ohio

Completion Date: 2005

Client: ODNR-AML, Columbus, OH

Project Description: Performed surveying, drilling, landslide abatement and construction monitoring.

Baisden Subsidence Emergency

Project Location: Jackson County, Ohio

Completion Date: 2005

Client: ODNR-AML, Columbus, OH

Project Description: Performed drilling to develop subsidence abatement solutions.

Treadway Landslide Emergency

Project Location: Rayland, Ohio

Completion Date: 2004

Client: ODNR-AML, Columbus, OH

Project Description: Performed site surveying, drilling and landslide abatement design.

EXPERIENCE
ABANDONED MINE LANDS



Big Creek "C" Refuse

Project Location: Logan County, West Virginia
Completion Date: 2004
Client: WVDEP-AML
Project Description: Performed surveying and drilling for design.

Imboden Landslide Emergency

Project Location: Rutland, Ohio
Completion Date: 2004
Client: ODNR-AML, Columbus, OH
Project Description: Performed drilling and surveying to develop landslide abatement solutions and cost estimates.

Parsons Landslide Emergency

Project Location: New Philadelphia, Ohio
Completion Date: 2004
Client: ODNR-AML, Columbus, OH
Project Description: Performed site review and report concerning landslides relation to mining and potential solutions.

Jefferson County Road 26 Landslide Emergency

Project Location: Weinterville, Ohio
Completion Date: 2004
Client: ODNR-AML, Columbus, OH
Project Description: Performed surveying, drilling and prepared plans and specifications to stabilize and emergency landslide area.

EXPERIENCE
ABANDONED MINE LANDS



Charleston Romeo Landslide

Project Location: Kanawha County, West Virginia
Completion Date: 2004
Client: WVDEP-AML
Project Description: Performed surveying, drilling and design of landslide abatement.

Titus Road Landslide Emergency

Project Location: Rutland, Ohio
Completion Date: 2004
Client: ODNR-AML, Columbus, OH
Project Description: Performed surveying, drilling and prepared plans and specifications to stabilize and emergency landslide area.

Lewis Landslide Emergency

Project Location: Pomeroy, Ohio
Completion Date: 2004
Client: ODNR-AML, Columbus, OH
Project Description: Performed surveying, drilling, prepared plans and specifications to stabilize an emergency landslide area, and provided construction monitoring.

Roush Landslide Emergency

Project Location: Pomeroy, Ohio
Completion Date: 2004
Client: ODNR-AML, Columbus, OH
Project Description: Prepared plans and specifications to stabilize an emergency landslide area.

Moran Subsidence

Project Location: Clinton, Ohio
Completion Date: 2004
Client: ODNR-AML, Columbus, OH
Project Description: Prepared plans and specifications to stabilize an emergency subsidence area.

Ron Bobar Subsidence

Project Location: Flushing, Ohio
Completion Date: 2004
Client: ODNR-AML, Columbus, OH
Project Description: Investigation and report of an emergency subsidence area.

Gooney Otter Refuse

Project Location: Wyoming County, West Virginia
Completion Date: 2004
Client: WVDEP-AML
Project Description: Performed surveying, drilling and site design for refuse regarding project.

Chapmanville (Gorby) Mine Blowout

Project Location: Logan County, West Virginia
Completion Date: 2003
Client: WVDEP-AML
Project Description: Performed surveying, drilling and design of landslide regrading and retaining wall design.

EXPERIENCE
ABANDONED MINE LANDS



Tuppers Creek (Layne) Landslide

Project Location: Kanawha County, West Virginia
Completion Date: 2003
Client: WVDEP-AML
Project Description: Performed surveying, drilling and design of landslide abatement.

Maidsville (Tennant) Landslide

Project Location: Monongalia County, West Virginia
Completion Date: 2003
Client: WVDEP-AML
Project Description: Performed surveying, drilling and design of landslide abatement.

Whittington Hill (Walker Landslide)

Project Location: Kanawha County, West Virginia
Completion Date: 2002
Client: WVDEP-AML
Project Description: Performed surveying, drilling and design for an emergency landslide.

Minden Refuse Pile Reclamation Project

Project Location: Fayette County, West Virginia
Completion Date: 2001
Client: WVDEP-AML
Project Description: Performed surveying and design for emergency project to upgrade drainage control.

Jeffrey Mine Complex Reclamation Project

Project Location: Boone County, West Virginia
Completion Date: 2001
Client: WVDEP-AML
Project Description: Performed surveying and design regrading refuse.

Hot Coal Reclamation Project

Project Location: Raleigh County, West Virginia
Completion Date: 2000
Client: WVDEP-AML
Project Description: Performed surveying and design for regrading refuse.

Bull Run #27

Project Location: Preston County, West Virginia
Completion Date: 2000
Client: WVDEP-AML
Project Description: Performed surveying and design for regrading refuse.

Rich Fork (Thaxton) Landslide

Project Location: Kanawha County, West Virginia
Completion Date: 2003
Client: WVDEP-AML
Project Description: Performed surveying, drilling and design of landslide abatement.

Riffe Branch Impoundment

Project Location: Fayette County, West Virginia
Completion Date: 2000
Client: WVDEP-AML
Project Description: Performed surveying and design for regrading refuse and drainage control.

Ven's Run Landslide

Project Location: Harrison County, West Virginia
Completion Date: 1999
Client: WVDEP-AML
Project Description: Performed surveying and design for regraded landslide area.

Fickey Run

Project Location: Preston County, West Virginia
Completion Date: 1999
Client: WVDEP-AML
Project Description: Performed surveying and design for refuse and spoil regrading and drainage control.

Bull Run #35

Project Location: Preston County, West Virginia
Completion Date: 1999
Client: WVDEP-AML
Project Description: Performed surveying and design for refuse and spoil regrading.

EXPERIENCE
ABANDONED MINE LANDS



Securro Mine Drainage Site 1 & 2

Project Location: Fairmont, West Virginia

Completion Date: 1998

Client: WVDEP-AML

Project Description: Performed surveying and design for mine drainage system.

Brown's Creek #10 Reclamation Project

Project Location: McDowell County, West Virginia

Completion Date: 1997

Client: WVDEP-AML

Project Description: Performed surveying and design for refuse regrading and mine seal installation.

AML Project Designs

Performed geotechnical analysis on 135 projects over the past 20 years. These project involved slope stability, mine pool locations and mine subsidence.

US 35 Design Build

Utilized provided core boring data, coordinated drilling of over 100 additional core borings to design 7.5 miles of 4 lane highway in Putnam County, West Virginia. This included the foundation designs of bridge piers and abutments for 2 bridges carrying the 4 lane roadway over a major stream and an existing roadway.

WVDOT-District 2 Mingo County

Solicited core borings, provided field personnel to log core samples, designed 4 pile retaining walls for landslides effecting existing roadways. Including analyzing piling, lagging and other aspects of each wall. Developed plans with profile, traffic control, estimated quantities, drainage controls, etc. in a bid package suitable for WVDOT to solicit bids.

WVDOT-District 2 Logan County

Solicited core borings, provided field personnel to log core samples, designed 5 pile retaining walls for landslides effecting existing roadways. Including analyzing piling, lagging and other aspects of each wall. Developed plans with profile, traffic control, estimated quantities, drainage controls, etc. in a bid package suitable for WVDOT to solicit bids.

WVDOT-District 2 Lincoln County

Solicited core borings, provided field personnel to log core samples, designed 14 pile retaining walls for landslides effecting existing roadways. Including analyzing piling, lagging and other aspects of each wall. Developed plans with profile, traffic control, estimated quantities, drainage controls, etc. in a bid package suitable for WVDOT to solicit bids.

WVDOT Cottageville Bridge

Solicited bids from drilling contractors, coordinated drilling for a bridge replacement in Jackson and Mason County, West Virginia. The geotechnical testing performed consisted of five hydrometer analysis and rock core compression testing. The design included pile foundations for the piers and abutments, sonar analysis of the creek channel as it relates to the soil materials and slope stability analysis for each abutment.

WVDEP-AML Dans Branch

Performed geotechnical investigation of an AML emergency landslide. Performed core borings and geotechnical testing of soil samples obtained from the borings. Designed pile retaining wall to support embankment and existing home below pre-law mining.

I-77 Tupper's Creek Pocatalico Bridges

The subsurface investigation consisted of 4 test borings, 2 for each abutment. The structure core borings were advanced to depths ranging from 34.9 ft to 59.1 ft below the ground surface. Standard Penetration Tests were performed to approximate five foot intervals in each of the boring locations. Split spoon samples were taken until either auger refusal or spoon refusal was reached.

Dempsey Bottom Beam Spam

The subsurface investigation consisted of 6 test borings, all of which encountered bedrock. Four of the core borings were located at the site of the two proposed abutments, while the other two were drilled at the site of the proposed retaining wall. Hollow stem augers were utilized to drill the holes through the overburden. The Standard Penetration Test method utilizing split-spoon sampler was also used to sample the overburden soils.

Guyandotte River Bridge

ELR performed geotechnical design including future mine subsidence remediation for this bridge. During the design process a check of the mining records determined the presence of a coal seam in the vicinity of the bridge. After review of the mine maps and additional drilling, presence of mine voids was confirmed. Using the depths from the ground surface to the mine level a limit of grout protection was developed. The grouting program developed included some down hole camera work and confirmation borings to confirm the grout effectiveness. Grouting of the mine void eliminated the possibility of future mine subsidence in the vicinity of the substructure and allowed the bridge to be supported on conventional caissons.

South Lee Exxon Bridge

The subsurface investigation consisted of 4 test borings, two drilled for each abutments and two at the pier site. The structure core borings were advanced to depths ranging from 35 ft to 60 ft below the ground surface using continuous flight augers. Standard Penetration Tests were performed at approximately 2.5 feet intervals at each of the boring locations. Split spoons samples were taken until either auger refusal or spoon refusal was reached.

E.L. Robinson has worked with various clients, both private firms and public entities, in developing hydrology and hydraulics studies to determine effects that developments would have on floodplains and how they might adversely affect the surrounding communities.

- East Fork Bridge
 - South Cuba Bridge
 - WV 10 Operational Improvements
 - Jesse Bridge
 - Herndon Slab Bridge
 - Car Wash Bridge
 - Matoaka Bridge No. 1
 - Matoaka Bridge No 2
 - Ssg Gene Arden Vance Jr Memorial Bridge
 - Toney Fork Slab Bridge
 - Road Branch Bridge
 - Beech Branch Bridge
 - Giatto Overpass Bridge
 - Hiawatha Overpass Bridge
 - U.S. Army Sp4 Jackie (Hearn) Mcmillion Memorial Bridge
 - Blue Creek Bridge
 - Marsh Fork Bridge
 - Junior Bridge
 - Corridor H – Kerens to Parsons
 - Baldlick Fork Bridge (Bridge #1)
 - Panther Run Bridge (Bridge #2)
 - South Branch of Haddix Run Bridge (Bridge #3)
 - Unnamed Trib of Haddix Run Bridge (Bridge #4)
 - Bridge over Haddix Run and US 219 (Bridge #5)
- Cherry Tree Bridge
- Laurel Creek Girder Bridge

EXPERIENCE
HYDRAULICS/HYDROLOGY



- Exxon Bridge
- Centerville Bridge
- Cottageville Bridge
- Crockett Bridge

EXPERIENCE

AERIAL PHOTOGRAPHY/MAPPING



E.L. ROBINSON
ENGINEERING

E.L. Robinson Engineering has worked with various clients to develop contour mapping of sites and areas that otherwise could not be determined. With the use of aerial photography and state of the art technology, ELR has developed maps from photographs for numerous projects including but not limited to:

- City of Beckley
- City of Charleston
- Corridor D
- Corridor H
- Cross Lanes Connector
- Eldora
- Frazier's Bottom
- Glenwood
- Hatfield Cemetery
- I-70 Washington Avenue (Wheeling, WV)
- I-64 Glade Creek
- Jackson Mill
- King Coal
- KY 40 Connector
- Logan Run
- New River Parkway
- Ohio River Crossing
- Pinegrove
- Parkersburg
- Powell Creek
- Prince
- PSI-Baker/Ft. Henry Bridges
- Racetrack
- White Sulphur Springs
- Veterans Park

EXPERIENCE AERIAL PHOTOGRAPHY/MAPPING



E.L. Robinson Engineering has completed the preliminary mapping for the WVDEP for all of the AML projects located in Northern West Virginia since 2012. In addition, ELR has completed either preliminary or final mapping for the following:

- 2003-Present
 - All ELR AML Projects WV and OH
- 2002
 - Community of Preston
 - Rhodell Refuse Portals
 - Vivian Refuse Maintenance
 - Glen Rogers Waterline
 - Sundial (Hatfield) Refuse Pile
 - Jacob Fork Complex
 - Thomas (NE) Subsidence
- 2001
 - Bartley Mine Dump
 - Beckley Soccer Complex
 - Holden Portals/Structures
 - Jeffrey Complex
 - Minden Refuse Drainage
 - Roach Branch Refuse
 - Sauls Run Strip
 - Stonecoal Creek Complex
 - Waterline Photography
 - Weaver Portals/Mine Drain
- 2000
 - Micajah Refuse Pile
 - McAlphin Eroding Dump
 - Flemington Portals/Drainage
- Minden "C" Refuse Pile
- National Mine Complex
- Linger Clogged Stream
- Hotcoal Mine Dump
- Layton Mine Drainage
- Quintain Development
- 1999
 - Bull Run #27
 - 8th Street-Warwood Avenue
 - Mabie Highwall
 - Coal Branch
 - Matoaka Subsidence
 - Elkins Coal
 - Springton Refuse
 - Veins Run
- 1998
 - Bull Run #35
 - Fickey Run
- 1997
 - Browns Creek
 - Marrowbone
 - Matewan
 - Pigeon Creek

EDWARD L. ROBINSON, P.E., P.S.
PRESIDENT



Education

M.S. Civil Engineering, University of West Virginia
College of Graduate Studies, 1981

B.S. Civil Engineering, West Virginia Institute of Technology, 1969

Registrations

Registered Professional Engineer in West Virginia, Kentucky, Ohio, Florida, Virginia, and North Carolina

Registered Professional Surveyor in West Virginia



Professional Experience

Mr. Robinson founded E. L. Robinson Engineering in 1978 with four employees. Initially the firm provided land surveying and land development services. Over the course of the next 20 years, the firm added water and wastewater engineering as well as structural inspection services simultaneously growing to 14 employees.

Under his leadership, E. L. Robinson enters the new millennium as a multi-disciplined professional services firm that utilizes the latest technology in the design of added infrastructure, highways, bridges, structures, environmental, civil, and geotechnical projects as well as global position satellite surveying, right-of-way, construction inspection and architectural services.

The firm now employs more than 135 engineers, architects, surveyors and support personnel and has been converted to an employee owned company through an Employee Stock Ownership Plan (ESOP).

Professional Memberships

National Society of Professional Engineers

American Society of Civil Engineers

Water Environmental Federation

Offices Held

Chairman of WVUIT Advisory PSD

President of West Virginia Council of Consulting Engineers

Chairman Transportation Committee - WV Association of Consulting Engineers

State Director of West Virginia Society of Professional Engineers

President of West Virginia Society of Professional Engineers

EDWARD L. ROBINSON, P.E., P.S.
(CONTINUED)



Assistant Treasurer of the American Society of Civil Engineers
National Director of the ASCE representing WV, NC, SC and VA
President of West Virginia Section of ASCE

Honors Awarded

Alumnus of the Year – West Virginia University Institute of Technology, 1992
Engineer of the Year – West Virginia Society of Professional Engineers, 1997
Engineer of the Year – American Society of Civil Engineers, 1998
National Entrepreneur of the Year Finalist – Ernst & Young, 2001
Engineering Entrepreneur of the Year – Ernst & Young, 2001
Honorary PhD, Doctor of Science – West Virginia Institute of Technology 2002

ERIC COBERLY, P.E.
PROJECT MANAGER



Education

M.S. Engineering of Mines, West Virginia University, 1990

B.S. Engineering of Mines, West Virginia University, 1983

Registrations

Registered Professional Engineer in West Virginia, Ohio, and Maryland



Professional Experience

Mr. Coberly has more than 30 years of experience as an infrastructure and mining engineer. He has extensive experience in project planning, funding coordination and design. Mr. Coberly has managed projects with ELR which have involved site development, infrastructure planning, water, sewer, geotechnical analysis, abandoned mine reclamation projects, building construction, active surface mining projects, insurance investigations, providing expert witness services and various post mining land use projects.

Mr. Coberly served as the Chief for the West Virginia Department of Environmental Protection Abandoned Mine Lands Division for more than 4 years. In this position, he was responsible for managing and directing the operations of the Abandoned Mine Lands Office. This program is responsible for reclaiming lands damaged due to coal mining that occurred prior to 1977. The Office investigates, plans, designs, bids and oversees construction projects reclaiming these abandoned mines. The budget for the Office is approximately \$66 Million with a staff of nearly 60 employees.

Mr. Coberly has managed projects with ELR which have involved site development, infrastructure planning, water, sewer, geotechnical analysis, abandoned mine reclamation projects, building construction, active surface mining projects, insurance investigations, providing expert witness services and various post mining land use projects.

Mr. Coberly has participated in well over 100 AML project designs.

Representative Projects

The following is a sample list of recent projects on which Mr. Coberly has served as Project Manager

- Over 100 West Virginia Department of Environmental Protection Abandoned Mine Lands reclamation projects
- City of Bluefield Commercialization Center - \$2.55 Million
- Greenfield Cabinetry Building Expansion - \$3.64 Million
- Scott Findley Road Waterline Extension Project - \$1.2 Million
- Exchange Road Phase I Waterline Extension - \$3.1 Million

- Putnam Business Park Utility Extension Phase II - \$1 Million
- Kenova Downtown Water System Upgrade - \$1.9 Million
- Kenova Prichard Waterline Replacement and Upgrade Project - \$4.7 Million
- Route 18 South-Snowbird Road Waterline Extension Project - \$969,000
- Big Flint Waterline Extension Project - \$7.8 Million
- Poca Belt Press - \$1.6 Million
- Blue Knob Waterline Extension Project - \$2.3 Million
- Town of Burnsville Sewer Study - \$2.7 Million
- Bergoo Wastewater Collection and Treatment System Project - \$2.7 Million
- Cow Creek Waterline Extension Project - \$815,000
- WVDEP OSR Viking Preston Mining Project - \$2.3 Million

TIM CART, P.E.
GEOTECHNICAL/STRUCTURAL ENGINEER



Education

B.S. Civil Engineering, West Virginia University, 1981, Magna Cum Laude

Registrations

Registered Professional Engineer West Virginia (1986)

Registered Professional Surveyor in West Virginia (1995)



Professional Memberships

American Society of Civil Engineers (ASCE)

Professional Experience

Mr. Cart has over 35 years of experience in providing consulting engineering services. Clients served have included industrial, public and private institutions and State and Federal Agencies. He has served as project manager, project engineer and lead geotechnical investigator on numerous geotechnical projects including highways, bridges, industrial sites, buildings and various developments. He has also designed numerous sites for commercial retail including drug store sites, hotels, restaurants, 911 centers, regional bus garages, public service district maintenance facilities, gas station commercial sites, banks, etc.

Representative Projects

Mr. Cart has completed numerous geotechnical projects including the following:

- Lavalette Widening Project
- Camp Creek Bridge
- Corridor H - Kerens to Parsons Design Build
- Corridor H - Davis to Bismark
- Corridor H - Old Fields to Moorefield
- US 35 - Lower Five Mile Creek to Three Mile Creek
- US 35 - WV 34 to Buffalo Bridge Design Build
- WVDOH District 2 FEMA Emergency Landslides (35 Projects)
- WVDOH District 1 FEMA Emergency Landslides (9 Projects)

Mr. Cart has completed numerous structural projects including the following:

- Mason County 911 Center and Garage
- Putnam County 911 Center and Maintenance Garage
- Mingo County 911 Center
- Wetzel County 911 Center
- Mingo County Wood Park Industrial Park
- Upshur County Industrial Park
- Earl Ray Tomblin Industrial Park
- Putnam County Industrial Park
- Walgreens - Cross Lanes, WV
- TGI Fridays - Cross Lanes, WV
- Saturn - Hurricane, WV
- Hurricane Chevrolet - Hurricane, WV
- 7-11 Shell Gas Station - South Charleston, WV
- Hatfield McCoy Trail Head Office - Lincoln County, WV
- Bank of Mingo - Belo, WV

Mark McGettigan, P.E.
Project Engineer



Education

M.S.E. Engineering Management/Environmental Engineering,
Marshall University December 2007

B.S. Civil Engineering Technology, Fairmont State College, 1999

Registrations

Registered Professional Engineer in West Virginia

Professional Experience

Mr. McGettigan has worked on numerous land development and commercial building construction projects during his 18 years with E. L. Robinson Engineering. His duties on these projects varied from procuring all necessary permits to designing potable water, sanitary sewer and storm sewer connections to development lots and commercial properties.

Mr. McGettigan has also been project manager for numerous water and wastewater projects throughout West Virginia. He has secured the funding, designed, obtained permits and managed the construction for numerous water and sanitary sewer projects throughout southern West Virginia totaling well over \$60,000,000. Further, he has successfully worked on or managed numerous Phase I and Phase II ground water quality investigations and feasibility studies and reclamation projects for the West Virginia Department of Environmental Protection Abandoned Mine Lands program.

Professional Memberships

American Society of Civil Engineers

Representative Projects

Mr. McGettigan has been the construction manager/engineer on the following projects:

Charles Pointe – North Landbay Phase I Infrastructure Project – Mr. McGettigan developed the bid documents and technical specifications for this commercial development project. He also conducted the bidding process and performed all other administration duties for this project. Mr. McGettigan managed the construction inspection and drafted change orders to construct additional infrastructure with excess funds.

Charles Pointe – South Landbay Phase I Infrastructure Project - Mr. McGettigan developed the bid documents and technical specifications for this commercial development project. He also conducted the bidding process and performed all other administration duties for this project. Mr. McGettigan managed the construction inspection and drafted change orders to construct additional infrastructure with available excess funds.

Charles Pointe – West Fork Watershed Improvement Project - Mr. McGettigan developed the bid documents and technical specifications for this stormwater detention project associated with the commercial development of the



Mark McGettigan, P.E.
(continued)



Genesis Partners, LLC Property. He also conducted the bidding process and performed all other administration duties for this project. Mr. McGettigan managed the project construction inspection through closeout of the project.

Mr. McGettigan has also worked on all phases of numerous commercial site development projects throughout West Virginia. These projects range from industrial parks to hotels, restaurants, banks and maintenance facilities.

All of these projects required stormwater analysis, NPDES construction stormwater permits and temporary/permanent stormwater detention facilities. Mr. McGettigan calculated the pre-development and post-development discharges, time of concentration and required storage capacities on these projects.

Mr. McGettigan has also worked on numerous West Virginia Department of Environmental Protection – Abandoned Mine Land (WVDEP-AML) projects. Mr. McGettigan also calculated the pre-development and post-development discharges and designed the discharge channels/culverts for these projects. Mr. McGettigan uses a variety of software for drainage calculations including TR-55 and StormCAD

Education

M.S. Geography, Marshall University, 1994

B.S. Geology, Marshall University, 1977

Registrations

Registered Professional Geologist in Virginia and Kentucky

Professional Memberships

Geological Society of America and Association of Engineering Geologist

Professional Experience

Mr. Watts has 40 years of experience in providing consulting services as a senior geologist. He has also served as project manager on numerous projects.

Mr. Watts is primarily an engineering geologist whose range of project experience has encompassed numerous projects concerning geologic investigation, rock and soils engineering, landslides, abandoned mine land reclamation, forensic damage investigations, hydrogeology and the coal industry.

Mr. Watts' AML experience includes over 100 projects spanning more than 33 years. He has served as both Project Manager and Designer for these projects. Further, he is proficient in field reconnaissance and drilling.

He has performed hundreds of slope stability analyses for landslides and other projects involving the design of stable slopes. In addition, he has performed several studies involving landslide prediction to aid clients in land use and safety planning. Projects involving rock slope stability have included high rock cuts for surface mining operations and highways.

Geotechnical experience has included numerous projects involving soils, foundations, landfills and damage studies. These projects have encompassed such areas as pile driving, caisson installation, earth fill placement, subsurface exploration, site reconnaissance, grout and concrete placement and quality control.

Representative Projects

- Huntington Mall, Barboursville, WV
- Best Buy, Barboursville, WV
- Fiesta Bravo Restaurant, Barboursville, WV
- McDonalds, Gilbert, WV
- Numerous Cell Phone Towers Cites

- Wallick Developers - Townhouses, Charleston, WV
- KFC, Beckley, WV
- McDonalds, Lavalette, WV
- KIng Coal Highway
- Coal Fields Expressway
- Charleston Town Center Mall
- New River Gorge- Cunard Access
- WVDEP - Carswell
- WVDEP - Prenter Road Waterline Feasibility
- WVDEP - Jolo/Paynesville/Wolfpen
- WVDEP - Swiss Drennan Areas, Gauley River
- WVDEP - Coal Mountain Waterline Feasibility
- WVDEP - Hanover Waterline Feasibility
- WVDEP - Brownton Landslide
- Veterans Hospital - Seven Landslides, Huntington, WV
- WVDOH - Five Landslides, Charleston, WV
- WVDOH - I-79 Landslide
- WVDEP - New River Gorge Landslide
- WVDEP - Herndon/Covel/Garwood Waterline
- WVDEP - Spy Rock/Edmond/Flanagan Waterline
- Marshall University - Corbly Hall
- Marshall University - Henderson Center Floor Cracking Study

Education

B.S. Civil Engineering, West Virginia University, 1998

Designing Skills

Auto CAD, Microstation, COM624-P, Inroads, Hec-Ras, and ELRSoil

Professional Experience

Mr. Kelly has more than 19 years of experience as an engineer and principal production person for numerous mine reclamation projects in West Virginia, Ohio and Maryland. He has experience specifically in the design of several abandoned mine land reclamation projects. These projects include large refuse pile grading, hydraulic calculations, design of drainage structures, retaining wall design, permitting (including NPDES, USACOE, Highway Department), and construction cost estimates. Mr. Kelly has assisted in the completion of waterline feasibility studies in various areas. Further, he has worked on waterline extensions and sewer collection systems including providing service to many residential as well as industrial customers.



Representative Projects

Mr. Kelly has vast experience in numerous arenas of civil engineering including site development, mine land reclamation, water and sewer extensions, and roadway design.

Specific AML Accomplishments:

WVDEP Mine Reclamation:

Dunloup Creek Complex

Jacobs Fork

Bull Run #27

Gilmer B

Thorpe Refuse

Rhodell Refuse

Milam Ridge Refuse

Brownnton Landslide

Abney Refuse

Gordon C Refuse

West Columbia B

East Bank Emergency

ODNR Mine Reclamation:

Lewis Landslide

Titus

Gouge Landslide

Eskew Subsidence

Athens Burning Refuse

Phalan Landslide

Jefferson Route 26 Landslide

Water and Sewer:

Cooper's Rock Waterline

Davis Water Tank

Rohr Road Waterline

Education

Auto CAD, Carver Career Center, 1986

Designing Skills

Auto CAD, Microstation, Inroads, and Hec-Ras

Professional Experience

Mr. Workman has more than 31 years of experience as an Auto CAD designer with an emphasis on infrastructure and mine reclamation projects. He has experience specifically in the design of several abandoned mine land reclamation projects. These projects include large refuse pile grading, design of drainage structures, retaining wall design, permitting (including NPDES, USACOE, Highway Department), and construction cost estimates. Additionally, Mr. Workman has assisted in the completion of waterline feasibility studies in various areas. Mr. Workman has worked on waterline extensions and sewer collection systems that have provided service to many residential and industrial customers.



Representative Projects

Mr. Workman has vast experience in numerous arenas of civil engineering including site development, mine land reclamation, water and sewer extensions, and roadway design. The following is an overview of prior experience:

WVDEP Mine Reclamation:	McGraws Shaft
Dunloup Creek Complex	Barkers Ridge Water Study
Fayette Water Studies	Covel Water Study
Gooney Otter	Otsego Water Study
Gilmer B	Waterline Projects:
Glen Rogers Emergency	Barkers Ridge
Marsh Run	Covel
Milam Ridge Refuse	Otsego
Brownnton Landslide	Big Hearts Creek
Abney Refuse	Marsh Fork
Gordon C Refuse	
West Columbia B	
East Bank Emergency	

Education

A.A.S. Architectural Drafting Technology
West Virginia State College, 1999

A.A.S. Computer Aided Drafting and Design
West Virginia State College, 1999

Computer Skills

Civil 3-D, ArcMap 10.1, AutoCAD Map, AutoCAD, MicroStation, Microsoft Office

Professional Experience

Mr. Garnes has more than 19 years of experience as a civil draftsman and designer. He is proficient in numerous drafting and mapping software platforms. His proficiency spans multiple areas such as Civil 3D, GIS, construction inspection, waterline planning and design, sanitary sewer planning and design, site development, cathodic protection planning, county-wide planning, infrastructure cataloging, and document preparation.

Representative Projects

WVDOH:

- City of Charleston - Lee Street Sidewalk Enhancements
- Town of Davis - Tucker County Rocks 2014

Village of Rio Grande Wastewater System Improvements and Wastewater Treatment Plant

Camp Caesar Infrastructure Improvements Project

Doddridge County PSD 2015 County Wide Water Study

Pocahontas County PSD

- Cheat Mountain Water Acquisition
- Dominion Waterline Extension

Village of Cadiz Water System Improvements Project

WVDNR:

- Watoga State Park Wastewater Treatment Plant Replacement Project
- North Bend State Park Waterline Extension
- Greenbrier State Forest Waterline Extension

Bluefield Commercialization Station

Rahall Transportation Institute Land Use Master Plans – Boone, Clay, Fayette, Lincoln, Logan, McDowell,



Mercer, Wayne, Wyoming, Raleigh, Upshur, Webster, and Marshall Counties

Webster County PSD Bergoo Wastewater System and Wastewater Treatment Plant Improvements

GIS - Marshall County 10 Year Comprehensive Water and Sewer Study

Town of Gilbert:

- Slabtown, Tamcliff and Paynter Bottom Waterline Extension Project
- Horsepen, Gilbert Creek and Browning Fork Waterline Extension
- River Bend Road Waterline Extension
- Upper Gilbert Creek Waterline Extension

Logan County PSD:

- Upper Little Harts Creek Waterline Extension
- Big Harts Creek Waterline Extension
- Marsh Fork Waterline Extension
- Hidden Valley/Airport Road Waterline Extension
- Ridgeview Sewer - Railroad Permits

Lincoln PSD McCorkle Railroad Crossing

Lincoln EDA Lower Mud River Waterline Extension

Queen Shoals PSD Waterline Extension

Town of Chapmanville Water Upgrade Project

West Virginia American Water:

- Sanderson/Dutch Ridge Waterline Extension
- Miller Mountain Waterline Extension
- Upper Winifrede Waterline Extension

Mingo County Redevelopment Authority:

- King Coal Highway Water and Sewer Project
- Mingo Central High School Water and Sewer Project
- Mingo County Airport Water and Sewer Project

Putnam County Business Park Utilities Extension Project

Norton Harding Jimtown PSD Scott Run/Findley Road Waterline Extension Project

Town of Matewan Red Jacket Sanitary Sewer Upgrade Project

South Charleston Sanitary PSD Corridor G Sanitary Sewer Study

J. TOM RAYBURN, P.S.
SURVEYING MANAGER



Education

A.S. Mechanical Engineering, West Virginia Institute of Technology, 1970

Registrations

Registered Professional Surveyor in West Virginia

Professional Experience



Mr. Rayburn currently serves as Manager of Surveying for E.L. Robinson Engineering (ELR) and has more than 30 years of Design Surveying and Construction Surveying experience. The responsibilities include management of surveying and control for various design projects, including highways, buildings, and bridges. In addition, Mr. Rayburn manages and performs work consisting of courthouse research for property ownership resolution for the above mentioned project types. This includes preparation of property resolution maps, deed descriptions for property acquisitions required for project plan preparation. Mr. Rayburn has experience in Geodetic Control Surveys, 3D Laser Scanning, Photogrammetric Control, Topographic Surveys, Cemetery Surveys, Boundary Surveys, Construction Stakeout, Subdivision Surveys, along with Hydrographic surveys of river and lake bottoms. A few of the more notable surveying projects performed by ELR under the supervision of Mr. Rayburn, has been the Blennerhassett Bridge Project, 11 continuous miles of Corridor H design surveys, GPS Control for the West Virginia Statewide Mapping and Addressing PSD Project, 3D Laser Scan and mapping of the CAMC Parking Garage partial collapse, and 3D Laser Scanning of I64/I77 Retaining Wall for Monitoring.

Representative Projects

Design Surveys:

Corridor H (WVDOT) Hardy County, WV: Lead Surveyor for Design Surveys, Right of Way Staking, etc. for approximately 11 miles of Corridor H in Hardy County, WV. This was for Sections 6 & 7 of Corridor H, both Sections of which are now under construction. Estimated construction cost of \$150 million dollars.

WV Route 10 (WVDOT) Logan to Man WV, Logan County, WV: Lead Surveyor for Design Surveys for a section approximately five miles in length from Man, WV, to Rita, WV, including the Man Bridge. Also provided control surveying for the entire project length of approximately 12 miles. The approximate five miles section of roadway is now under construction at an estimated cost of \$51 million dollars.

Blennerhassett Bridge, Corridor D (WVDOT), Wood County, WV: Lead Surveyor for Design Surveys for this landmark Bridge Project which is now under construction at an estimated cost of \$120 million dollars.

James Ramsey Bridge (WVDOT) Potomac River, Shepardstown, WV: Lead Surveyor for Design Surveys for this Bridge Project which is now completed at an estimated cost \$15.5 million dollars. This project involved working in an environmentally historic area, which adjoined a National Park.

US Route 35 (WVDOT) Mason County, WV: Lead Surveyor for Design Surveys for two Design Sections each approximately 2.5 miles in length from Lower Five Mile Road to Upper Nine Mile Road. Also provided control surveying for the entire US 35 design project length of approximately 22 miles.

I64/US 35 (WVDOT) I64 to US 34 Crooked Creek, Putnam County, WV: Lead Surveyor for Design Surveys, Right of Way Staking, etc. for approximately four miles of US 35 including Interstate 64 Ramps and Flyovers in Putnam County, WV. This included the I64 Bridges and Flyovers, which is now under construction.

ATB-Parrish Road (ODOT) Ashtabula County, Ohio: Project Design Surveyor for rail grade separation project. Project involved roadway realignment, 900' new bridge, new waterline, storm and sanitary sewers. Project is currently under construction. Estimated construction cost: \$8.6 million.

PIC-23-3.21 and Various (ODOT) Pickaway County, Ohio: Project Design Surveyor for ODOT Project PIC-23-3.21 and Various. Project involves deck replacements along 11 miles of US 23 in Pickaway County. Project includes large diameter culvert liner, interchange upgrade that includes mainline profile correction, ramp reconstruction, and addition of barrier wall and storm drainage. Project is currently under design (90%). Project scheduled for construction in 2007. Estimated construction cost: \$12 million.

ATB-90-22.06 (ODOT) Ashtabula County, Ohio: Project Design Surveyor for Interstate Reconstruction Project. Project includes total pavement replacement, bridge widening, and contra - crossover maintenance of traffic, culvert replacements and storm sewer rehabilitation and sign replacements. Project is currently under design (50%) and scheduled for construction in 2011. Estimated construction cost: \$36 million.

Construction Surveys:

Corridor D (WVDOT) Wood County, WV: Lead Surveyor for Highway/Bridge Construction Monitoring surveys for the following segments of Corridor D and related relocation projects:

Godbey Athletic Field Relocation Construction

Godbey Colt Field and Soccer Field Construction

West WV 47-East WV 47 Highway/Bridge Construction

East Buckeye-West Little Kanawha River Highway/Bridge Construction

Interstate I-79 Widening and Median Barrier (WVDOT) Harrison County, WV: Lead Surveyor for construction layout surveys for the widening of I-79 from the Meadowbrook Exit, north to the Jerry Dove Exit approximately three miles in length, as a subcontractor to the prime contractor.

CAMC 33rd Street Relocation and Building Expansion, Charleston, WV: Lead Surveyor for construction layout surveys for 33rd Street relocation along with ancillary items including sidewalks, drainage and utilities. Also layout surveys for building expansion project.

Saturn Dealership, Hurricane, WV: Lead Surveyor for Saturn Dealership site development and access roads at Hurricane Interchange of Interstate 64.

Arch Coal WV Mining Operations: Lead Surveyor as a subcontractor to Arch Coal operations for Valley Fill Construction (Up to 27 million cubic yard fills), mine haul road layout, drill line staking, and dragline pit layout.

Professional Memberships

American Congress on Surveying and Mapping

The American Association for Geodetic Surveying (AAGS)

Member Organization of ACSM.

Cartography and Geographic Information Society (CaGIS)

Geographic and Land Information Society (GLIS)

National Society of Professional Surveyors (NSPS)

West Virginia Association of Land Surveyors, Inc.

Education

High School Diploma, Sissonville High School, 1978

Professional Experience

Mr. Williams has been employed at ELR since 1978. Mr. Williams has had primary responsibility for the inspection of water, wastewater, and gas line construction and drilling projects.

Waterline projects he has inspected include: Cooper's Creek, Oak Hill, Uneeda/Quinland, Town of Danville, Southern PSC, South Putnam PSD, Kanawha Orchard PSD, Webster County Commission, Kanawha County's 1997 Water Extension projects and most recently RDA 1999 water extension projects.

He has also inspected the construction of sanitary sewer installation for the City of Charleston, Greater St. Albans PSD and South Putnam PSD.

Mr. Williams has inspected the construction of storm sewers for the City of Charleston and the City of Parkersburg. He has also inspected the relocation of gas lines for the Southern PSC and Consumer's Gas.

Mr. Williams has been involved both as a surveyor and inspector on all major projects performed by ELR. Mr. Williams has performed extensive courthouse research on numerous survey projects and is responsible for the field work associated with the AML projects.

Representative Projects

Sewer Installation for the Town of Delbarton

Sewer Installation for the City of Gilbert

Sewer Installation for the City of Weston

Highway Construction Inspection on Corridor D in Parkersburg, WV

Construction of water and sewer lines for South Putnam PSD on Teays Valley RD+1 and 34 Widening in Scott Depot

Inspected replacement of sewage treatment plant at Holly River State Park

Inspected construction of a storm sewers in Charleston and Parkersburg

Inspected relocations of gas and waterlines for Southern PSD for the construction of U.S. 119 in Holden

Inspected relocation of gas lines for Consumers Gas on Docks Creek, Whites Creek and Harrisville

AML and RELATED PROJECT EXPERIENCE MATRIX

PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE														Primary Staff Participation					
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/Hydraulic Design/Eval	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	M-Assign				
																		Ed Robinson, P.E.	Eric Coberly	Tim Cart, P.E.	Richard W. Watts, P.G.	Mark McGettigan, P.E.
Jacob's Fork Complex	C	YES		X	X	X				X					X	X	M		P		P	P
Rhodell Refuse & Portals	C	YES		X	X	X				X					X	X	M		P		P	P
Gilmer B Sites 3-8	C	YES		X	X	X				X					X	X	M		P		P	P
Morrisvale/Cameo/Big Horse Creek Waterline Feasibility Study	C	YES									X						M		P		P	P
Camp Creek Waterline Feasibility Study	C	YES									X						M		P		P	P
Lick Creek Waterline Feasibility Study	C	YES									X						M		P		P	P
Ragland Waterline Feasibility Study	C	YES									X						M	P	P		P	P
Beech Creek and Ben II Waterline Feasibility Study	C	YES									X						M		P		P	P
Dingess Waterline Feasibility Study	C	YES									X						M	P	P		P	P
Sharon Heights Waterline Feasibility Study	C	YES									X						M	P	P		P	P
Amherstdale Water Feasibility Study	C	YES									X						M	P	P		P	P
Mercer County Commission	C	YES									X						M	P	P		P	P
Danese PSD Waterline Feasibility Study	C	YES									X						M	P	P		P	P
New Haven Waterline Feasibility	C	YES									X						M	P	P		P	P
Nubbin Ridge/Camp Creek Waterline Feasibility Study	C	YES									X						M		P		P	
Bramwell Hill Waterline Feasibility Study	C	YES									X						M		P		P	P
Coaldale and Coaldale Mountain Waterline Feasibility Study	C	YES									X						M		P		P	P
Jennie Creek Waterline Feasibility Study	C	YES									X						M		P		P	
Beech Creek and Ben Areas Waterline Feasibility Study	C	YES									X						M		P		P	P
Blair/Sharples Area Waterline Feasibility Study	C	YES									X						M		P		P	P
Brown's Creek #10	C	YES	X	X	X	X	X				X				X	X	M		P			P
Bull Run #35	C	YES	X	X	X	X	X				X	X		X	X	X	M		P			P
Seccuro Mine Drainage	C	YES	X	X	X	X					X						M		P			P
Fickey Run	C	YES	X	X	X	X	X				X	X		X			M		P			P
Ven's Run	C	YES	X	X		X					X				X	X	M		P			P
Bull Run #27	C	YES	X	X	X	X	X				X	X		X	X	X	M		P		P	P
Riffe Branch	C	YES	X	X	X	X	X				X				X	X	M		P			P
Hot Coal	C	YES		X	X	X	X				X				X	X	M		P		P	P
Minden Refuse Pile	C	YES		X		X					X				X		M		P		P	P
Jeffrey Mine Complex	C	YES		X	X	X	X				X				X	X	M		P		P	P
Pigeon Creek Waterline	C	YES				X					X	X	X				M		P			P

AAM, and RELATED PROJECT EXPERIENCE MATRIX																							
PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE														Primary Staff Participation						
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/Hydraulic Design/Eval	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Ed Robinson, P.E	Eric Coberty	Tim Cart, P.E	Richard W. Watts, P.G	Mark McGettigan, P.E	John Kelly E.I.
Red Jacket, Matewan, Newtown Waterline	C	YES				X					X	X					M		P		P	P	
Marrowbone Waterline	C	YES				X					X	X	X				M		P		P	P	
Mount Zion Waterline	C	YES				X					X	X					M		P		P	P	
Coopers Rock, Pisgah, and Laurel Run Waterline	C	YES				X					X	X					M		P		P	P	
Davis Water Tank	C	YES				X					X	X					M		P		P	P	
Whittington Hill (Walker)Slide	C	YES		X	X	X					X					X	M	P/M	P				
Maidville Landslide	C	YES	X								X					X	M	P	P		P	P	
Rich Fork Landslide	C	YES	X	X							X					X	M	P	P		P	P	
Tuppers Creek Landslide	C	YES	X	X							X					X	M	P	P		P	P	
Glen Rogers Waterline	C	YES	X			X					X	X				X	M	P	P		P	P	
Gooney Otter Refuse	C	YES	X	X	X	X	X				X					X	M	P	P		P	P	
Chapmanville Mine Blowout	C	YES									X					X	M	P	P		P	P	
Charleston Romeo Landslide	C	YES		X	X	X					X					X	M	P	P		P	P	
Big Creek C Refuse	C	YES		X							X					X	M	P	P		P	P	
North Matewan Sipple	C	YES		X	X	X					X					X	M	P	P		P	P	
Moran Subsidence	C	YES		X					X		X					X	M	P	P		P	P	
Lewis Landslide	C	YES		X		X			X		X					X	M	P	P		P	P	
Roush Landslide	C	YES		X		X					X					X	M	P	P		P	P	
Jefferson 26 Landslide	C	YES		X		X					X					X	M	P	P		P	P	
Titus Road Landslide	C	YES	X	X		X					X					X	M	P	P		P	P	
Imboden Landslide	C	YES	X	X		X					X					X	M	P	P		P	P	
Balsden Subsidence	C	YES		X					X							X	M	P	P		P	P	
Parsons Landslide	C	YES		X												X	M	P	P		P	P	
Treadway Landslide	C	YES	X	X		X					X					X	M	P	P		P	P	
Phalen Landslide	C	YES		X		X					X					X	M	P	P		P	P	
Adkins Landslide	C	YES	X	X		X					X					X	M	P	P		P	P	
Goetz Subsidence	C	YES		X							X					X	M	P	P		P	P	
Lavender Refuse Fire	C	YES		X					X		X					X	M	P	P		P	P	
Cox Refug Fire	C	YES		X					X		X		X			X	M	P	P		P	P	
Toney Fork Landslide	C	YES		X		X					X					X	M	P	P		P	P	
Athens Rt. 13 Refuse Fire	C	YES		X					X		X		X			X	M	P	P		P	P	
McAdams Subsidence Ermer	C	YES		X					X		X					X	M	P	P		P	P	
Rodgers Subsidence	C	YES		X					X		X					X	M	P	P		P	P	
Brown Landslide	C	YES		X		X					X					X	M	P	P		P	P	
Town Run	P	NO																					
Whitcher Creek	P	NO										X											
Pond Gap, Hitop & Spangler	P	NO										X											
Elk City	P	NO										X											
Little Fork Refuse Pile	P			X		X	X	X															
OSM-Tackett Fork	P		X	X	X										X	X				P			
OSM-Ironton	P			X		X										X				P			
OSM-Williamson LS	P			X		X							X			X				P			
OSM-Ray Landslide	P			X												X				P			
OSM-Spence Landslide	P			X		X										X				P			
OSM-Ratiff Landslide	P			X		X										X				P			
OSM-Pigeon Roost LS	P			X		X										X				P			
OSM-Oak Hill Subsidence	P			X	X	X			X		X					X				P			

MIL and RELATED PROJECT EXPERIENCE MATRIX

PROJECT	Experience Basis Corporate-C Personal-P	Additional Information in Section	PROJECT EXPERIENCE														Primary Staff Participation in Assignments									
			Abandoned Surface Mine Reclamation	Abandoned Deep Mine Reclamation	Portal/Shaft Closure	Hydrological/Hydraulic Design/Eval	Remining Evaluation	Mine/Refuse Fire Abatement	Subsidence Investigation Mitigation	Hazardous Waste Disposal	Project Specifications	Water Quality Evaluation/Mitigation/Replacement	Construction Inspection/Management	Water Treatment	Equipment/Structure Removal	Stream Restoration	Geotechnical/Stability	Ed Robinson, P.E	Eric Coberly	Tim Cart, P.E.	Richard W Watts, P.G.	Mark McGettigan, P.E	John Kelly E.I	Gary A Workman, CADD		
OSM-Little Prater Creek	P			X																						
OSM-Hamilton II Landslide	P			X	X																					
Tuppers Creek B	P			X	X	X																				
Big Sandy Refuse	P		X	X		X																				
Leslie (Nelson)	P	2002	X	X	X	X	X																			
Swiss Drennan	P	2002	X	X	X	X	X																			
Minden C	P	2002	X	X	X	X	X					X	X													
Weston	P	2002												X												
Parkette	P	2002									X			X												
East Dupont Ave Landslide	P	2003		X	X	X	X			X																
Skin Creek Phase II	P	2003	X																							
Witcher Creek	P	2001	X	X	X	X									X		X	X	X							
Crane Creek	P	2004	X	X	X	X	X								X		X	X	X							
Yoursco	P	2004	X	X	X	X	X									X	X	X	X							
Carswell	P	2004	X												X	X	X	X	X							
Craigmoor	P	2004				X	X								X	X	X	X	X							
Downey Pierpont	P	2006								X					X		X	X	X							
Ames (Clare) Landslide	P	2007		X						X					X		X	X	X							
Colorado	P	1995	X	X	X	X																				
Madeline Refuse	P	1995	X	X	X	X	X				X				X		X	X	X							
Rocklick	P	1996	X	X	X	X	X				X				X		X	X	X							
Wahoo	P	1996	X	X	X	X	X								X		X	X	X							
Meadowbrook	P	1996	X	X	X	X	X			X					X		X	X	X							
Jumping Branch	P	1996													X	X	X	X	X							
Beard's Fork	P	1997	X	X	X	X	X								X		X	X	X							
Turkey Wallow	P	1997	X	X	X	X	X			X					X		X	X	X							
Otasco	P	1997	X	X	X	X	X								X		X	X	X							
Miller	P	1997	X	X	X	X	X								X		X	X	X							
Whitby	P	1998	X	X	X	X									X		X	X	X							
Barker	P	1999	X	X	X	X									X	X	X	X	X							
Gauley River Road	P	1999													X	X	X	X	X							
Skin Creek	P	2000	X	X	X	X	X								X		X	X	X							
Jolo	P	2001													X	X	X	X	X							
Tioga	P	2001													X	X	X	X	X							
Turkey Gap	P	2001	X	X	X	X									X	X	X	X	X							
Big Sandy	P	1987	X	X	X	X				X					X		X	X	X							
Marfrance	P	1988	X	X	X	X									X		X	X	X							
New Hill Ballpark	P	1988	X	X	X	X	X								X		X	X	X							
Jones Run	P	1988	X	X	X	X	X								X		X	X	X							
Chapmanville Landslide	P	1989		X	X	X				X					X		X	X	X							
Wharmcliff Landslide	P	1989		X	X	X									X		X	X	X							
Joyce Sturm	P	1990		X	X	X									X		X	X	X							
Marianna Refuse	P	1991	X		X	X	X								X		X	X	X							
Cedar Grove	P	1991		X	X	X	X								X		X	X	X							
Estdale	P	1991		X	X	X	X								X		X	X	X							
Hodgesville	P	1991	X	X	X	X									X		X	X	X							
Newsome Branch	P	1992	X	X	X	X	X								X		X	X	X							
Morrison	P	1992		X	X	X	X								X		X	X	X							
Snake Island	P	1993	X		X	X	X			X					X		X	X	X							
Orchard Branch	P	1994	X	X	X	X	X			X					X	X	X	X	X							

AML and RELATED PROJECT EXPERIENCE MATRIX

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																		Ed Robinson, P.E	Eric Coberly	Tim Cart, P.E	Richard W Watts, P.G	Mark McGuffigan, P.E	John Kelly, E.I
Thorne Refuse Pile	C	2011		X	X	X				X						X			P	P			P
Glen Rogers Emergency	C	2012		X	X	X				X									P	P			P
Abney Refuse Piles	C	2012		X	X	X				X						X			P	P			P
Milam Ridge Refuse	C	2012		X	X	X				X						X			P	P			P
West Columbia "B"	C	2012		X	X	X				X						X			P	P			P
Coburn Invest.	P			X					X							X			P				P
Gouge Landslide	P		X						X							X			P				P
Adamsville	P		X	X	X	X			X							X			P				P
Mount Pisgah	P		X						X										P				P
Pleasant Valley Church	P			X	X	X			X										P				P
Hodgesville B	P			X	X	X			X										P				P
Lynch Chapel	P			X	X	X			X					X		X			P				P
Snider Portals	P			X	X	X			X					X					P				P
Wash Run	P			X	X	X			X										P				P
Junior Sewage Plant	P		X	X	X	X			X										P				P
Shavers Fork/Stonecoal	P			X	X	X			X		X			X					P				P
Vargo Drainage	P			X	X	X			X										P				P
Fairhills Plaza Subsidence	P			X					X										P				P
Karen Vance AMD	P		X	X	X	X			X										P				P
Leroy Wilmoth Drainage	P			X	X	X			X										P				P
Big Knob Acid Mine Drainage	P		X	X	X	X			X		X		X						P				P
Matthew Smith Subsidence	P			X					X										P				P
Worthington Portals	P		X	X	X	X			X										P				P
Red Rock Drainage	P		X	X	X	X			X										P				P
Blackwater Manor	P		X	X	X	X		X											P				P
Buckhannon River Refuse	P			X	X	X			X		X		X		X				P				P
Hutcheson AMD	P			X	X	X			X					X					P				P
Nutter Fort Trestle -7th	P								X										P				P
East Bank Portals - A# 2	P			X	X	X			X										P				P
Manila Creek - A#2	P			X	X	X			X										P				P
Big Creek C	P			X	X	X			X								X		P				P
Covey Creek Refuse	P			X	X	X			X										P				P
Omar Drainage G2	P			X	X	X			X										P				P
Crooked Ck Refuse & Portals	P			X	X	X			X					X					P				P
Glms Br. (Tyree) LS	P			X	X	X			X										P				P
Galloway Mine Portal/Refuse	P			X	X	X			X										P				P
Newtown (Harmon) Drainage	P			X	X	X			X							X		X	P				P
Whitman Ck. (Williams) VO	P			X	X	X			X										P				P
Coal Branch (Cantrell)	P			X	X	X			X										P				P
Jordanville Tipple/Refuse	P		X						X										P				P
Heizer Creek A Maintenance	P			X	X	X			X					X		X			P				P
Orlando Mining Facility	P		X						X					X					P				P
Verdunville Drainage	P			X	X	X			X										P				P
Holden Portals	P			X	X	X			X										P				P
Mollner Subsidence	P			X					X										P				P
Smith Landslide	P		X	X	X	X			X								X		P/M				P/M
Lutz Vertical Opening	P			X	X	X			X										P/M				P/M
Swiger Mine Blowout	P			X	X	X			X							X			P/M				P/M

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Blair worn Subsidence	P			X						X													
Lake (Winkler) Phase II	P			X						X									P/M				
Preston County PSD #4	C			X						X								P/M					
Marsh Run Portals	C		X			X	X					X						P	P				P
Donnie Thorn HW	C		X	X		X	X					X						P	P				P
Vickers Branch Drainage	C		X	X		X	X					X						P	P				P
Morgan HW	C		X	X		X	X					X						P	P				P
Sugarcamp Run Burning Ref	C		X				X			X		X						P	P				P
Glen White-Trap Hill PSD	C								X									P	P				P
North Matewan Akers LS	C			X			X											P	P				P
Fairview Laurel Run Shaft	C			X		X	X					X						P	P				P
McGraws Shaft	C			X		X	X					X						P	P				P
Meadow Creek PSD	C																	P	P				P
Squires Creek (Moats) Portal and Refuse	C		X	X		X	X					X						P	P				P
Red Warrior Gob & Slide	C			X		X	X					X						P	P				P
Glen Alum Complex	C			X			X					X						P	P				P
West Columbe "B"	C		X	X		X	X											P	P				P
Milam Ridge	C		X	X		X	X											P	P				P
Carson One Special Rec	C			X		X	X				X							P	P				P
Preston Energy/Rockville/ Viking Coal Spec Rec	C		X	X		X	X											P	P				P
Branchland (Blankenship) Landslide	C			X		X	X											P	P				P
Coburns Creek Landslide	C		X			X	X											P	P				P
New Cumberland Mine Blowout	C			X		X	X											P	P				P
Whitehall Mine Fire	C			X			X											P	P				P
Sauls Run Landslide	C		X	X			X		X									P	P				P
Missouri Fork Landslide	C			X		X	X											P	P				P
Worthington (Hess) Landslide	C			X		X	X											P	P				P
Copen Road Landslide	C			X		X	X											P	P				P
Lynch Run Mine Blowout	C		X	X		X	X											P	P				P
Dans Branch (Dillon) Landslide	C			X		X	X											P	P				P

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.

Eric J. Coberly, P.E., Project Manager
 (Name, Title)

Eric J. Coberly, P.E., Project Manager
 (Printed Name and Title)

5088 Washington Street, W, Charleston, WV 25313
 (Address)

304-776-7473/304-776-6426
 (Phone Number) / (Fax Number)

ecoberly@elrobinson.com
 (email address)

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

E.L. Robinson Engineering
(Company)

 ERIC J. COBERLY PROJECT MANAGER
(Authorized Signature) (Representative Name, Title)

Eric J. Coberly, P.E., Project Manager
(Printed Name and Title of Authorized Representative)

September 10, 2018
(Date)

304-776-7473/304-776-6426
(Phone Number) (Fax Number)

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West Virginia Ethics Commission
Disclosure of Interested Parties to Contracts
(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: E.L. Robinson Engineering **Address:** 5088 Washington Street, W Charleston, WV

Name of Authorized Agent: Eric J. Coberly, P.E. **Address:** 5088 Washington Street, W Charleston, WV

Contract Number: DEP1900000003 **Contract Description:** Lake (Bell) Portals

Governmental agency awarding contract: State of West Virginia Purchasing Division

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.

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.

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:  Date Signed: 9/10/18

Notary Verification

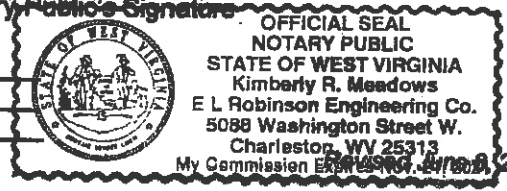
State of West Virginia, County of Kanawha

I, ERIC J. COBERLY, 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 10th day of September, 2018.


Notary Public's Signature

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



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: E.L. Robinson Engineering

Authorized Signature: _____

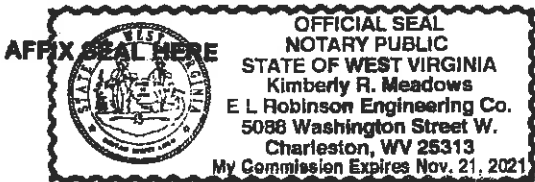
Date: 9/10/18

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 10 day of September, 2018.

My Commission expires November 21, 2021.



NOTARY PUBLIC

Kimberly R. Meadows

Purchasing Affidavit (Revised 01/19/2018)