December 8, 2010

**EXPRESSION OF INTEREST** 

### CARTRIGHT BRANCH REFUSE PILE DESIGN DEP15232

LOGAN COUNTY, WEST VIRGINIA



the Challenge. the Choice.

E.L. Robinson Engineering Co. 5088 Washington Street, West Charleston, WV 25313 Phone: (304) 776-7473 Fax: (304) 776-6426 www.elrobinson.com

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THE THE CHARLEST DIVISION STATE OF WV



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

### Request for Quotation DEP1523

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ADDRESS COMPLESPONDENCE TO ATTENHON OF CHUCK BOWMAN 104-558-2157

RFQ COPY TYPE NAME/ADDRESS HERE E.L. Robinson Engineering Co. 5088 Washington Street West Charleston, WV 25313

ENVIRONMENTAL PROTECTION DEPARTMENT OF OFFICE OF AML&R t 601 57TH STREET SE CHARLESTON, WV 25304

304-926-0499

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December 8, 2010

West Virginia Department of Environmental Protection Office of AML & R 601 57<sup>th</sup> Street Charleston, WV 25304

Attn: Eric J. Coberly, P.E., Chief

Re: Cartright Branch Refuse Pile Design

DEP15232

**Expression of Interest** 

Dear Mr. Coberly:

E. L. Robinson Engineering Co. (ELR) is pleased to submit this proposal in response to your request to perform professional engineering design services, and construction monitoring services associated with the design of the Cartright Branch Refuse Pile Design project located in Logan County.

We have completed plans and specifications for numerous reclamation and waterline projects for WVDEP/AML over twelve years. In addition, we have completed numerous projects with ODNR. We have descriptions of these projects in the attached proposal. Please note that the majority of staff that worked on these projects are still with ELR.

The ELR staff has combined experience in the design of more than 125 AML projects.

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

- A. Thirteen (13) registered professional engineers (civil or mining), two (2) geologists, two (2) Landscape architects, four (4) engineers in training as well as several CADD technicians that may be used on these teams.
- B. ELR Corporate experience in designing nearly fifty (50) abandoned mine land remediation projects. Personal experience on approximately one hundred sixty-eight (168) AML projects. This number does not include surveying/mapping/drilling projects.
- E. L. Robinson Engineering Co. has grown from 13 employees in 1996 to over 80 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.

We at E.L. Robinson Engineering Co. 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,

E. L. Robinson Engineering Co.

By:

Richard W. Watts, P.G.

Richard W. Walls

Project Manager



### **Table of Contents**

Executive SummaryPage 1
Project ApproachPage 2
Our Project Team
Our Capabilities
Previous Experience
CCQQAttachment B
Abandoned Mine Lands Reclamation ExperienceSection 12A
Soil AnalysisSection 12B
Hydrology and HydraulicsSection 12C
Aerial Photography and Contour MappingSection 12D
Key PersonnelSection 13
RPEMAttachment C
Purchasing Affidavit



### **Executive Summary**

For more than 10 years, E.L. Robinson Engineering Company 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 Co. fully understands the requirements for this project and is committed to giving the WVDEP/Office of Abandoned Mine Lands and Reclamation the time and attention that is necessary for the reclamation 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 Co. 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.

E.L. Robinson Engineering Co. has more than 50 professionals on staff and 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. E.L. Robinson Engineering Co. 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.

E.L. Robinson Engineering Co. 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 WVDEP/AML and Ohio DNR 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 issues.



### Project Approach

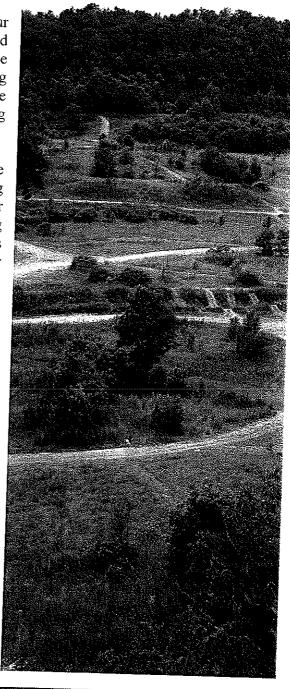
E.L. Robinson is familiar with the project area and the type of project for which you are seeking engineering services. We believe that we have a thorough understanding of the work to be provided to the WVDEP/AML for the subject reclamation project.

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
- Other services that may be required by the WVDEP/AML





### **Our Project Team**

Our firm has put together a project team that is experienced in the design and construction of mine reclamation projects and has the capacity to perform the project's scope in a timely and efficient manner.

Mr. Rich Watts, P.G. will be assigned as the Project Manager.

Mr. John Kelly, II, E.I. will be assigned the CADD designer and principal production person for the project. He has performed this role for numerous mine reclamation projects.

Mr. Timothy Cart, P.E., Mr. Randall Lackey, P.E. and Mr. Mark McGettigan, P.E. will be assigned as the Project Engineers.

Mr. James Rayburn, P.S. will be assigned to oversee all surveying and mapping activities.

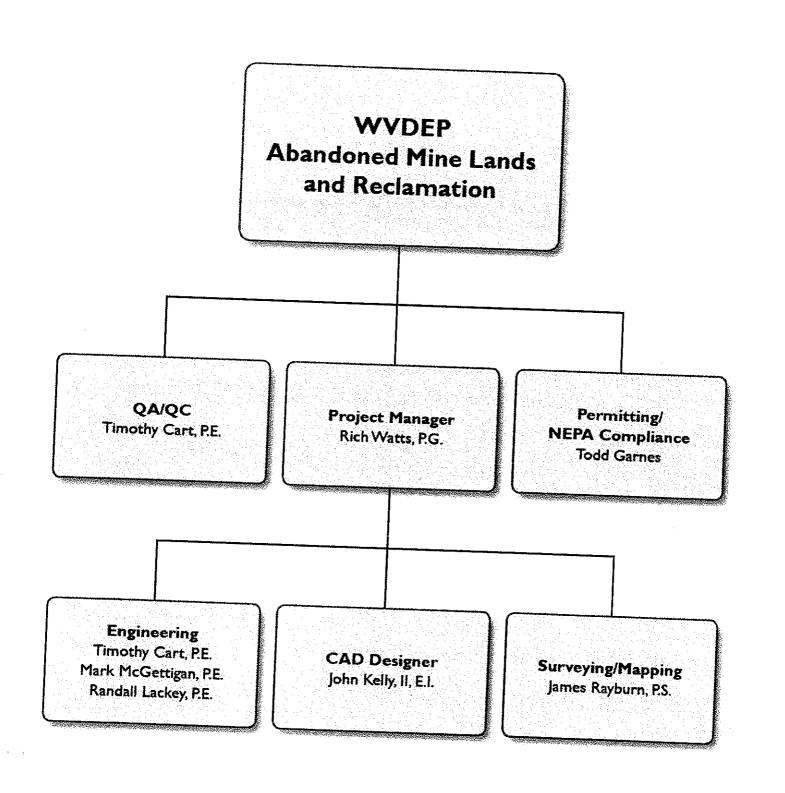
Our staff is well-qualified and experienced in related reclamation projects. They have the knowledge and capabilities to perform all of the tasks required for your project. In addition to your primary project team, other members of our organization may be called upon from time to time to provide their expertise and assistance to ensure this important project is completed on time and on budget.

Our team of construction inspectors, led by Ronnie Williams, offers years of experience with construction monitoring.

Also, our team of surveyors, managed by James Rayburn, P.S., provides the WVDEP/AML with the latest in technology and experience in surveying and mapping. By using GIS-based mapping and high-tech instrumentation, E.L. Robinson's survey team can evaluate any type of surface. Other services pertaining to surveying that our company specializes in are aerial photogrammetric consulting, hydrographic surveying, land surveying and GPS surveying.



# Our Project Team





#### **Our Capabilities**

Over the past 30 years, E.L. Robinson Engineering Co. 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-notched civil engineering firms in the region. Our offices are staffed with professionals experienced in AML reclamation mapping, permitting, design and construction monitoring projects with more than 50 employees, including 10 registered professional engineers, degreed design engineers, construction inspectors and a support team of administrative and technical personnel to assist the WVDEP/AML.

We are very familiar with the requirements of the permitting and regulatory agencies. This experience 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 cost-effective 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.





# **Previous Experience**

E.L. Robinson is well-qualified and experienced in mine reclamation projects. We are very familiar with the requirements of the project. 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 recent and past work on reclamation projects, including:

- Brownton (McCord) Landslide –2010
- Island Creek #18 Mine Complex –2010
- Keystone (Avery) Landslide and Portal –2010
- Jacob's Fork Complex –2008
- Rhodell Refuse and Portals –October 2008
- Gilmer B Sites 3-8 –2008
- Ohio DNR Emergency Reclamation 19 sites completed
- Toney Fork Landslide Emergency –2006
- North Matewan –2005
- Big Creek "C" Refuse –2004
- Charleston Romeo Landslide –2004
- Gooney Otter Refuse –2004
- Chapmanville (Gorby) Mine Blowout December 2003



WEST V. AML CONS  PROJECT NAME Cartright Branch Refuse Pile Design 1. FIRM NAME E.L. Robinson Engineering Co.	MEST VIRGINIA DEPARTMEN F R ML CONSULTANT CONFIDENTIAL OU  DATE (DAY, MONTH, YEAR)  Design December 8, 2010  2. HOME OFFICE BUSINESS 5088 Washington Street,	INVIRONMENTALIALIALIALIALIALIALIALIALIALIALIALIALIA	QUESTIONNAIRE Attachment "B" FEIN 55-0594633 3. FORMER FIRM NAME
. HOME OFFICE TELEPHONE 5. 197	ESTABLISHED (YEAR)	-π Ψ	Ψ
7. PRIMARY AML DESIGN OFFICE: ADDRESS/ TEI 5088 Washington Street, West 304-776-74. Charleston, WV 25313 8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS Ed Robinson, P.E. 304 776-7473 Ext 211	JEPHONE/ PER. 73/Tim Cart, OF FIRM	PERSON IN CHARGE/ NO. AML DESIGN PER rt, P.E./56 Staff in Charleston Area 8a. NAME, TITLE, & TELEPHONE N	YES X NO DESIGN PERSONNEL EACH OFFICE Leston Area TELEPHONE NUMBER - OTHER PRINCIPALS
9. PERSONNEL BY DISCIPLINE			
6 ADMINISTRATIVE ARCHITECTS BIOLOGIST 7 CADD OPERATORS CIVIL ENGINEERS 10 CIVIL ENGINEERS 11 CONSTRUCTION INSPECTORS 12 GEOLG 13 CONSTRUCTION INSPECTORS 14 HISTO 15 DRAFTSMEN 16 HYDRO	ECOLOGISTS ECONOMISTS ELECTRICAL ENGINEERS ENVIRONMENTALISTS ESTIMATORS GEOLOGISTS HISTORIANS	2 LANDSCAPE ARCHITECTS — MECHANICAL ENGINEERS MINING ENGINEERS — PHOTOGRAMMETRISTS PLANNERS: URBAN/REGIONAL SANITARY ENGINEERS 1 SOILS ENGINEERS WRITERS	S STRUCTURAL ENGINEERS 7 SURVEYORS — TRAFFIC ENGINEERS — OTHER  S6 TOTAL PERSONNEL
TOTAL NUMBER OF WV REGISTERED PROFESSIONAL ENGINEERS IN PRIMARY OFFICE: *RPEs other than Civil and Mining must provide supporting documentation supervise and perform this type of work.	STERED PROFESSIONAL ENGINEERS and Mining must provide supportise type of work.	NEERS IN PRIMARY OFFICE: 13 supporting documentation that	qualifies them to
10. HAS THIS JOINT-VENTURE WORKED TOGETHER	HER BEFORE? U YES	NO X This is	not applicable

11. O DE KEY CONSULTANTS/SUB-CONSULTANTS ANTICIPATED Questionnaire" for each if convis not on a second of convision of the second of th	LTANTS ANTICIPATED 3E USED. Attach "AML	Consultant Confidential
NAME AND ADDRESS:	AML.	
Novel Geo – Environmental (NGE) 806 B Street, St. Albans WV	Drilling	WORKED WITH BEFORE X VPS
NAME AND ADDRESS.		631 <b>A</b>
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		YES
NAME AND ADDRESS:	SPECIALTY:	NO WORKED WITH BEFORE
		YES
		NO

C. Is your firm experienced in hydrology and hydraulics?  X VES Description and Number of Projects: Ten (10) Projects Listed - See attached sheet  - NO  D. Does your firm produce its own Aerial Photography and Develop Contour Mapping?  X YES Description and Number of Projects: > 200 - in Firm History - 65 Recent Projects Listed  - NO  All ELE NV & OH AND Projects: since 2003 have been surveyed with ELE Surveying Staff  - NO  X YES Description and Number of Projects: Sixty-eight (88) Total  E. Is your firm experienced in Admestic waterline design? (Include any experience your firm has in X YES Description and Number of Projects: Sixty-eight (88) Total  E. NO  - NO  YES Description and Abatement Design?  Yearly Five (25) Non-AND Domestic Water Lines  E. NO  YES Description and Abatement Design?  Yearly Five (25) Non-AND Domestic Water Lines  E. NO  Non-AND Domestic Water Lines  Yearly Five (25) Non-AND Domestic Water Lines  NO  NO  NO  NO  NO  NO  NO  NO  NO  N
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13. PERSONAL HISTORY STATEMENT C data but keep to essentials) NAME & TITLE (Last, First, Middle lnt.)	OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FO	T DESIGN (Furnish complete
rd L. Robinson, President	YEARS OF AML DESIGN EXPERIENCE: YEARS OF AML RELATED DESIGN  11 25 ities	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE:
nson worke ility plans uisition. and coordin	of the WV Department of Highways for in property surveys, property title on all projects designed by this fiign projects.	or ten years where he reviewed le searches, aerial mapping and firm for the past 25 years.
Bachelor of Science 1969 Civil Engineeri Master of Science 1981 Civil Engineeri MEMBERSHIP IN PROFESSIONAL ORGANITAMECONS	bu bu	
American Society of Civil Engineers - Past Pamerican Council of Engineering Companies National Society of Professional Engineers 13. PERSONAL HISTORY STATEMENT OF PRINCIPALS NAME of MANE OF	st President WV 1975 Civil Engineering Registered in West Vir Professional Licensed Professional Licensed RESPONSIBLE FOR AML PRO	gar, State)  ginia and Kentucky Surveyor No. 1150  JECT DESIGN (Furnish complete data
<pre></pre>	YEARS OF AML DESIGN EXPERIENCE: VPape OF and DESIGN EXPERIENCE.	
w. wates, P.C	28	YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: 1
t Kesponsibil d as project agement, fiel tion writing, urface and de	geologist on more than ninety (90) abandoned mine land projects. Responsibilities draconnaissance, drilling coordination, laboratory testing and analysis, stability quantity determinations, cost estimates, pre-bid and pre-construction meetings. ep mine reclamation, subsidence, AMD treatment and waterline feasibility studies.	rojects. Responsibilities ing and analysis, stability e-construction meetings.
Seology Seography	salion)	
MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS Geological Society of America Association of Engineering Geologists	SATIONS   REGISTRATION (Type, Year, State)   Professional Geologist/1992/Virginia   Professional Geologist/1993/Kentucky	tate) /Virginia /Kentucky

13. PE. NAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATE. RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete NAME & TITLE (Last, First, Middle Int.)	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 Mr. McGettigan also has experience with surveying and equipment including; theodolites, levels, and total stations. EDUCATION (Degree, Year, Specialization)	ON al l		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; prepared design study reports; type, size and location reports and final plans on many of our Division of EDUCATION (Degree, Year, Specialization)	B.S. Civil Engineering/1999  MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  Professional Engineer WV
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STATEMENT OF PRINCIPALS AND ASSOCIATE. RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete sesentials)  YEARS OF AML DESIGN EXPERIENCE:  S  Responsibilities  STATEMENT PROJECT DESIGN (Furnish complete besign (Furnish com	viding CADD Design for mine reclamation projects on inspection services for landsides and subside of final reports.	T OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR	OF AML DESIGN EXPERIENCE: YEARS OF AMI EXPERIENCE:	yburn has experience in mine mapping and surveying, formulated short term and long range mining plans for all ation plans and systems which include precision pressure quality surveys and computer simulation of ventilation performed slope stability analysis and hydrology calculations, provides computer analysis for mining lizing "state of the art" electronic total stations and/or GPS (Satellite) equipment, he performs control burn has also performed surveying and mapping for large scale highway projects.	GRGANIZATIONS  REGISTRATION (Type, Year, State)  Professional Surveyor WV
13. PE. NAL HISTORY STATEMENT C data but keep to essentials) NAME & TITLE (Last, First, Middle Int.) J. Todd Garnes  Brief Explanation of Responsibil	Mr. Garnes experience surveying and provextrusions. He has provided constructions. Active mapping, mine research, and development EDUCATION (Degree, Year, Specialization) A.S. Architectural Design/ 1999 A.S. Computer Aided Drafting and Design/	13. PERSONAL HISTORY STATEMENT O but keep to essentials) NAME & TITLE (Last, First, Middle Int.)	las Rayburn, P.S.	Mr. Rayburn has experience in mir types of coal mining, designed mi ventilation plans and systems whi systems. He has performed slope stability applications, work with leases an By utilizing "state of the art" e surveys for aerial mapping and co Mr. Rayburn has also performed su EDUCATION (Degree, Year, Speciali	A.S. Mechanical Engineering, WVIT MEMBERSHIP IN PROFESSIONAL ORGANI

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(1-73), 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. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data He is also experienced in the YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: YEARS OF DOMESTIC WATERLINE DESIGN EXPERIENCE: In addition, PRINCIPALS AND ASSOCIATE. RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete 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 development of ROW plans, including deed plots and legal descriptions. His current duties include managing both water and wastewater design projects for ELR. Mr. LeRose is experienced in developing major highway and right of way plans; Bridge Construction Inspections; Drilling Operations; Groundwater Sampling/Monitoring; UST Removal/Replacement and Mine Permitting/Reclamation. Mr. Tilley has successfully completed numerous waterline design 30 Mr. Tilley has over 30 years experience in water and wastewater design as a Project Manager/Engineer. Mr. Tilley is a certified Water Plant Operator. Mr. Tilley has successfully completed numerous water. REGISTRATION (Type, Year, State) Year, State) YEARS OF AML RELATED DESIGN EXPERIENCE: YEARS OF EXPERIENCE Professional Engineer WV YEARS OF AML RELATED DESIGN EXPERIENCE: EXPERIENCE Professional Engineer WV Sanitary Engineering Virginia Tech, 1976 REGISTRATION (Type, 7 Ŋ YEARS OF YEARS OF AML DESIGN EXPERIENCE: YEARS OF AML DESIGN EXPERIENCE: Civil Engineering/WV Tech 1975; M.S. MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS EDUCATION (Degree, Year, Specialization) MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS EDUCATION (Degree, Year, Specialization) Brief Explanation of Responsibilities Brief Explanation of Responsibilities STATEMENT OF data but keep to essentials) NAME & TITLE (Last, First, Middle NAME & TITLE (Last, First, Middle B.S. Civil Engineering/1997 but keep to essentials) NAL HISTORY 다 퍼 Ray Tilley, P.E. Scott LeRose, Int.) B.S. Int.)

: FOR AML PROJECT DESIGN OF EXPERIENCE L RELATED DESIGN	of Responsibilities EXPERIENCE:	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 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 NAME & TITLE (last bivet widely)	arnor do bavado	Brian D. Morton, P.E.  2 EXPERIENCE: YEARS OF AML RELATED DESIGN EXPERIENCE: DESIGN EXPERIENCE: 1  2 1 1	Brief Explanation of Responsibilities	Mr. Morton has worked on waterline extension projects in Putnam and Kanawha County. He also has completed numerous waterline relocation projects involving the West Virginia Division of Highways	n has prepared signing and pavement mark and other drainage structures and highwa tions, bid documents, and has performed	ecialization)	CIVIL ENG		Professional Engineer WV
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13. PE NAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIANGE data but keep to essentials)  NAME & TITLE (Last, First, Middle  Erief Explanation of Responsibilities  Mr. Carney, Joseph T. P.E.  Brief Explanation of Responsibilities  Mr. Carney has extensive experience in design engineering, storm sewer, farinage studies, roadway, bridge design, hyd storm sewer, farinage studies, roadway, bridge design, hyd storm sewer, farinage studies, roadway, bridge design, hyd bedration (Degree, Year, Specialization)  MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATED NAME & TITLE (Last, First, Middle and Cary A., CADD  WORMAN & TITLE (Last, First, Middle are projects, Mark and is responsible for CADD design on AML projects, World, Drojects while employed at Ackenheil, and has wor EDUCATION (Degree, Year, Specialization)  MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS  MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS
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Į.	70 10 1	Provides CADD Design for site development, waterline and sewer extensions, and layout on AML Projects. Mr. Mayes has EDUCATION (Degree, Year, Specialization)	B.S. Industrial Technology 1997 WVU Tech A.S. Drafting and Design 1996 WVU Tech MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS REGISTRATION (Type, Year, State)	13. PERSONAL HISTORY STATEMENT OF PRINCIPALS AND ASSOCIATES RESPONSIBLE FOR AML PROJECT DESIGN (Furnish complete data NAME & TITLE (Last, First, Middle Int.)	기술	Brief Explanation of Responsibilities	Mr. Pratt has extensive experience as a Field Geologist, performing test boring over-sight, logging soil and core samples, and obtaining water levels. He has also performed many geotechnical soil tests in the laboratory. He is also EDUCATION (Degree, Year, Specialization)		MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS   REGISTRATION (Type, Year, State)	
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	CONSTRUCTION PERCENT COMPLETE	\$512,500	\$381,700		65	000		80 80	M 15	M 85	
THE DESIGNATED ENGINEER OF RECORD	NATURE OF YOUR FIRM'S ESTIMATED (SULVEYING, Mapping and		Surveying, Mapping and Design \$381	Surveying, Mapping and Design	Surveying, Mapping and		Design and Construction Management	Vo. U M	Construction Management \$2.3	Design and Construction Management \$5.0	TOTAL REPTMENDED CONCERNMENT
ON WHICH YOUR FIRM IS	AND NAME AND ADDRESS OF OWNER  ex McDowell County	WV)RD/2MT.cD		WVDEP/AML&R	WVDEP/AML&R			k Roberts ilbert	P.O. Box 188 Gilbert, WV Attn: John White	Lavalette PSD 5308 Route 152 C Lavalette, WV M	38:
PROTECT NAME TAND	Compl	Gordon 'C' Complex	ount	Newtown (Kinder) Portals Mingo County	Shinnston-Lumbperport Subsidence	on Cour	Holden Water System Upgrade Logan County	Gilbert Slabtown Waterline Externi	HOTSHOPP OTTER TO	Lavalette PSD Rt. 37 Waterline Extension	TOTAL NUMBER OF PROJECTS:

15. CL. JNT ACTIVITIE.	ON WHICH YOUR FIRM IS	THE DESIGNATED ENGINEER OF	RECORD	
I NAME, TYPE AND LOCATION Waterline	NAME AND ADE OWNER	NATURE OF YOUR FIRM'S RESPONSIBILITY	ESTIMATED CONSTRUCTION	PERCENT COMPLETE
	District	Design and Construction Management	\$6.0 M	85
Miller Mountain Water Extension, Webster County	Webster County EDA Webster Springs, WV	Design and Construction Management	\$3.0 M	80
PSD Jolo Water County	McDowell Public Service District	Design and Construction Management	\$4.0 M	85
Widen Water sion County Ridge/Sanderson	Birch River PSD	Design and Construction Management	\$4.0 M	85
Water Extension, Kanawha County		Design and Construction Management	\$2.5 M	85
Improvements	City of Williamson	Design and Construction Management	\$1.1 M	50
	eck PSD eck, WV	Design and Construction Management	\$2.1 M	0
OF PROJECTS:14	S:14	TOTAL ESTIMATI	TOTAL ESTIMATED CONSTRUCTION COSTS: \$	37.6 Million

YOUR FIRMS RESPONSIBILITY ESTIMATED CONSTRUCTION COST ENTIRE PROJECT 16. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS SERVING AS A SUB-CONSULTANT TO OTHERS ESTIMATED COMPLETION DATE NAME AND ADDRESS OF OWNER NATURE OF FIRMS RESPONSIBILITY PROJECT NAME, TYPE AND LOCATION

THIN YPE	LAST 5 YEARS ON WHICH YOUR FIRM NAME AND ADDRESS	WAS THE DESIGNATED ENGINEER OF RECORD	RD.	
Glen Roders Waterline	OF OWNER	00	YEAR	CONSTRICTED
Extension Wyoming County	WVDEP-AML 601 57th Street Charleston, WV 25304	\$1.2 M	2007	(YES OR NO) Yes
Guyandotte River Bridge I-64 Cabell County	WV Dept. of Transportation Engineering Division Charleston, WV 25301 Attn: Gregory Bailey	\$2.25 M	2006	Yes
Corridor H Davis-Bismark X347-H-64.85 00	WV Dept. of Transportation			
Tucker County WVDEP-Emergengy	Charleston, WV 25301 Attn: Gregory Bailey	M 0.0\$	2008	No
East Bank (Willis) Mine Blowout	WVDEP AML&R 601 57 <sup>th</sup> Street Charleston, WV 25304	₩ 8.0\$	2009	Yes
Cuiei Logan Recreational Center	WV State Parks			
	E	\$4.0 M	2007	Yes
h County	rac 10D PSD	\$2.5 M	2007	Yes
Gilmer B Sites 3-8 Gilmer County	WVDEP-AML&R 601 57th Street Charleston, WV 25304	\$675,000	2009	X 67
Upshur County Industrial part	Upshur County EDA			
		\$4.0 M	2009	Yes

PROJECT NAME, TYPE	CCT NAME, TYPE NAME AND ADDRESS ES	TIMATED CONCERNICE	. 1	IO UTHER FIRMS	(INDICATE PHASE
Appalachian Corridor D Blennerhassett	OF OWNER Sub to Michael Baker,	OF YOUR FIRM'S PORTION	YEAR	CONSTRUCTED (YES OR NO)	FIRM ASSOCIATED
Island Bridge X354-D-0.00 Appalachian Corridor u	Jr., Inc. Post Design Services	\$7,500,000	2008	Yes	Michael Baker, Jr., Inc.
6 100.40 lian Corridor	Sub to Michael Baker Jr., Surveying, ROW questionnaires, Hydraulic Studies	\$950,000	2008	Yes	Michael Baker, Jr., Inc.
o Bismark	Survey, Geotech & ROW Plans	\$9,000,000	2008	NO	Modjeski & Masters
Bridge S303-85-27.81 Boone County	יה אירו	\$1,000,000	2008	Yes	BDG
19. Use this space to qualifications to E. L. Robinson Eng mapping and constructory on the wor 20. The foregoing is a	provide any additional interform work for the Westineering Co. is committee uction monitoring service the offered by the WVDEP/All statement of facts	ormation or description firginia Abandoned Mine to the WVDEP/AML programin a timely and cost-ef program.	of resources su Lands Program. to provide pro ficient manner.	desi	firm's gn, surveying and plan relies
F4 5	Richard W. Walts	Title: PROJECT MANAGER		Date: December 8, 2010	
NOTE: THIS DOCUMENT WILL	THIS DOCUMENT WITT BECOME TOOL				



Project:

Jacob's Fork Complex

Year:

Boone County, WV

2008-2009

Client:

WVDEP-AML Charleston, WV

Description:

Field surveying and mapping, subsurface investigation, design

work for mine seals, drainage, and reclamation.

Project:

Rhodell Refuse & Portals

Year:

Wyoming County, WV 2008

Client:

WVDEP-AML

Description:

Charleston, WV

Performed survey, drilling, design for refuse and spoil regarding

and mine drainage control.

Project:

Gilmer B Site 3.8 Gilmer County, WV

Year:

2008

Client:

WVDEP-AML

Description:

Charleston, WV Performed survey, drilling, design for refuse and spoil regarding

and mine drainage control.

Project:

Gouge Landslide Emergency

Year:

Scott Town, OH September 2007

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed site survey, drilling and prepared landslide abatement

design.

Project:

**Brown Landslide Emergency** 

Year:

Rayland, OH August 2007

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed site survey and prepared landslide abatement design.



Project:

**Rodgers Subsidence Emergency** 

Year:

Wellston, OH January 2007

Client:

ODNR-AML

Columbus, OH

1855 Fountain Square

Description:

Performed site survey and prepared subsidence abatement

design.

Project:

McAdams Subsidence Emergency

Year:

Stark County, OH April 2006

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed investigation and prepared report of findings.

Project:

Athens Rt. 13 Refuse Fire Emergency

Year:

Athens County, OH March 2006

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed site survey, prepared abatement design and monitored

on site construction for fire extinguishment.

Project:

**Toney Fork Landslide Emergency** 

Year:

Boone County, WV

Client:

February 2006 WVDEP-AML

Charleston, WV

Description:

Performed site survey, drilling and prepared plans and

specifications to stabilize an emergency landslide area.



Project:

Cox Refuse Fire Emergency

Year:

Gallia County, OH December 2005

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed abatement design for fire extinguishment.

Project:

**Lavender Refuse Fire Emergency** 

Year:

Meigs County, OH November 2005

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed abatement plan and monitored construction.

Project:

**Goetz Subsidence Emergency** 

Year:

Columbiana County, OH November 2005

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed investigation and prepared report of findings.

Project:

Adkins Landslide Emergency

Year:

Gallia County, OH December 2005

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

**Description:** 

Performed surveying, drilling, landslide abatement and

construction monitoring.

Project:

North Matewan (Sipple Drainage)

Year:

Mingo County, WV February 2005

Client:

WVDEP-AML

Description:

Performed surveying, drilling and design for drainage project

abatement.



Project:

Phalen Landslide Emergency

Year:

Martins Ferry, OH January 2005

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed site surveying and landslide abatement design.

Project:

**Baisden Subsidence Emergency** 

Year:

Jackson, OH January 2005

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed drilling to develop subsidence abatement solutions.

Project:

Parsons Landslide Emergency

Year:

New Philadelphia, OH December 2004

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed site review and report concerning landslides relation

to mining and potential solutions.

Project:

Treadway Landslide Emergency

Year:

Rayland, OH October 2004

Client:

ODNR-AML

1855 Fountain Square Columbus, OH

Description:

Performed site surveying, drilling and landslide abatement

design.

Project:

Big Creek "C" Refuse Logan County, WV

Year:

July 2004

Client:

WVDEP-AML

Description:

Performed surveying and drilling for design.



Project:

Imboden Landslide Emergency

Year:

Rutland, OH June 2004

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed drilling and surveying to develop landslide abatement

solutions and cost estimates.

Project:

**Titus Road Landslide Emergency** 

Year:

Rutland, OH June 2004

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed surveying, drilling and prepared plans and

specifications to stabilize and emergency landslide area.

Project:

Jefferson County Road 26 Landslide Emergency

Year:

Winterville, OH May 2004

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed surveying, drilling and prepared plans and

specifications to stabilize and emergency landslide area.

Project:

Charleston Romeo Landslide

Kanawha County, WV

Year:

May 2004

Client:

WVDEP-AML

Description:

Performed surveying, drilling and design of landslide abatement.



Project:

Roush Landslide Emergency

Year:

Pomeroy, OH March 2004

Client:

ODNR-AML

1855 Fountain Square

**Description:** 

Columbus, OH Prepared plans and specifications to stabilize an emergency

landslide area.

Project:

Lewis Landslide Emergency

Year:

Pomeroy, OH March 2004

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Performed surveying, drilling, prepared plans and specifications

to stabilize an emergency landslide area, and provided

construction monitoring.

Project:

Moran Subsidence

Year:

Clinton, OH January 2004

Client:

ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Prepared plans and specifications to stabilize an emergency

subsidence area.

Project:

Ron Bobar Subsidence

Year:

Flushing, OH

Client:

January 2004 ODNR-AML

1855 Fountain Square

Columbus, OH

Description:

Investigation and report of an emergency subsidence area.



Project:

**Gooney Otter Refuse** 

Year:

Wyoming County, WV

Client:

January 2004

WVDEP-AML

Description:

Performed surveying, drilling and site design for refuse

regarding project.

Project:

Chapmanville (Gorby) Mine Blowout

Year:

Logan County, WV

Client:

December 2003 WVDEP-AML

Description:

Performed surveying, drilling and design of landslide regrading

and retaining wall design.

Project:

Tuppers Creek (Layne) Landslide

Kanawha County, WV

Year:

July 2003

Client:

WVDEP-AML

Description:

Performed surveying, drilling and design of landslide abatement.

Project:

Maidsville (Tennant) Landslide

Year:

Monongalia County, WV

February 2003

Client:

WVDEP-AML

Description:

Performed surveying, drilling and design of landslide abatement.

Project:

Whittington Hill (Walker Landslide)

Year:

Kanawha County, WV

Client:

June 2002 WVDEP-AML

Description:

Performed surveying, drilling and design for an emergency

landslide.



Project:

Minden Refuse Pile Reclamation Project

Year:

Fayette County, WV September 2001

Client:

WVDEP-AML

Description:

Performed surveying and design for emergency project to

upgrade drainage control.

Project:

Jeffrey Mine Complex Reclamation Project

Boone County, WV

Year: Client:

July 2001 WVDEP-AML

Description:

Performed surveying and design regrading refuse.

Project:

**Hot Coal Reclamation Project** 

Year:

Raleign County, WV October 2000

Client:

WVDEP-AML Charleston, WV

Description:

Performed surveying and design for regrading refuse.

Project:

Bull Run #27

Year:

Preston County, WV

October 2000

Client:

WVDEP-AML

**Description:** 

Performed surveying and design for regrading refuse.

Project:

Rich Fork (Thaxton) Landslide

Kanawha County, WV

Year:

July 2003

Client:

WVDEP-AML

Description:

Performed surveying, drilling and design of landslide abatement.

Project:

Maidsville (Tennant) Landslide

Year:

Monongalia County, WV

Client:

February 2003

Description:

WVDEP-AML Performed surveying, drilling and design of landslide abatement.



# 12A Abandoned Mine Land Reclamation Experience

Project:

Whittington Hill (Walker Landslide)

Year:

Kanawha County, WV

Client:

June 2002 WVDEP-AML

Description:

Performed surveying, drilling and design for an emergency

landslide.

Project:

Minden Refuse Pile Reclamation Project

Year:

Fayette County, WV September 2001

Client:

WVDEP-AML

Description:

Performed surveying and design for emergency project to

upgrade drainage control.

Project:

Jeffrey Mine Complex Reclamation Project

Year:

Boone County, WV July 2001

Client:

WVDEP-AML

Description:

Performed surveying and design regrading refuse.

Project:

**Hot Coal Reclamation Project** 

Raleign County, WV

Year:

October 2000

Client:

WVDEP-AML Charleston, WV

Description:

Performed surveying and design for regrading refuse.

Project:

Bull Run #27

Preston County, WV

Year: Client:

October 2000

WVDEP-AML

Description:

Performed surveying and design for regrading refuse.



# 12A Abandoned Mine Land Reclamation Experience

Project:

Riffe Branch Impoundment

Year:

Fayette County, WV

Client:

June 2000 WVDEP-AML

Description:

Performed surveying and design for regrading refuse and

drainage control.

Project:

Ven's Run Landslide

Year:

Harrison County, WV

Client:

September 1999 WVDEP-AML

Description:

Performed surveying and design for regraded landslide area.

Project:

Fickey Run

Year:

Preston County, WV

Client:

September 1999 WVDEP-AML

Description:

Performed surveying and design for refuse and spoil regrading

and drainage control.

Project:

Bull Run #35

Year:

July 1999

Client:

WVDEP-AML

Description:

Performed surveying and design for refuse and spoil regrading.

**Project:** 

Securro Mine Drainage Site 1 & 2

Year:

Fairmont, WV

Client:

July 1998 WVDEP-AML

Description:

Performed surveying and design for mine drainage system.

Project:

Brown's Creek #10 Reclamation Project

Year: Client:

1997

WVDEP-AML

Description:

Performed surveying and design for refuse regrading and

mine seal installation.



# 12B Soil Analysis Geotechnical Experience

# US-52 Kermit By-Pass

Solicited Bids from core boring contractors and performed core borings for highway and bridges for a planned four-lane highway in Mingo County West Virginia.

Designed cuts performed slope stability analysis and settlement analysis for several major fill areas, designed foundations for a total of six bridges.

# Meadowbrook Road

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a planned four-lane highway in Harrison County West Virginia.

Designed cuts performed slope stability analysis and settlement analysis for several major fill areas, designed foundations for a bridge spanning the West Fork River.

# **US 60 Coal River Bridge**

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge, which spans the Coal River in Kanawha County West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the existing fill slopes.

# US 60 CSX-Overpass Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans mainline tracks of the CSX Railroad in Kanawha County West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the existing fill slopes.

# Indian Creek Bridge Boone County West Virginia

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans the Coal River in Boone County West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.

# Camp Creek Bridge - Lavalette

Layout and directed core boring operations using WVDOH forces for a replacement bridge on US 152 in Wayne County West Virginia. Prepared Geotechnical report with recommended foundation alternatives.



# 12B Soil Analysis Geotechnical Experience

# Jackson Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans Middle Island Creek in Tyler County West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.

### Tallman Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans Middle Island Creek in Tyler County West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.

# Corridor H-Section 7 (Foreman to Moorefield)

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a planned four-lane highway in Hardy County West Virginia.

Designed cuts performed slope stability analysis and settlement analysis for several major fill areas, designed foundations for a bridge spanning the South Branch of Potomac River.

# Corridor H-Section 12 Section 01(Davis to Bismarck)

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a planned four-lane highway in Tucker/Grant Counties West Virginia.

# Corridor H-Section 12 Section 03 (Davis to Bismarck)

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a planned four-lane highway in Tucker/Grant County West Virginia.

Designed cuts performed slope stability analysis and settlement analysis for several major fill areas, designed foundations for a bridge spanning the West Fork River.

# I-79 Lodgeville Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge and road-widening project. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.



# 12B Soil Analysis Geotechnical Experience

# 1-79 Simpson Creek Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge and road-widening project. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill.

# I-79 Meadowbrook Road Over Pass

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge and road-widening project. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill.

# Ripley Town Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge that spans Mill Creek in Jackson County West Virginia. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill slopes.

# Ripley Route 21 Road Widening

Performed slope stability analysis of a landslide area and designed a method to stabilize the area so the existing roadway could be widened. Developed Plans and specifications, which were included in the bid, package for the road-widening project.

# I-64 Cross Roads Overpass Bridge

Solicited Bids from core boring contractors and performed core borings for highway and bridge for a replacement for a bridge and road-widening project. Prepared geotechnical report with recommended foundations and performed slope stability analysis of the proposed fill.

# I-79 Left Hand Fork Bridge

Reviewed existing core boring data, and performed slope stability analysis on the existing bridge abutment that had moved. Reviewed data from slope inclinometers and design pile lagging and rock buttress to stabilize the embankment.



Project:

Blennerhassett Island Bridge Over Ohio River

Year:

1999-2003

Client:

Michael Baker Jr., Inc.

5088 Washington Street, West

Charleston, WV 25313

Contact:

Pi Amin, P.E.

Vice President Michael Baker Jr, Inc. (Southwest Region)

304-769-0821

Description:

Prepared an analysis of the hydraulic impact of the proposed bridge on the Ohio River flow, and prepared an appropriate hydraulic report. The analysis utilized HEC-RAS and as a part of the hydraulic report, a scour analysis was performed. E. L. Robinson Engineering Co. developed a computer model of the Ohio River using hydrographic survey mapping

provided by our survey group.

Two - Dimensional Hydraulic was also developed to model complex flows for various bridge configurations and to provide more accurate predictions of hydraulic behavior anticipated in the area. The 2-D and 3-D models allow derivation of design details and design analyses and provide more accurate simulations of scour hole geometry.

Project:

**US 52 Mainline Bridge** 

Year:

KY 40 Bridge/Kermit Bypass over Marrowbone Creek 2000

Client:

West Virginia Department of Transportation

Division of Highways

Building 5

1900 Kanawha Blvd. East Charleston, WV 25305

Contact:

James Sothen, P.E., Director, Engineering Division

304-558-0501

Description:

Prepared an analysis of the hydraulic impact of the Kermit Bypass Project over Marrowbone Creek and a partial relocation of the creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared

using the USACE 1-D HEC-RAS program.



Project:

Bridge No. 2922.1 NB & SB

I-79 Over Left Hand Creek & US 119

Year:

2000

Client:

West Virginia Department of Transportation

Division of Highways

Building 5

1900 Kanawha Blvd. East Charleston, WV 25305

Contact:

James Sothen, P.E., Director, Engineering Division

304-558-0501

Description:

Prepared an analysis of the hydraulic impact of the placement of a retaining wall for slope protection of the Left Hand Fork Bridge over Left Hand Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program,

ELR also prepared Section 404 permitting documents outlining the effects a temporary cofferdam, which would be used during the construction phase, would have on the outlying areas upstream of the projects.

Project:

Bridge No. 2448.1 - Simpson Creek Bridge

I-79 Over Simpson Creek

Year:

2000

Client:

West Virginia Department of Transportation

Division of Highways

Building 5

1900 Kanawha Blvd. East Charleston, WV 25305

Contact:

James Sothen, P.E., Director, Engineering Division

304-558-0501

Description:

Prepared an analysis of the hydraulic impact of the widening of the Simpson Creek Bridge over Simpson Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program.

ELR also prepared Section 404 permitting documents outlining the effects temporary cofferdams, which would be used during the construction phase, would have on the outlying areas upstream of the projects.



Project:

Bridge No. 10059 - Ripley Town Bridge

US 33 Over Mill Creek

Year:

1999

Client:

West Virginia Department of Transportation

Division of Highways

Building 5

1900 Kanawha Blvd. East Charleston, WV 25305

Contact:

James Sothen, P.E., Director, Engineering Division

304-558-0501

Description:

Prepared an analysis of the hydraulic impact of the replacement Ripley Town Bridge over Mill Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS program. ELR also prepared Section 404 permitting documents outlining the effects temporary causeways, which would be used during the construction phase, would have on the outlying areas upstream of the

projects.

Project:

Bridge No. 4732 – Jackson Bridge

WV 18 Over Point Pleasant Creek

Year:

1999

Client:

West Virginia Department of Transportation

Division of Highways

Office of the District Engineer, District 6

903 3rd Street

Moundsville, WV 26041

Contact:

Daniel W. Sikora, P.E., District Engineer

304-843-4008

Description:

Prepared an analysis of the hydraulic impact of the replacement Jackson Bridge over Point Pleasant Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-

D HEC-RAS program.



Project:

Bridge No. 4636 – Indian Creek Bridge

CR 3/25 Over Big Coal River

Year:

1999

Client:

West Virginia Department of Transportation

Division of Highways

Office of the District Engineer, District 1

1334 Smith Street Charleston, WV 25301

Contact:

John W. Dawson, P.E., District Engineer

304-558-3001

Description:

Prepared an analysis of the hydraulic impact of the Indian Creek Replacement Bridge over the Big Coal River and prepared the appropriate hydraulic and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the

USACE 1-D HEC-2 program and the FHWA WSPRO program.

Project:

Bridge No. 4769 – Tallman Bridge

CR 24 Over Middle Island Creek

Year:

1999

Client:

West Virginia Department of Transportation

Division of Highways

Office of the District Engineer, District 6

904 3rd Street

Moundsville, WV 26041

Client:

Daniel W. Sikora, P.E., District Engineer

304-843-4008

Description:

Prepared an analysis of the hydraulic impact of the replacement Tallman Bridge over Middle Island Creek and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-RAS

program.



Project:

Bridge No. 10058 - Meadowbrook Road Bridge

CR 24 Over West Fork River

Year:

1999

Client:

West Virginia Department of Transportation

Division of Highways

Building 5

1900 Kanawha Blvd. East Charleston, WV 25305

Contact:

James Sothen, P.E., Director, Engineering Division

304-558-0501

Description:

Prepared an analysis of the hydraulic impact of the new Meadowbrook Road Bridge over the West Fork River and prepared the appropriate hydraulics and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process and the Harrison County Flood Insurance Study model of the West Fork River was also used. Computer modeling was prepared

using the USACE 1-D HEC-RAS program.

Prepared Section 404 permitting documents outlining the effects temporary sheet piling, which would be used during the construction phase, would have on the outlying areas upstream of the projects.

Project:

Bridge No. 4426 - Lower Gassaway Bridge

WV 4 Over Elk River

Year:

1999

Client:

West Virginia Department of Transportation

Division of Highways

Building 5

1900 Kanawha Blvd. East Charleston, WV 25305

Contact:

James Sothen, P.E., Director, Engineering Division

304-558-0501

Description:

Prepared an analysis of the hydraulic impact of the Lower Gassaway Replacement Bridge over the Elk River and prepared the appropriate hydraulic and scour reports. E. L. Robinson Engineering's survey unit developed the cross sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-

D HEC-2 program and the FHWA WSPRO program.



Project:

Bridge No. 4574 - Camp Creek Bridge

WV 52 Over Camp Creek

Year:

1998

Client:

West Virginia Department of Transportation

Division of Highways

Office of the District Engineer, District 2

P.O. Box 880

Huntington, WV 25712

Contact:

J. Wilson Braley, P.E., District Engineer

304-528-5625

Description:

Prepared analyses of the hydraulic impact of the Camp Creek Bridge over Camp Creek and prepared the appropriate hydraulic and scour reports. E. L. Robinson Engineering's survey unit developed the cross

sections and mapping that were utilized in the analysis process. Computer modeling was prepared using the USACE 1-D HEC-2

program and the FHWA WSPRO program.



# 12D Aerial Photography and Contour Mapping Experience

E.L. Robinson Engineering Co. 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, E.L. Robinson Engineering Co. 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



# 12D Aerial Photography and Contour Mapping Experience

E.L. Robinson Engineering Co. has completed the preliminary mapping, within the past five years, for West Virginia Department of Environmental Protection for the projects listed below:

# 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

### <u>2001</u>

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, (COGS),
1981

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

### Registrations

Registered Professional Engineer in West Virginia, Kentucky, Ohio, Pennsylvania, North Carolina, South Carolina, Virginia, Georgia, Maryland and Colorado.

Registered Professional Surveyor in West Virginia.

## Professional Memberships

- American Society of Civil Engineers
- National Society of Professional Engineers

# <u>Professional Experience</u>

Mr. Robinson founded E. L. Robinson Engineering Co. in 1978 with four employees. Initially the firm provided land surveying and land development services.

Under his leadership, E. L. Robinson has entered the new millennium as a multidisciplined professional services firm that



utilizes the latest technology in the design of highways, bridges, structures, environmental, civil, and geotechnical projects as well as global position satellite surveying, right-ofway, construction inspection and architectural services.

The firm now employs more than 90 engineers, architects, surveyors and support personnel and has been converted to an employee owned company through an Employee Stock Ownership Plan (ESOP).

# Representative Projects

Engineering Review of the following projects:

- US Route 52 Kermit Bypass: This project consisted of 2.5 miles of four-lane divided highway, 3,000 LF of four-lane access road design, two 4-ramp intersections, one set of twin structures, one single bridge, and 2,900 LF of stream relocation, all of which resulted in 10 million cubic yards of excavation and an estimated total construction cost of \$88 million.
- Corridor H Davis to Bismark: This project consisted of 1.75 miles of four-lane divided highway, one bridge, two at-





grade intersections, and a  $6' \times 6'$  concrete box culvert. This project has an estimated total construction cost of \$9 million.

- Corridor H Foreman to Moorefield:
   This project consisted of 5 miles of four-lane divided highway, almost 3 miles of access road design, a truck escape ramp, one set of twin structures, one single bridge, a box culvert, and naturalized stream design. This project resulted in 10 million cubic yards of excavation and an estimated construction cost of \$75 million.
- CAMC 33<sup>rd</sup> Street Relocation: Engineering design and construction management for the relocation of 33<sup>rd</sup> street and site development for a five story clinical teaching facility in Charleston, WV.

### Offices Held

- Current Member of West Virginia University Board of Governors
- Current Chairman of WVUIT Advisory Board
- President of West Virginia Council of Engineering Companies
- 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

- 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**

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





# Timothy B. Cart, P.E., P.S. Project Engineer

### **Education**

B.S. Civil Engineering West Virginia University, 1981

### Registrations

Registered Professional Engineer in West Virginia and Ohio

Registered Professional Surveyor in West Virginia

# Professional Memberships

American Society of Civil Engineers

# <u>Professional Experience</u>

Mr. Cart has over 25 years of experience in providing consulting engineering services. Clients served have included Industrial, Public and Private Institutions and State and Federal Agencies.

Mr. Cart has served as Project Engineer on numerous geotechnical investigations over the years. These projects have included highways, bridges, industrial sites and private development.

He has designed numerous waterline extensions and sewer collection systems. These extensions have included providing service to many residential as well as industrial customers. The sewer collection systems have included design of systems to collect sewage from residential and industrial sites. Mr. Cart served as a project



engineer on several major waste water treatment plant upgrades for industrial clients in the Kanawha Valley. He has designed several plants to serve industrial as well.

Mr. Cart has performed over 100 Abandoned Mine Land Reclamations projects throughout Appalachia. These projects have been mainly in Ohio, West Virginia and Eastern Kentucky. These projects have involved draining flooded mine workings, support of ground experiencing or subject to Mine subsidence and the stabilization of landslides.

Mr. Cart has designed numerous retention and retaining ponds for sites. These designs have involved the determination of storm runoff and design of structures to safely retain and pass the required storm peak flows.

His experience includes permitting activities for projects which have included:

- Railroad Occupancy Permits for Utilities
- NPDES Permits for Industrial and Public Wastewater Facilities
- Highway Permits for Utility Occupancy and Access Road Tie Ins
- Health Department Permits for Water and Sewer Projects





- US Corps of Engineers Permits Nationwide and Individual
- West Virginia Public Lands Permits

Mr. Cart has recently been involved in the design of a 100 acre Industrial Site and 8 acre Industrial/Commercial Site in Mingo County. These projects are currently under construction and are located near Appalachian US 119 Corridor G.





## Richard W. Watts

Project Manager/Geologist

### Education

B.S.in Geology, Marshall University, 1977M.S.in Geography, Marshall University, 1994

# Professional Registrations

Registered Professional Geologist, Kentucky, 1993, No.159Certified Professional Geologist, Virginia, 1992, No.856

# Professional Memberships

Geological Society of America Association of Engineering Geologists

### Teaching Experience

Instructor, 1998 - Marshall University Engineering Geology Program - Soil and Rock Mechanics

### Professional Experience

Mr. Watts has more than 31 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, land reclamation, forensic damage investigations, hydrogeology and the coal industry.

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 the analysis of the stability of 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.

# AML and Coal Industry Projects:

Work on more than 50 Abandoned Mine Land Reclamation projects, including:

- Mine subsidence, refuse piles and draining mine portals.
- Coal seam mineability studies.
- Coal refuse embankment and slurry pond design.
- Coal permitting, exploration and drill log correlations.
- Roof and floor studies and pillar strength evaluations.





# John R. Kelly, III

Engineer Intern

### Education

B.S. Civil Engineering West Virginia University, 1998

### Computer Skills

AutoCAD, Microstation, COM624-P, Inroads, Hec-Ras, and ELRSoil

# Professional Memberships

American Society of Civil Engineers

### Professional Experience

Mr. Kelly has performed layout and inspection of core drilling operations for bridges and roadway projects. He has also designed numerous mine reclamation projects as well as assisted in completion of water feasibility studies.

Mr. Kelly has performed construction inspections of waste water treatment facilities and has experience with roadway design, design of foundations, and retaining walls.



### Representative Projects

Mr. Kelly has designed cut slopes for large scale roadway projects such as:

- Kermit Bypass, Mingo County, WV
- Meadowbrook Road, Harrison County, WV
- US-35, Mason County, WV
- Corridor H, Section 7, Hardy County, WV





# James T. Rayburn, P.S. Chief Surveyor

## **Education**

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

### Registrations

Registered Professional Surveyor in West Virginia

# 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.



# 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 în Ĝeodetic Control Šurveys, 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 Board 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.

- 164/US 35 (WVDOT) 164 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 164 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 33<sup>rd</sup> Street Relocation and Building Expansion, Charleston, WV: Lead Surveyor for construction layout surveys for 33<sup>rd</sup> 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.





# Randall L. Lackey, P.E.

Project Engineer

## Education

B.S. Civil Engineering West Virginia University Institute of Technology, 1999

### Registrations

Registered Professional Engineer in West Virginia, Ohio and Kentucky

# Professional Memberships

- American Society of Civil Engineers
- Society of American Military Engineers

### Computer Skills

C++, AutoCAD, MathCAD, Microstation, MS Excel, MS Word, MS Project, MSPowerPoint, Windows, MDX, MERLIN, BRASS Systems, SIMON, HEC-RAS, RC Pier, and HY8

### Professional Experience

Prior to joining E.L. Robinson Engineering Co., Mr. Lackey worked with the WV Division of Highways as an Engineering Co-op Technician. As part of his co-op experiences, he performed calculations for steel, flowrate and roadway. He performed roadway and guardrail design and construction inspection for bridge and roadway projects.



# Representative Projects

Mr. Lackey has been intricately involved in the hydraulic design process of the Blennerhassett Island Bridge Project, which will connect West Virginia to Ohio as well as span the Ohio River and Blennerhassett Island. Included in this project are the following: Preparation of flood plain analysis for existing, temporary, and various post construction conditions, scour analysis using FHWA approved publications, analyzing the affects that debris flow will have on the bridge as well as Blennerhassett Island, and studying the potential for lateral channel migration and understanding the affects the migration would have on the design on the bridge substructure.

Mr. Lackey has also been involved with the hydraulic design process of the Corridor H South Branch of the Potomac River Bridge. Included in this project are the following: Preparation of flood plain analysis for existing, temporary, and various post construction conditions, scour analysis using FHWA approved publications, analyzing the affects that debris flow will have on the bridge, studying the affects the proposed conditions





will have on the Town of Moorefield, WV flood level, and studying the potential for lateral channel migration and understanding the affects the migration would have on the design on the bridge substructure.

Mr. Lackey has also performed hydraulics and scour computations for Ripley Town Bridge, Jackson Bridge, Beaver Creek Bridge, Walnut Bottom Bridge, Tallman Bridge, Meadowbrook Road Bridge, Simpson Creek Bridge, Kermit Bypass Bridges and culverts, Left Hand Fork Bridge, and Corridor H Bridges over Walnut Bottom Run and an unnamed tributary.

Mr. Lackey has prepared Section 404 permitting analysis and paperwork for Ripley Town Bridge, Simpson Creek Bridge, Meadowbrook Road Bridge, and the Left Hand Fork Bridge. Along with this work, Mr. Lackey has prepared CLOMR analysis and documentation for Horseshoe Village Subdivision and for The Ohio State University Medical Center's two proposed bridges that connect the University with OH SR 314 over the Olentangy River.

Mr. Lackey has 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 E.L. Robinson's Division of Highways projects.





# Mark Allen McGettigan, PE, 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 Memberships

American Society of Civil Engineers

# Professional Experience

Successfully worked on and managed numerous Phase I and II ground water quality investigations and feasibility studies for the West Virginia Department of Environmental Protection.

Mr. McGettigan has taken several large water and wastewater projects from the initial development phase through the construction phase. This includes writing the preliminary engineering report, developing funding scenarios, designing the system, developing the plans and specifications, developing the bid documents/overseeing the bid process and managing the construction inspection.



Developed specifications and managed construction inspection for land development and utility construction projects.

# Representative Projects

Mr. McGettigan has been the design engineer on the following projects:

- Lavalette Public Service District's U.S. Route 52 Waterline Extension Project.
- Lavalette Public Service District's Crockett and Millers Fork Waterline Extension Project.
- Lavalette Public Service District's State Route 37 Waterline Extension Project.
- Crum Public Service District's Mill Creek Waterline Extension Project.



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RFQ No. DEP15232

# STATE OF WEST VIRGINIA Purchasing Division

# **PURCHASING AFFIDAVIT**

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

### DEFINITIONS:

WITNESS THE FOLLOWING SIGNATURE

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

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

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

Under penalty of law for false swearing (West Virginia Code §81-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

# Vendor's Name: E.L. Robinson Engineering Co. Authorized Signature: Pavel Description Date: 12-6-16 State of West Virginia County of Kaunuha, to-wit: Taken, subscribed, and sworn to before me this day of December, 2010. My Commission expires November December, 2011. West Official Seal Notary Public State of West Virginia KIMBERLY R. MEADOWS E.L. ROBINSON EVENTAGEN WEST VIRGINIA KIMBERLY R. MEADOWS E.L. ROBINSON EVENTAGEN WEST CHARLESTON, W. 25313 My commission expires Nov. 21, 2011