



# South Charleston Boat Ramp Improvements

for the West Virginia Division  
of Natural Resources -  
Parks and Recreation



## Expression of Interest

CEOI DNR 19000009  
SUBMITTED APRIL 30, 2019



**E.L. ROBINSON**  
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WV Department of Administration - Purchasing Division  
ATTN: Ms. Brittany E. Ingraham  
2019 Washington Street, East  
Charleston, WV 25305

**Re: Expression of Interest for A/E Services for the South Charleston Boat Ramp Improvements**

Dear Ms. Ingraham:

E.L. Robinson Engineering's (ELR) design professionals have been helping West Virginia plan and develop their communities for over 40 years. ELR's team of engineers, landscape architects and planners have completed numerous boat launch facilities, riverfront developments, and recreational master plans all across West Virginia, including: Stonewall Jackson Resort State Park Pedestrian Bridge; Little Coal River Boat Ramp; Kanawha Falls Public Access; and many other trails, greenways and recreation projects in communities across West Virginia and the surrounding States.

We have also provided planning and design for many projects in South Charleston and Kanawha County. In 2011 E.L. Robinson prepared a Bicycle and Pedestrian Master Plan for the City of South Charleston. Members of ELR were also part of the design teams that prepared construction plans for the Nitro City Park Streambank Stabilization Project; Beech Fork State Park Lodge Feasibility Study and Construction Plans; and we are currently in the bidding phase of both the Beech Fork State Park and Pipestem State Park Campground projects. Just this past January, ELR completed the Trails to the Future Master Plan for Lincoln County EDA; and we are currently in the site preparation phase of construction on the Forks of Coal State Natural Area Wildlife Museum near Alum Creek, WV. We also recently completed construction for the WVDNR of a new boat launch and river access on the Little Coal River on the Lincoln and Kanawha County line.

Here are a few points of note that make ELR ideally suited to assist you on this project:

1. Our previous experience with numerous recreational planning projects throughout West Virginia will be an asset to the West Virginia Division of Natural Resources in completing this project on time and within budget.
2. With design professionals from the fields of engineering, landscape architecture and planning, our team has the ability to offer all the required services for this project completely in-house from our Cross Lanes, Kanawha County office.

We welcome the opportunity to assist the WVDNR – Parks and Recreation with this significant project through planning, design and construction services. We look forward to your favorable review. Should you have any questions, please feel free to call or e-mail anytime.

Sincerely,

Eric Coberly, PE  
Project Manager  
ecoberly@elrobinsoneengineering.com

Jeff Nelsen, PLA  
Project Principal  
jnelsen@elrobinsoneengineering.com

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## Firm Overview



E.L. Robinson is a multi-disciplined engineering/planning firm with a staff of over 130 full-time professionals and support personnel located in seven offices throughout West Virginia (Charleston corporate office, Beckley and Chapmanville), Kentucky, and Ohio. Over the last 40 years, E.L. Robinson has grown to one of the largest firms in the region, offering a diverse scope of services. Since 1978, E.L. Robinson has provided a full range of quality engineering services, from planning and analysis to design and implementation.

Named for its founder and president, Edward L. Robinson, P.E., P.S., the firm has based its success on a commitment to quality projects with superior client service. Finding new and creative ways to say yes to challenges has brought the firm's vision of excellence into reality. Along with this "yes, we can do it" attitude, the firm has grown to understand the ingredients of a professional service firm include not only bricks and mortar, but also leading edge technology and a talented, motivated staff that is continually growing and advancing their skills. This dedication rewarded ELR with being named one of the **Engineering News Record's Top 500** engineering firms in the country.

The use of technology has allowed the firm to expand engineering capabilities and make use of new resources such as satellite imagery and digital mapping. In addition to the use of technology, E.L. Robinson also continues to strive to invent new and more effective ways to serve our clients. One of these ways is to provide a thorough pre-analysis of every project, saving the client time, money, and legal exposure. When the client is educated on every phase of the job and every challenge, the reputation of the firm grows stronger and attracts business from a larger marketplace.

E.L. Robinson has been providing its clients with quality products and superior service since 1978. Our staff combines state-of-the-art technology, experienced professionals, and innovative methods to help our clients meet their challenges.

- Transportation
- Infrastructure
- Bridge Design
- Right-of-Way Services
- Geotechnical Engineering
- Environmental Engineering
- AML Services
- Trails and Greenways
- Surveying/Global Positioning
- Landscape Architecture
- Structural Engineering
- Grant Writing



## Qualification Statements

E.L. Robinson has a strong background in planning and design of riverfront, river access and recreational amenities. Our team has over 40 years experience working with communities in West Virginia, Ohio, and other states.

Additionally, E.L. Robinson has over 130 staff members, including registered landscape architects, professional engineers, surveyors, and construction technicians. Our offices in Beckley and Cross Lanes, West Virginia will provide the identified scope of services.

ELR's team has been fortunate to assist other communities with recreational trails and greenway design services for many capital improvements projects. The following is a partial listing of similar projects relevant to the South Charleston Boat Ramp Improvements Project.

**1. Ironton Riverfront Docks - Ironton, OH**

**Scope:** Project planning, funding, USACE permitting, design, and construction management.

**2. Gallipolis Riverfront Improvements – Gallipolis, OH**

**Scope:** Project planning, permitting, design, and construction management.

**3. Little Coal River Boat Ramp Access**

**Scope:** Prepared survey, geotechnical evaluation, and construction documents for upgrades of this existing access site near the US 119 Bridge off of County Route 8.

**4. Kanawha Falls Public Access**

**Scope:** This project included a boat ramp, access road, parking facilities, fishing pier, trails, and picnic sites for this fishing area as well as a scenic tourist spot along US Route 60 in Fayette County, WV.

**5. Coal Grove Ice Creek Boating and Fishing Access**

**Scope:** Prepared a schematic design, phasing recommendations, layout plans, grading and drainage plans, erosion and sediment control plans, typical sections, roadway profiles, sewage pumpout facility details, and other miscellaneous plans and details for this outdoor recreation project.

**6. Forks of Coal State Natural Area - Alum Creek, WV**

**Scope:** Design of the site preparation plans for a new museum, visitors center and Elk population center gateway.

**7. South Mill Creek Recreation Area - Grant County, WV**

**Scope:** Conceptual design, detailed design, bidding and construction document preparation for a new lakeside recreation center.

**8. Upper Mud River Lake Recreation Area - Lincoln County, WV**

**Scope:** Conceptual design, detailed design, bidding and construction document preparation for a new lakeside recreation center.

**9. Hinton Island Park Master Plan**

**Scope:** Master planning of a park that would develop the often misused and neglected islands at the confluence of the New and Gauley Rivers in Hinton.

**10. Stonewall Jackson Resort State Park Pedestrian Bridge**

**Scope:** 900 linear feet timber frame bridge across Stonewall Jackson Lake.

**11. Beech Fork State Park Lodge Development**

**Scope:** Infrastructure, site and road design for new lodge at Beech Fork Lake plus stream and wetland mitigation and new trail development.

**12. Logan Pedestrian Bridge - Logan, WV**

**Scope:** Design of new pedestrian bridge into Logan High School across a channel of the Guyandotte River from a neighboring residential area.

**13. Lake Erie Bluffs Pedestrian Bridge and Stairs**

**Scope:** Prime Consultant for Roadway, Bridge, and Geotechnical Design for steps navigating from the bluff to the beach area of Lake Erie.

**14. Tomblinson Run State Park Accessible Fishing Site - New Manchester, WV**

**Scope:** Site design, material selection, construction documents and construction observation

Profiles and descriptions of the most recent projects with the client references can be found toward the end of this statement of qualifications.

This team of planners, landscape architects, engineers and surveyors has been specifically assembled for this project because of their experience relating to your project and for preparing context sensitive solutions that are realistic. Resumes for each team member are included on pages 14-32.

## Firm's Staffing / Capacity to Perform Project's Scope

### Professional Qualifications

**Mr. Jeff Nelsen**, will serve as Project Principle. Mr. Nelsen has practiced landscape architecture for over 40 years. His professional experience has afforded him opportunities to assist clients with park and recreation planning and design, community and urban planning, streetscape design, campus planning for elementary, secondary and higher education facilities and site planning and design for residential, commercial and public places.

**Other key staff members that will be assigned to this project are as follows:**

**Mr. Ed Robinson, P.E., P.S.**, will serve as Quality Control and Quality Assurance representative for the project team. Mr. Robinson has over 40 years' experience in the engineering and construction field, where he has served on numerous trade industry associations and boards within the design field, including the State Director and President of the West Virginia Society of Professional Engineers, and the President of the West Virginia Council of Consulting Engineers, among others.

**Mr. Eric Coberly** will serve as Project Manager. Mr. Coberly has over 30 years of experience in the field of engineering. He has managed an array of projects with ELR including site development, infrastructure planning, water, sewer, geotechnical analysis, abandoned mine reclamation projects, building construction, active surface mining projects, insurance investigations, post-mining land use plans, and parks and recreation improvements. He has spent his career bettering the State of West Virginia in both the private and public sectors.

**Mr. Todd Schoolcraft** will serve as Landscape Architect. Mr. Schoolcraft has over 25 years of experience in the fields of landscape architecture and land planning, with over 33 years of experience in the building and construction industry. Mr. Schoolcraft has extensive experience managing complex projects including commercial development, military installation design, land planning, public development, site planning and design, park and recreation design, trails and greenways, streetscape design and urban planning, and residential subdivision layout. Mr. Schoolcraft also retired from the WVANG with the rank of Major as a Combat Engineer.

**Mr. Tim Scott** has over five years of experience as a landscape architect working on a wide variety of projects, the majority of which incorporates trail design and non-motorized circulation. He has experience working on projects of all scales, from master plans to pocket parks, and with a variety of clients to include the WVDOH and the WVDNR. Prior to joining ELR in 2016, Tim was involved with projects and organizations in eastern Ohio and northern West Virginia which worked on connecting the existing trail system in Wheeling, WV with

those in central Ohio by utilizing share-the-road and rail to trail expansion and acquisition.

**Mr. Brandon Conley, PE**, will provide engineering support. Mr. Conley has more than 8 years of experience in project conception, planning, design, computer modeling, preparation of plans and specifications, permitting, coordinating with other utilities, land acquisition, easements, bidding, preparing invoices, construction management, site inspections and updating client's board members for a variety of projects ranging from small extensions to complete system upgrades. Mr. Conley is currently providing periodic construction oversight for the infrastructure improvements associated with the Forks of Coal Site Preparation package.

**Mr. Jeff Petry** will provide engineering support. Mr. Petry has nearly 10 years of experience as an infrastructure engineer. He's proficient in a multitude of areas such as project planning, design, modeling, bidding, construction monitoring and wastewater collection system analysis. Mr. Petry also is an owner-operator of his own kayak livery on the Little Coal River, and has grown up an avid fisherman and water sports enthusiast.

**Mr. Faheem Ahmad, PE**, will be assigned as Hydraulic Engineer. Mr. Ahmad is an experienced engineering manager with over 30 years of experience in highway and bridge projects. He is a seasoned project manager with a track record of managing and delivering projects within budget and on schedule. He has managed all types of projects including design-bid-build, design-build, and value engineering.

**Mr. Nasser Al-Zoubi, PE** will be assigned as Hydraulic Engineer. Mr. Al-Zoubi has over 21 years of experience in analyzing, designing and finite element modeling using computer-aided analysis for different structural applications and developments. Mr. Al-Zoubi has analyzed and designed structures such as bridge substructure and superstructure, reinforced concrete office buildings, steel pipe support systems, reinforced concrete storage tanks and reinforced concrete pavement.

**Mr. Tom Rayburn**, will be assigned Chief Surveying duties. 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.

**Mr. John Cruikshank**, will be assigned Surveying duties. In the past, his duties included gathering information pertaining to right-of-way acquisition for highway projects, more specifically deed research and correspondence with private and commercial property owners for purpose of development of right-of-way plans associated with property maps.

## **Capacity to do Work**

We are currently developing or finalizing design plans or involved in construction administration with many infrastructure projects in the southern coalfields of West Virginia. The ELR team has and will continue to manage these projects to completion. We believe our current and past experience will be a benefit for the West Virginia Division of Natural Resources and the South Charleston Boat Ramp Improvements Project.

## **Past Performance**

The list of projects are predominantly related to river access and recreation projects. In the last 2.5 years alone E.L. Robinson's staff have completed or are currently providing services for nearly 30 projects with a total construction exceeding \$15 million. All of the projects completed have been done within the available grant and local funds, accomplishing the scope of work envisioned prior to construction.



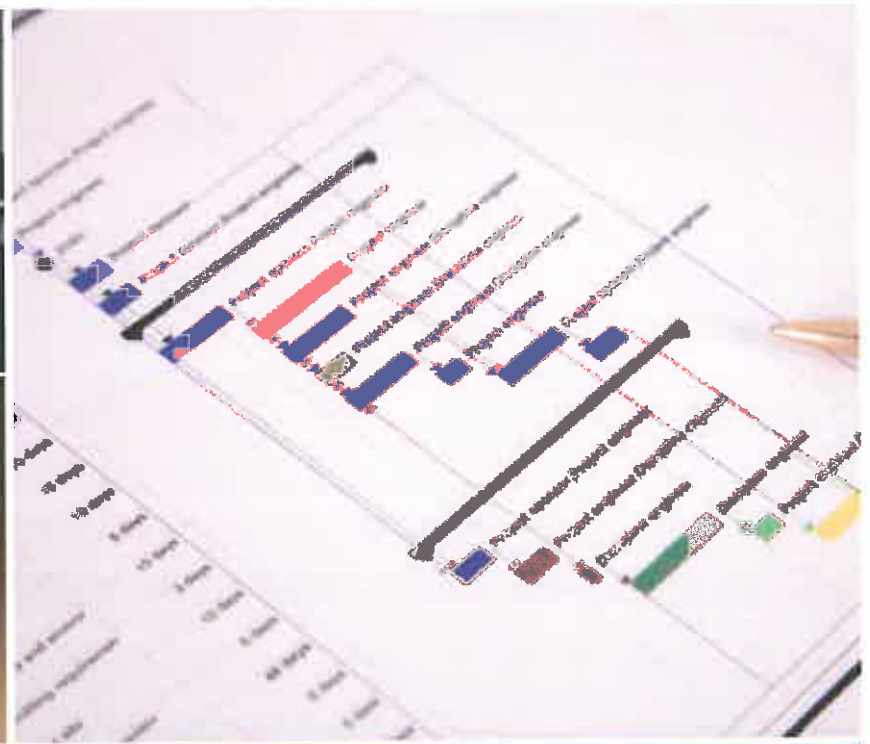


## Schedules and Deadlines Budget and Cost Accounting

**Schedules and Deadlines** – are established with the client at the start of the project. These deadlines are set up in a software package to assist project managers in tracking actual tasks and their completion. All project managers are familiar with this scheduling procedure and required to use it. Internal weekly resource meetings are held to check progress and reallocate staff resources if necessary. We understand the final construction plans are to be completed in time for the spring 2019 construction season.

**Budget Management & Cost Accounting** – Keeping a project in budget requires having the right information and current information. ELR uses a daily web-based time sheet program. Project managers know where projects are relative to budget on a daily basis. At no time is the project manager unaware of what has been charged to the project.

We use this same system to provide accurate cost estimates. By comparing the scope of services to similar previous experience, we are able to carefully estimate project costs by properly adjusting for labor, equipment, and other expenditures.



On Time On Budget.

## Project Approach



E.L. Robinson will work closely with the West Virginia Division of Natural Resources, Parks & Rec, West Virginia Department of Transportation, City of South Charleston, and other stakeholders in the Kanawha Valley to allow this project to advance. We feel that our respective knowledge and experience in the planning, funding and design of similar projects are significant assets in developing a cost effective solution for the South Charleston Boat Ramp Improvements project. Professional services may include the following:

**Obtain aerial topographical, GIS, Lidar and right of way mapping from WVDNR, WVDOH, US Army Corp of Engineers, and US Fish and Wildlife, or other possible entities:**

- Utilize existing GIS based mapping for the South Charleston Boat Ramp facility and Kanawha River area.
- Augment existing mapping with a field survey to establish Ordinary High Water Mark (OHWM), 100-year Flood Elevation, critical spot elevations, and existing utilities on-site.

### Data Collection and Project Scoping:

- The Kanawha River is a tributary of the Ohio River, is approximately 97 miles long, and is the largest inland waterway in West Virginia.
- The existing site consists of a single boat ramp and parking lot, under the Interstate 64 bridges.
  - The property is owned by the WVDOH, but is leased by the City of South Charleston.
- The South Charleston Boat Ramp Improvements plans should address the following:
  - Improve boating and fishing access.
  - Develop a plan for a new boat ramp and parking area.
  - Recommend improvements to the existing boat ramp.
- Consider permitting requirements such as the USACE 401/404 permits; US Fish & Wildlife, SHPO, NPDES, etc.
- Prepare a geotechnical investigation of the proposed launch area and parking lot.

### Project Development:

- Inventory existing launch/access site.
- Meet with WVDNR/WVDOH/City of South Charleston to identify key components for development and potential issues.
- Develop a preliminary plan for the new launch/access site, and improvements to the existing ramp.
- Prepare/submit all necessary permits for proposed improvements.
- Finalize construction plans for review/approval by the WVDNR and other stakeholders.
- Prepare cost estimate for proposed improvements.
- Assist the Owner in bidding the project.
- Provide construction management and construction administration services.



Bottom of existing boat ramp, looking downstream.



Existing gravel parking area under the I-64 westbound bridge.



Existing concrete boat launch and concrete storm gutters



## Our Project Team



**WV Division  
of Natural Resources**  
City of South Charleston



### QA/QC

Ed Robinson, PE, PS

### Project Principal

Jeff Nelsen, PLA

### Project Manager

Eric Coberly, PE

### Hydraulic Engineering

Faheem Ahmad, PE  
Nasser Al-Zoubi, PE

### Surveying & Mapping

Tom Rayburn, PS  
John Cruikshank

### Landscape Architecture

Todd Schoolcraft, PLA  
Tim Scott, PLA

### Civil Engineering

Brandon Conley, PE  
Jeff Petry, PE

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# Staff Resumes



## 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 Experience

Mr. Robinson founded E. L. Robinson Engineering Co. 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 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 85 engineers, landscape 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 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

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- **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**



## Education

Bachelor of Science in Landscape Architecture  
West Virginia University, 1976

## Registrations

Professional Landscape Architect in West Virginia, Indiana, Ohio, Maryland, Virginia, and Kentucky

## Professional Experience

Mr. Nelsen has practiced landscape architecture for over 39 years principally in West Virginia but also has completed projects in Ohio, Indiana, Pennsylvania and Kentucky. His professional experience has afforded him opportunities to assist clients with park and recreation planning and design, community and urban planning, streetscape design, campus planning for elementary, secondary and higher education facilities and site planning and design for residential, commercial and public places. He has been involved in environmental planning and restoration especially lands degraded from past mining practices. He has managed site development on significant projects such as the Stonewall Jackson Resort and the Tamarack Art Center yet enjoys working with clients and communities assisting them visualize the improvements for their parcels and neighborhoods.

## Representative Projects

**Clay Center for the Arts and Sciences, Charleston, WV:** Prepared construction and bidding documents and provided construction administration for a new public plaza space at the corner of Leon Sullivan Way and Washington Street for Charleston's premier performing arts and science center. The site's design called creating a cool green zone for people to gather informally and as an entertainment venue for special events. The relative flat site consisted of a circular plaza and fountain surrounded by a concentric ring of granite seat walls at the edge of the pavement radiating outward into the lawn area. Large 4" and 6" caliper Linden and Honeylocust trees were planted to create a shaded canopy for the space in front of the center.

**Washington Street Streetscape, Charleston's East End, WV:** Prepared master plan, construction and bidding documents and provided construction administration services for the remaining segment of the Washington Street streetscape from the state Capitol grounds to Charleston Area Medical Center which entailed a ½ mile of sidewalk replacement, new street lighting, brick accent pavements, street trees, landscaping, utility line relocation and burial and new underground electrical service for 30 structures. Total budget for the project was approximately two million dollars.

**Rich Mountain, Laurel Hill and Corrick's Ford Civil War Battlefields, Randolph, Barbour and Tucker Counties, WV:** These are three distinct battlefields but are all related to each other because they are a progression of the first major conflict in northwestern Virginia in July, 1861 between approximately 9000 Union soldiers led by General George McClellan and 5000 Confederate troops led by General Robert Garnett. The armies engaged each other at these three locations over a week's time resulting in the defeat of the Confederate forces. This early Union victory allowed Union sympathizers in the western counties of Virginia to organize a secessionist movement to form the new state of West Virginia. Services included providing master planning, interpretation recommendations, signage and trail development for each of these sites with archeological and historical consultants on the team. The planning and design efforts of these new public lands were focused on preservation and interpretation of each site's story about West Virginia's role in the Civil War.

**Tamarack Art Center, Beckley, WV:** Working with the architect for the project prepared the site master plan and managed design for all exterior improvements including access road, bus and car parking, earthwork, stormwater management, utility design, pedestrian walkways and plaza spaces, fountain design, landscaping, and irrigation design. This \$20 million facility is widely recognized in West Virginia and surrounding states as one of the finest venues for West Virginia artisans.

**Stonewall Jackson Resort, Roanoke, WV:** In the most recent major expansion of a West Virginia State Park, assisted the developer in an unique public private partnership to build new facilities at the park which included master planning for a lodge, golf course, expanded campgrounds, cabins, expanded day use facilities, trails and other site features. Prepared

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documents for regulatory review by the USACOE, WVDEP, and WVDNR. Managed the development of site preparation construction documents for the lodge, golf clubhouse, cabin area, and future campground areas. Assisted the golf course design team with storm water management and permitting issues. After the completion of new facilities have continued to assist the developer on future proposed amenities for the resort.

**Greenbrier River Rail-Trail Improvements for the West Virginia Department of Natural Resources, Parks and Recreation Division in Greenbrier County, West Virginia.** Project Principle. Responsible for field inventory and analysis, base map preparation, concept development, detailed design, and construction documents preparation. The banks of the Greenbrier River were literally washed away twice during severe flooding in 1996. Also washed away were parts of the Greenbrier River Trail, the 88-mile former railroad line from Cass to Caldwell, which is maintained by the West Virginia Division of Natural Resources. Our charge was to assess the damage on a 24-mile section of trail from Cass to Marlinton, which ranged from simple debris removal to replacement of the entire trail cross section and sub-base material. This inventory of damage was graphically represented utilizing digital scans of the original 1916 Chesapeake and Ohio Railway Co. Valuation Maps, indicating exact locations, the extent of damage, and treatment required.

**BOPARC Master Plan Update, Morgantown, WV:** Due to the significant growth in Morgantown, assisted the Morgantown Board of Park and Recreation Commission with an update of the existing and proposed park facilities maintained by the City of Morgantown. This involved site review of approximately 20 facilities, development of a needs analysis survey and interpretation of its findings, preparation of new master plans for each park, preparation of cost opinions and phased recommendations for the planned \$12 million of improvements.

**Aspen Village, Timberline Resort, Canaan Valley, WV:** Provided master planning and managed site design, permitting and engineering for a new 50 lot subdivision near Timberline. The development involved grading layout for lots, roads, drives, utilities, pond enlargement, and site amenities. Project entailed 30 duplex and triples units and 20 single family lots. Coordinated utility extensions with each respective company and assisted several of the property owners with site planning of their home sites.

**West Side Community Renewal Plan, Charleston, WV:** Working with the Charleston Urban Renewal Authority, Charleston Planning Department and community leaders on the West Side developed the largest urban renewal plan within the city encompassing 228 acres and almost 900 buildings. With assistance of a public facilitation consultant held a series of meetings with residents and business owners to gain input into their vision for the plan. The adopted recommendations identified significant public and private recommendations with the strongest focus on a new home ownership zone around the new elementary school planned on Florida Street

**Little Coal River Boat Ramp, Alum Creek, WV:** WVDNR retained E.L. Robinson in 2017 to prepare survey, geotechnical evaluation, and construction documents for upgrades of this existing access site near the US 119 Bridge off of County Route 8.

The site related elements ELR will design are: Upgrade the existing road into the site; new concrete ramp built to the river's edge to allow for vehicles with boats easier water access to unload via trailer or roof racks; entry sign; Parking for vehicles and trailered vehicles; and gates to prevent public access under US 119 Bridge.



### **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.

Additionally, 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 all operations. He has spent his career working to better the State of West Virginia in both the private and public sectors.

- Participated in over 110 AML project designs.
- 34 years of AML Reclamation design experience.
- 22 years of AML Program experience with WVDEP including managing both construction and design sections in addition to serving as Office Chief.
- Reviewed hundreds of AML Project designs since 1984.
- Knowledgeable of AML construction practices.

### **Representative Projects**

#### **Carson One Special Reclamation Project**

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

#### **Squires Creek (Moats) Portal and Refuse**

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

#### **Sugarcamp Run Burning Refuse Phase II**

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

#### **Abney Refuse Pile**

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

#### **Cartwright Branch Refuse Pile**

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

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**Thorpe Refuse Pile**

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

**Gordon "C" Refuse Pile**

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

**Keaton Branch Complex**

Project Location: Raleigh County, WV. Client: WVDEP-AML, Oak Hill, WV. Completion Date: 2010-2011  
Project Description: Performed survey, drilling, design for refuse, regrading and mine drainage control.

**Dunloup Creek Complex**

Project Location: Raleigh County, WV. Client: WVDEP-AML, Oak Hill, WV. Completion Date: 2009-2011  
Project Description: Performed survey, drilling, design for refuse and spoil regrading and mine drainage control.

**Glen Alum Complex**

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

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

- 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



## Education

B.S. Landscape Architecture, West Virginia University, 1991  
Safe Spaces: ASLA Security Design Symposium, Chicago, IL, 2004  
AQUA Conference Educational Sessions, Las Vegas, NV, 2005  
CERFP Team Training, WV Army National Guard, 2006

## Registrations

PLA, West Virginia, 1995  
RLA, North Carolina, 2005  
RLA, Ohio, 2002  
CLARB Certified, 2001  
LEED® Green Associate, 2012

## Professional Experience

Mr. Schoolcraft has over 27 years of experience in the fields of landscape architecture and land planning, with over 33 years of experience in the building and construction industry. Mr. Schoolcraft has extensive experience managing complex projects and leading multi-disciplined teams of professionals resulting in the successful delivery of numerous quality projects on-time and on-budget. Major areas of specialty include commercial development, military installation design, land planning, public development, site planning and design, park and recreation design, trails and greenways, streetscape design and urban planning, and residential subdivision layout. Mr. Schoolcraft is a retired U.S. Army Officer, holding the rank of Major, with over 23 years of time in service in the U.S. armed forces. In the last years of service, he held the position of Operations Officer with the newly formed Chemical, Biological, Radiological, Nuclear or High Yield Explosive Enhanced Response Force Package Team (CERFP Team) with the West Virginia Army National Guard.

Prior to this, he was a combat engineer with the Design Section of the 111th Engineer Group, West Virginia Army National Guard. The 111th Engineer Group served in the Middle East in support of Operation Iraqi Freedom and Operation Enduring Freedom. During that time, Mr. Schoolcraft was awarded the Bronze Star Medal for meritorious service associated with a multitude of engineering and architectural projects in Kuwait and Iraq. Mr. Schoolcraft was appointed by the governor to the West Virginia State Board of Landscape Architects and served over 9 years as Secretary and Treasurer.

**Nitro City Park Streambank Stabilization and River Access along the Kanawha River, for the City of Nitro, West Virginia. Project Manager.** Responsible for field inventory and analysis, base map preparation, concept development, detailed design, construction document preparation, and construction management. Developed the design and prepared the permitting for a riprap stabilization dike along the Kanawha River. The design included a proposed 700 lineal foot riprap stabilization dike to support and stabilize the existing riverbank, which was exhibiting signs of instability. The crest of the riprap dike was designed to support a concrete walking trail and steps for river access, as well as other new park amenities. Work included engineering design of the dike, preparation of construction drawings and specifications, US Arm Corps of Engineers permitting and execution of a mussel survey. In addition to the concrete walking trail along the top of the riprap dike with steps to access the lower walkway, other amenities include walking trails along the top of the riverbank, benches, picnic shelters, a tension fabric canopy to function as an outdoor stage and overlook, floating docks for river traffic access, and landscaping.

**Upper Mud River Lake Recreation Area Development for the Soil Conservation Service (SCS), Lincoln County, West Virginia. Project Landscape Architect.** Assisted in the development of a master plan, and construction documents for the development of a recreational facility associated with the flood control impoundment. Plans included a bath house, beach and swimming area, two comfort stations, two boat launch facilities, handicap accessible fishing pier, playgrounds, picnic shelters, water treatment facility, sewer treatment plant, maintenance facility, parking lots, roads, lighting, signage, trails, and other amenities of this destination fishing and recreation facility.

**Burning Rock Slab Fork Trail Facility, Raleigh County, West Virginia. WVDOT-DOH and the Burning Rock Outdoor Adventure Park. Project Manager.** Responsible for design and document quality oversight. Burning Rock Outdoor Adventure Park is a family-fueled, mom-approved, razz-your-buddies, go-big-or-go-home, beginners-always-welcome way to have a good time on a West Virginia vacation in the New River Gorge region. ATVs, SxSs and MX are the main focus here at Burning

Rock with over 100 miles of well-kept trails for every skill level on 10,000 acres and a 1.25 Mile professionally designed MX track. In 2016, Burning Rock announced the opening of five new off-road trails, including a connector into the historic coal camp town of Slab Fork. The addition of these trails will bring the park's total to 74 trails that are a combined 106 miles in length. Efforts are under way through a partnership with Burning Rock, the Beaver Coal Company that owns the land, and the West Virginia Division of Highways Recreational Trails Program, and the residents of Slab Fork, with the goal of "breathing new life" into the coal camp town, which was established in 1907. Burning Rock plans to continue developing trails in the Slab Fork area as it continues its expansion efforts moving forward.

**Greenbrier River Rail-Trail Improvements for the West Virginia Department of Natural Resources, Parks and Recreation Division in Greenbrier County, West Virginia. Project Landscape Architect.** Responsible for field inventory and analysis, base map preparation, concept development, detailed design, and construction documents preparation. The banks of the Greenbrier River were literally washed away twice during severe flooding in 1996. Also washed away were parts of the Greenbrier River Trail, the 88-mile former railroad line from Cass to Caldwell, which is maintained by the West Virginia Division of Natural Resources. Our charge was to assess the damage on a 24-mile section of trail from Cass to Marlinton, which ranged from simple debris removal to replacement of the entire trail cross section and sub-base material. This inventory of damage was graphically represented utilizing digital scans of the original 1916 Chesapeake and Ohio Railway Co. Valuation Maps, indicating exact locations, the extent of damage, and treatment required.

**Buffalo Creek & Gauley Railroad Recreation Trail for the Clay County Business Development Authority, Clay, West Virginia. Project Manager.** Responsible for field inventory and analysis, base map preparation, concept development, and construction cost estimating. On June 23, 2016, severe floods washed away the banks of Buffalo Creek. Nearly 10 inches of rain fell over a period of 12 hours, resulting in a flood that was among the deadliest in West Virginia's history. Along with the Buffalo Creek riverbank, much of the Buffalo Creek & Gauley (BC&G) Railroad and Trail was washed away. The BC&G was an 18.6-mile long, coal-hauling short line that operated in central West Virginia from 1904 through 1965, and is now being maintained as a draisine excursion and recreation trail by the Clay County Business Development Authority. The team performed damage assessments on the entire length of rail-with-trail from the communities of Dundon to Widen – which varied from simple debris removal, replacement of entire trail and ballast cross sections, culvert replacement, to rail and trestle replacement. The team was able to graphically represent the extent of damage using scans of the original 1904 railroad right-of-way centerline maps, indicating the location of the damage and the type of remediation required. Conceptual plans and cost estimates were prepared reflecting proposed repairs for use in the client's application to FEMA for flood mitigation assistance. The plans will be part of the construction documents that will be prepared for the restoration of the historic rail line and recreation trail.

**Historic Wellsburg and Bethany Scenic Byway Corridor Management Plan for the Brooke County Commission and the Byway Committee in Wellsburg, West Virginia. Project Manager.** Responsible for field inventory and analysis, community input facilitation, and document preparation. Prepared a Corridor Management Plan for the Historic Wellsburg and Bethany Scenic Byway in Brooke County in preparation for Federal recognition in the National Scenic Byway Program. The plan showcased the story of settlement and the development of industry along the Ohio River in the Northern Panhandle of West Virginia. The plan also developed recreational opportunities and improved safety along the circular 22-mile scenic corridor loop. The plan won a Merit Award with the American Society of Landscape Architects.

**Mill Creek Lake Recreation Area Development for the Soil Conservation Service (SCS), Grant County, West Virginia. Project Landscape Architect.** Assisted in the development of a master plan, and construction documents for the development of a recreational facility associated with the flood control reservoir, Mill Creek Lake in Grant County, West Virginia. Plans included restroom facilities, boat launch facility, handicap accessible fishing pier, playgrounds, picnic shelters, parking lots, roads, lighting, signage, trails, and other amenities of this destination fishing and recreation facility.

**Ararat River Greenway Parks Projects, Mount Airy, North Carolina. City of Mount Airy, North Carolina. Project Manager.** Responsible for design and document quality oversight. Prepared designs for three (3) parks along the Ararat River in NC. The designs were prepared based on a previously developed master plan of the Ararat River Greenway. The first park, Riverside Park, includes basketball courts, playground structures, parking areas, a premier soccer field, picnic shelters, nature trails, canoe launch facility, restrooms, fencing, signage and landscaping. Rowe Environmental Park showcases environmental issues in the park design and construction, including an outdoor amphitheater and classroom, picnic facilities, nature trails, parking area, pedestrian bridge to nearby middle school, fishing access and canoe launch facility. The final park design was for Tharrington Park, which includes a soccer complex, access road and parking, fitness trail, restroom facility, concessions, and a maintenance building. The entire project is connected with a greenway/trail along the Ararat River, which was also designed by the team, as well as the associated stream restoration efforts.



## Education

Bachelor of Science in Landscape Architecture  
Minor in Geography: GIS and Regional Planning and Development  
West Virginia University, 2010

## Registrations

Professional Landscape Architect in Ohio.  
Currently pursuing reciprocity in West Virginia and Kentucky

## Professional Experience

Mr. Scott joined E.L. Robinson in August of 2016 and has since become an integral part of the design team. Prior to joining E.L. Robinson, Mr. Scott worked for a small landscape architecture firm in eastern Ohio where he was the project manager for residential projects while also working on various other projects that spanned into northern West Virginia and south-eastern Pennsylvania. Mr. Scott has experience in all phases of the design process in projects including: parks and recreation; streetscapes; commercial and residential design; civic and institutional design; botanic gardens; and trail design. Aside from working at E.L. Robinson, Mr. Scott has over twenty years of military experience and currently flies UH-60 Blackhawk helicopters for the West Virginia Army National Guard.

## Representative Projects

**Bridgeport Route 58 Pedestrian Walkway - Bridgeport, WV:** Worked on final design and prepared construction documents for a connector trail along Route 58 between downtown Bridgeport and the existing trail leading to Deegan and Hinkle Lakes Park. The project consisted of an accessible, asphalt trail with segmented block retaining walls in areas where required and addressed storm water drainage issues. In addition to the trail, approximately 350 linear feet of sidewalk was replaced which incorporated accessible curb ramps to tie into the city's updated sidewalks.

**Forks of Coal State Natural Area - Alum Creek, WV:** Worked on final design and prepared construction documents for a new state natural area and education center at the confluence of the Big Coal and Little Coal Rivers. The project's final design encompassed a complete site design to include: a new access road; building placement and orientation; an entry plaza and gathering space; parking lot design with bioswales and a detention basin; vehicular and pedestrian circulation; an outdoor amphitheater/classroom with accessible seating and an accessible trail with retaining walls for access; and a new entry sign.

**Military Road Park - Zanesville, OH:** Worked on all phases of the design process from conceptual design, to preparing construction and bidding documents, through providing construction administration and project close-out. The design of the project was to create an accessible trail which connected to an art museum through a newly established meadow and woods; removing invasive species while reestablishing native tree species to provide a wooded area over time. The initial design elements consisted of an accessible parking space, an asphalt trail, a wood chip path, a custom-designed stream crossing, deer fencing, and new planting.

**McIntire Wildlife Park - Zanesville, OH:** Worked on all phases of the design process from conceptual design through preparing construction and bidding documents. The design consisted of a reuse of the former site of McIntire Elementary School in Zanesville to create a pocket wildlife park for the local community as well as provide outdoor classrooms and educational spaces for the local schools. The enclosed park created new off-street parking; asphalt and compacted gravel trails through the site; an outdoor amphitheater/classroom; educational gardens; a water feature to attract wildlife; and bird houses, bird baths, and bat boxes. The planting scheme for the park was designed to create a succession of landscapes which mimic the natural landscapes of central and eastern Ohio: forests, successional shrub zones, and natural meadows; all while promoting wildlife habitation.

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**Mt. Wood Cemetery and Overlook - Wheeling, WV:** Prepared a conceptual master plan for the historic Mt. Wood Cemetery in Wheeling, WV, including the locally famous overlook, which provides a 270 degree view of Wheeling and the Ohio Valley. The master plan consisted of cleaning up the cemetery and reestablishing its connection to North Wheeling by exposing the original stone steps leading from the cemetery to Market Street and by designing new paths and trails that intertwine throughout the cemetery for people to utilize. The concept also proposed a clean-up of the overlook, which utilizes the existing structure to provide an iconic destination for locals and visitors, and includes: a walking path with an elevated walkway; art installations designed by WV artists; and large "Hollywood Sign" style Wheeling letters which will be visible from throughout the city.

**The Health Plan Corporate Headquarters - Wheeling, WV:** Provided conceptual and final site designs; and prepared construction documents and bidding documents for the new corporate headquarters building in downtown Wheeling. The project consisted of a complete site design which included off-street parking, an outdoor pocket park, a sandstone and grass amphitheater and open space for outdoor exhibits. The project also included a new streetscape design which incorporated the use of bioswales which separate the sidewalks and on-street parking to help reduce the load on the city's storm system. The intent of the new streetscape design is to serve as the City of Wheeling's new standard for future streetscape designs.

**Market Street Plaza Redesign - Wheeling, WV:** Prepared construction documents and provided construction administration for the redesign of Market Street Plaza in downtown Wheeling. The redesign consisted of improving both vehicular and pedestrian traffic all while maintaining ADA standards; preserving and promoting a portion of the city of Wheeling's history and culture; and providing the area with a safe place for local businesses and their patrons to gather. The elements of the redesign consisted of new concrete sidewalks and brick paving; on-street and off-street parking; gated access for tenants; new tables and benches; historic interpretation and signage; and new planters and planting material.

**Belmont County Senior Services Center - St. Clairsville, OH:** Worked on all phases of the design process from conceptual design through preparing construction and bidding documents. The project consisted of a complete site design to include building location and orientation; visitor and employee parking design; vehicular and pedestrian circulation; and on-site storm water retention. The elements of the design included concrete sidewalks, bioswales, traffic signage, and planting material.

**Seven Springs Mountain Resort Parking Plan - Seven Springs, PA:** Assisted with conceptual redesign of the main parking lot for the main lodge of Seven Springs Mountain Resort in Pennsylvania. The redesign improved vehicular and pedestrian circulation while incorporating bioswales and bioretention for storm water control.



# Brandon Conley, P.E.

## Civil Engineering



### Education

M.S.E. Engineering Management, Marshall University, 2016

B.S. Civil Engineering, West Virginia Institute of Technology, 2009

### Registrations

Registered Professional Engineer in West Virginia, Kentucky and Ohio

### Professional Experience

Mr. Conley has more than 8 years of experience in project conception, planning, design, computer modeling, preparation of plans and specifications, permitting, coordinating with other utilities, land acquisition, easements, bidding, preparing invoices, construction management, site inspections and updating client's board members for a variety of projects ranging from small extensions to complete system upgrades. Training includes preliminary engineering reports, line layout, hydraulic design, lift and booster station design, water storage tank design, preparation of construction documents and specifications, preparation of permit applications and coordination with regulatory and funding agencies.

### Representative Projects

Eastern Wyoming PSD Barkers Ridge/Basin Phase I & II Waterline Extension Project: Construction and design with a \$10,644,000 cost.

Eastern Wyoming PSD Beartown-Herndon Heights AML Waterline Extension Project: Construction with a \$9,388,000 cost.

Eastern Wyoming PSD Bud/Alpoca Water System Upgrade Project: Construction with a \$2,270,000 cost.

Eastern Wyoming PSD Covel Waterline Extension Project: Construction with a \$5,860,000 cost.

Eastern Wyoming PSD Otsego Waterline Extension Project: Construction with a \$9,828,000 cost.

Lincoln PSD Lower Mud River Waterline Extension Project: Construction with a \$6,452,000 cost.

Logan County PSD Big Harts Phase I through IV Waterline Extension Project: Planning, design and construction with a \$22,810,000 cost.

Logan County PSD Big Ugly Creek Road Phase I through III Waterline Extension Project: Planning with a \$10,035,000 cost.

Logan County PSD Frances Creek Waterline Extension Project: Construction with a \$2,830,000 cost.

Logan County PSD Hidden Valley/Airport Road Water System Upgrade Project: Construction with a \$1,307,000 cost.

Mingo County Redevelopment Authority Mingo County Air Transportation Park Water and Sewer Extension Project: Design with a \$7,000,000 cost.

Town of Chapmanville Water System Upgrade Project Phase I & II: Construction and design with a \$5,050,000 cost.

Town of Williamson Water System Upgrade Project: Design with a \$11,764,000 cost.

West Virginia Division of Natural Resources Claudia L. Workman Wildlife Education Center Phase I: Construction with a \$2,110,000 cost.

Town of Pax Willis Branch Sewer Extension Project: Planning and Design with a \$2,300,000 cost.

Town of Gilbert River Bend Road Waterline Extension Project: Planning and Design with a \$2,229,000 cost.

### **Education**

B.S. Civil Engineering, West Virginia Institute of Technology, 2008

### **Registrations**

Registered Professional Engineer in West Virginia

### **Professional Experience**

Mr. Petry has almost 10 years of experience as an infrastructure engineer. He has experience in a variety of areas including potable water distribution system extensions, wastewater collection system extensions, wastewater collection and treatment systems inflow and infiltration studies, and wastewater collection system remediation projects. He is proficient in a multitude of areas such as project planning, design, modeling, bidding, construction monitoring and wastewater collection system analysis.

### **Representative Projects**

Mr. Petry has been a Project Designer/Project Engineer on the following projects:

- Town of Wayne Waste Water Treatment Plant Project
- Town of Burnsville Sanitary Sewer Evaluation Survey
- Town of Bradshaw Comprehensive Sanitary Sewer Upgrade Plan
- Branchland-Midkiff PSD - Two Mile Creek Water Extension Project
- Town of Gilbert - Upper Gilbert Creek Water Extension Project
- Town of Gilbert - River Bend Road Water Extension Project
- Marshall County PSD - Mozart Sewer Extension Project
- Town of Salem - Sewer System Evaluation Survey Project
- Town of Salem - Storm Water Elimination Project
- City of Williamson - Sewer System Upgrade Project



# Faheem Amhad, PE, PS

## Hydraulic Engineer



### Education

M.S Civil Engineering, Virginia Tech (VPI & SU), 1991  
B.S. Civil Engineering, West Virginia Univ. Institute of Technology, 1988  
M.S Information Systems, Marshall University, 2004

### Registrations

Registered Professional Engineer: WV, FL, VA, OH, TX, NY, NC, KY, PA, MD and DE  
NCEES

Registered Professional Surveyor in West Virginia [REDACTED]

Certified Bridge Safety Inspector – NHI [REDACTED]

Certified Floodplain Manager (CFM)

#### Professional Memberships

American Society of Civil Engineers – Structural Engineering Institute (SEI)

Association of State Floodplain Managers (ASFPM) - Member

Transportation Research Board (TRB)

### Professional Experience

Mr. Ahmad is an experienced engineering manager with over 30 years' experience in highway and bridge projects. He is a seasoned project manager with a track record of managing and delivering projects within budget and on schedule. He has managed all types of projects including design-bid-build, design-build, and value engineering. Mr. Ahmad has over 14 years of experience in alternative delivery methods such as design-build, public-private-partnerships (PPP) and value engineering (VE).

Mr. Ahmad has implemented Accelerated Bridge Construction (ABC) methodology on multiple projects to reduce construction duration and impacts on traffic.

Mr. Ahmad has thorough knowledge of West Virginia design directives and policies, WVDOH Bridge Design Manual and AASHTO LRFD specifications. He has used Critical Path Analysis and Gantt charts to schedule and manage projects.

He has thorough knowledge of bridge erection techniques, stage construction analysis and analysis for constructability. He has had extensive experience in directing the preparation of the design and on-site construction engineering and inspection of bridges and structural engineering projects.

He has over 27 years of professional experience in Finite Element Modeling (linear and non-linear) for bridge projects. He has conducted bridge inspections (NBIS, Element Level) and performed load rating evaluations and analysis in accordance with AASHTO Manual for Condition Evaluation of Bridges (now the Manual for Bridge Evaluation – 2nd Edition) of complex highway bridges ranging from thru trusses to curved girder bridges to bascule bridges. Mr. Ahmad has extensive experience in analysis software such as MDX, LUSAS, STAAD PRO, LARSA 4D, MIDAS and ABAQUS.

Mr. Ahmad also has over 22 years of experience with hydraulics engineering projects in West Virginia. Mr. Ahmad is also Certified Floodplain Manager (CFM) from the Association of State Floodplain Managers. Mr. Ahmad is proficient in conducting hydrologic and hydraulic (steady flow/unsteady flow/2D-flow) of rivers and creeks. Representative projects include FEMA flood studies and map revisions, hydrologic studies, floodplain studies, erosion protection design, bridge hydraulics and scour studies. He is also experienced with water resources regulations, and permitting requirements in West Virginia.

Prior to joining ELR, Mr. Ahmad had over six years of professional affiliation with the Structures Divisions of Delaware and Virginia Department of Transportation.

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### Representative Projects

#### **Corridor H – Kerens to Parsons– Design Build Project, Randolph and Tucker Counties, WV.**

Lead Bridge Engineer for the \$ 200 million design build project. This project includes following major bridges/structures:

- Bridge Over Baldlick Fork is 560 ft long horizontally curved bridge with layout of three continuous spans as follows: 170 ft – 220 ft – 170 ft. The steel plate girders have 86" deep web. Overall deck width is 84'-6". Pier heights are approximately 94 ft.
- Panther Run Bridge Over Panther Run is a 620 ft long bridge with layout of three continuous spans as follows: 175 ft – 270 ft – 175 ft. The steel plate girders have 93" deep web. Overall deck width is 84'-6". Pier heights are approximately 77 ft.
- South Branch Haddix Run Bridge Over South Branch Haddix Run is a horizontally curved 780 ft long bridge with layout of three continuous spans as follows: 250 ft – 280 ft – 250 ft. The steel plate girders have 90" deep web. Overall deck width is 84'-6". Pier heights are approximately 130 ft.
- Bridge Over Tributary of South Branch Haddix Run is 600 ft long bridge with layout of three continuous spans as follows: 180 ft – 240 ft – 180 ft. The steel plate girders have 86" deep web. Overall deck width is 84'-6". Pier heights are approximately 82 ft.
- Bridge Over US 219 and Haddix Run is 1200 ft long bridge with layout of five continuous spans as follows: 205 ft – 280 ft – 280 ft – 280 ft – 155 ft. The steel plate girders have 100" deep web. Overall deck width is 84'-6". Pier heights range from 75 ft – 202 ft.
- CR 3 underpass structure is a 230 ft long box cast-in-place concrete single cell box type structure with a 28 ft clear span

**Cottageville Bridge:** Lead Design Engineer and Lead Bridge Engineer for the design-build project to construct a new bridge to carry WV 331 over Little Mill Creek in Jackson County. The proposed bridge consists of three spans of 80 ft – 80 ft – 40 ft with a concrete beam superstructure with a composite concrete deck. The substructures consist of integral abutments founded on H-piles and single column piers. Other design features included drainage, maintenance of traffic, signing, pavement markings, environmental permits (404, NPDES) and construction inspection. Cost for the bridge was \$ 1.9 million.

**S. Lee Exxon Bridge:** Lead Design Engineer and Lead Bridge Engineer for the design-build project to construct a new bridge to carry WV 68 over South Fork Lee in Wood County. The bridge is 190 ft long, bearing to bearing, and 38'-6" out to out. Span 1 is 75 ft long and Span 2 is 115 ft long. The proposed bridge is a two span bridge with a concrete beam superstructure and a cast-in-place concrete deck. The pier is of the two column type with pile caps and driven H-piles supporting each column. Other design features included drainage, maintenance of traffic, signing, pavement markings, environmental permits (404, NPDES) and construction inspection. Cost for the bridge was \$ 2.4 million.

**I-77 Bridges: Surface Drive Overpass Bridges:** Lead Design Engineer and Lead Bridge Engineer for the design-build project involving renovation of two dual I-77 bridges: Surface Drive Overpass Bridges on I-77 over CR 119/37 and Eden's Fork Interchange Bridges on I-77 over CR 27 in Kanawha County, WV. beams/girders for each of the bridges are made composite by having shear connectors installed on them. Abutments are converted to semi-integral type. Other design features include drainage, maintenance of traffic, signing, pavement markings, environmental permits (404, NPDES) and construction inspection. Cost for the bridges was \$ 5.4 million.



## Education

Ph.D., Engineering, The University of Akron, 2002  
M.S. Structural Engineering, Jordan University of Science and Technology, 1997  
B.S. Civil Engineering, Jordan University of Science and Technology, 1994

## Registrations

Registered Professional Engineer in West Virginia and Ohio

## Professional Memberships

American Society of Civil Engineers (ASCE)  
Transportation Research Board (TRB)

## Professional Experience

Mr. Al-Zoubi has over 21 years experience in analyzing, designing and finite element modeling using computer-aided analysis for different structural applications and developments. Mr. Al-Zoubi has analyzed and designed structures such as bridge substructure and superstructure, reinforced concrete office buildings, steel pipe support systems, reinforced concrete storage tanks and reinforced concrete pavement.

## Representative Projects

Design Engineer for Wyoming Truss Bridge Replacement, McDowell County, WV. Three span (88'-110'-88') steel girder-concrete slab bridge. The deck was designed using Empirical LRFD Method. The steel girders were designed using Marlin-Dash software. The substructure consists of two hammerhead Piers and semi-integral Abutments. The Piers were designed using RC-Pier and FB-Pier software. Sap2000 was used to design the Abutments walls and FB-Pier to design Abutments H-Piles. Estimated construction cost for the bridge is \$1,900,000.

Design Engineer for US-60 Bridge over Tennessee River, McCracken / Livingston Counties, KY. The Truss Bridge consists of three spans (500'-900'-400') crossing the Tennessee River. For this project, 3D SAP2000 model of the Piers was used in the analysis and design. The response spectrum taken from a site test was incorporated with the SAP2000 model to account for seismic loading. Estimated construction cost for the bridge is \$75,000,000.

Design Engineer for Buffalo Creek Bridge, Logan County, WV. Four span (222'-264'-216'-118') Horizontally Curved (variable girder spacing) steel girder-concrete slab bridge. A newly mixed Empirical and Traditional method was used to design the new deck.

Superstructure was analyzed using a 3D SAP2000 model to check the bridge components during deck replacement and stage pouring of the new deck and check the deck stresses in the final stage. Estimated construction cost for the bridge is \$4,300,000.

Design Engineer for Haines Branch I/C Bridge, Kanawha County (WV). A simple span bridge (138 ft) with 35 degrees skewed Abutments and cantilevered Wingwalls. In addition to the typical analysis and design steps, Sap2000 3D model was used to analyze the entire bridge. The model was used to check the deck stresses, girder responses during deck pouring and service, diaphragm responses were also checked. The FB-Pier model was used to design the Abutment Piles.

Design Engineer for WV Rout 85 EDG-Robinson Creek Bridge. A simple span bridge (60 ft) with 40 degrees skewed Abutments. The deck was designed using Empirical LRFD Method. Marlin-Dash (line analysis) was used to design the girders. The effect of lateral bending was check. FB-Pier finite element program was used to design the Abutment Piles. Sap2000 3D model was used to verify the Wingwall design

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Design Engineer for Ohio Approach spans for the Blennerhassett Bridge over the Ohio River. A three span (171'-170'-139') steel girder-concrete slab bridge analyzed and designed using MDX (line and system analysis) and Marlin-Dash (line analysis). Analysis and design of the concrete slab using SAP2000. The analysis and design of post-tensioned (varying section) pier cap for two piers using SAP2000 (a spread sheet was made for the design). The design of the columns using RC-Pier. The design of the drilled shafts using Florida-pier software. Estimated construction cost for the bridge is \$118,000,000.

Design Engineer of substructure for Henry 108 Bridge (Napoleon, Ohio). The design project included front and rear abutments, post-tensioned pier caps, drilled shafts and piles. A three dimensional SAP2000 model was used to analyze the abutments and the caps; special spreadsheet was done to design the post-tensioned beam cap. The bridge was completed only in 9 months. The project recently won awards from PCI, PCA, and PTI. The construction cost for the bridge was \$19,000,000.



# Tom Rayburn

## 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 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 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.

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- 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 Fly-overs 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.



## **Education**

A.S. Survey Technology, West Virginia University Institute of Technology, 1977

## **Professional Experience**

Mr. Cruikshank has almost 40 years of experience in the right of way and utilities fields. His duties include gathering information pertaining to right-of-way acquisition for highway projects, more specifically deed research and correspondence with private and commercial property owners for purpose of development of right-of-way plans associated with property maps. He is also proficient in the preparation of legal descriptions for properties to be purchased for the purpose of highway construction.

Additionally, Mr. Cruikshank is responsible for coordinating utility activities for highway projects, including determination of utilities affected by proposed highway projects, as well as the field location of these utilities. He also maintains correspondence with utility owners for the purpose of developing plans for relocation of utilities affected by highway construction.

## **Representative Projects**

**US Route 35 – Couch to Little Fivemile:** This project consists of 2.8 miles of four-lane divided highway, 0.5 miles of access road design, one at-grade intersection, and two sets of twin structures. This project included approximately 3.7 million cubic yards of excavation, with an estimated total construction cost of \$30 million. The right-of-way design for this project consisted of takes from approximately 10 parcels and writing of legal descriptions.

**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. The right-of-way design for this project consisted of takes from approximately 54 parcels and writing of legal descriptions.

**Corridor H - Davis to Bismarck:** The roadway design portion of this project consisted of 1.75 miles of four-lane divided highway, one bridge, two at-grade intersections, and a 6' X 6' concrete box culvert. This project has an estimated total construction cost of \$9 Million. The right-of-way design for this project consisted of the compilation of right-of-way information from five other consultants and the design of approximately 10.5 miles of right-of-way, takes from approximately 17 parcels, and writing of legal descriptions.

**Corridor H – Forman 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. The right-of-way design for this project consisted of takes from approximately 19 parcels and writing of legal descriptions.

Mr. Cruickshank has also been heavily involved in the review of many sets of right-of-way plans for WVDOH. Below is a list of such projects.

- Corridor H – Scherr to Forman
- Corridor H – East of CR 3 to Forman Interchange
- Corridor H – Bismarck to Forman
- Meadowbrook Road

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# Firm Experience





## Projects

### Ironton Riverfront Docks Project



**CLIENT:**  
City of Ironton, Ohio

Katrina Keith, Mayor  
City of Ironton, Ohio  
301 South Third Street  
Ironton, Ohio 45638  
Phone: 740.532.3833

**COST:** \$668,877

E.L. Robinson Engineering is responsible for project planning, funding, USACE permitting, design, and construction management of the installation of transient boat docks at the Ironton, Ohio Riverfront. The project provides 30 transient boat slips along 450 linear feet of floating dock, a 230 foot long sheet piling retaining wall and river walk, and an aluminum gangway to provide access to the floating docks from the river walk.



## Gallipolis Riverfront Improvements



**CLIENT:**  
City of Gallipolis, Ohio

**Eugene Green, City Manager**  
City of Gallipolis, Ohio  
2020 Chestnut Street  
Ironton, Ohio 45631  
Phone: 740.446.1789

**COST:** \$792,250

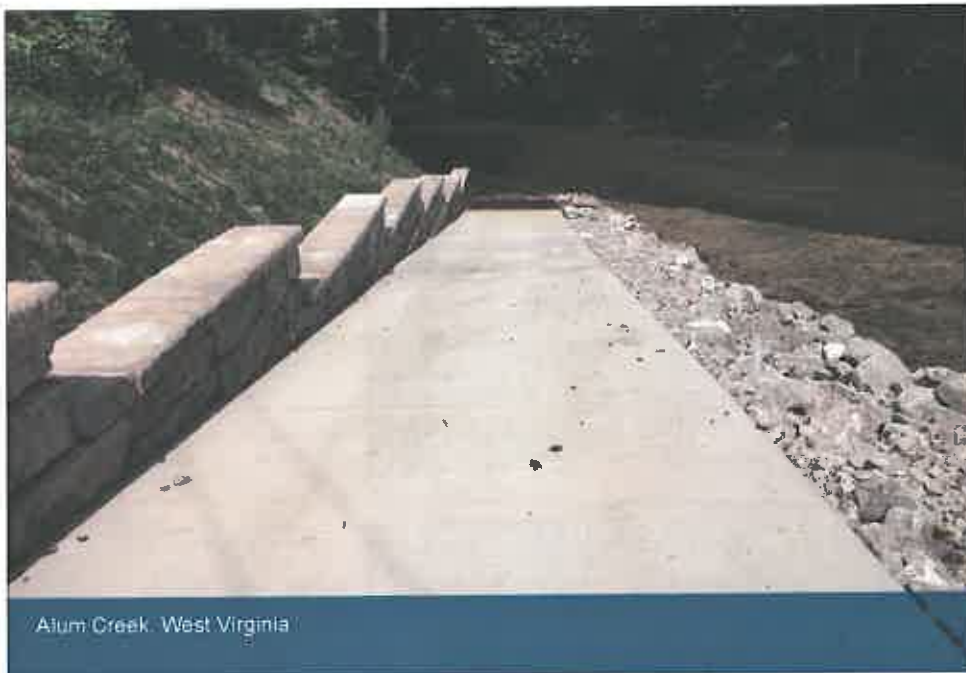
E.L. Robinson Engineering is responsible for project planning, permitting, design, and construction management of Riverfront Access Improvements for the City of Gallipolis, Ohio. The project provides upgrades to the existing river access including a new access road, 37 additional boat trailer parking spaces with make ready and tie down areas, 9 vehicle parking spaces, new floating courtesy dock and gangway at the existing boat ramp, parking lot lighting, and concrete amphitheater seating.



## Projects

### Little Coal River Boat Ramp at Lincoln / Kanawha County Line near Alum Creek, WV

**CLIENT:**  
West Virginia Division of  
Natural Resources



WVDNR retained E.L. Robinson in 2017 to prepare survey, geotechnical evaluation, and construction documents for upgrades of this existing access site near the US 119 Bridge off of County Route 8.

The site related elements ELR will design are:

- Upgrade the existing road into the site.
- New concrete ramp built to the river's edge to allow for vehicles with boats easier water access to unload via trailer or roof racks.
- Entry sign.
- Parking for vehicles and trailered vehicles.
- Gates to prevent public access under US 119 Bridge.



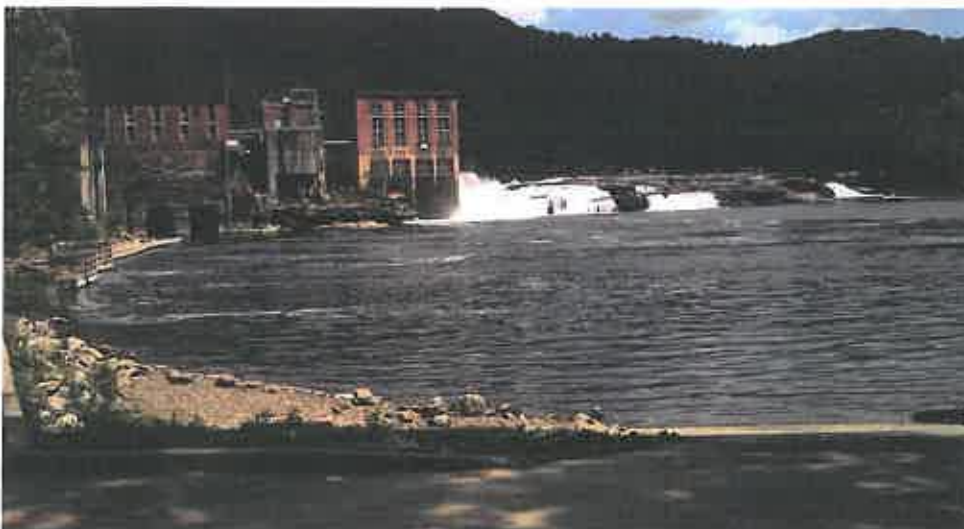
## Kanawha Falls Public Access



**CLIENT:**  
West Virginia Division of Natural Resources

E.L. Robinson's landscape architects prepared construction documents for this unique natural landmark on the Kanawha River just down stream from its formation at Gauley Bridge. This project included a boat ramp, access road, parking facilities, fishing pier, trails, and picnic sites for this excellent fishing area as well as a very scenic tourist spot along US Route 60 in Fayette County.

This project was completed by E.L. Robinson's landscape architects prior to their affiliation with the firm.



## Projects

### Coal Grove Ice Creek Boating & Fishing Access



**CLIENT:**  
State of Ohio, Fish and  
Wildlife

**LOCATION:**  
Coal Grove, Lawrence  
County, Ohio

E.L. Robinson Engineering Co. (ELR) was retained by the Ohio Fish and Wildlife Commission to prepare plans for a new boat launch and fishing access facility in Coal Grove, Ohio. The facility was proposed at the confluence of Ice Creek and the Ohio River. ELR prepared a schematic design, phasing recommendations, layout plans, grading and drainage plans, erosion and sediment control plans, typical sections, roadway profiles, sewage pumpout facility details, and other miscellaneous plans and details for this outdoor recreation project.

Currently under construction, Phase I will be complete by the spring 2007 boating season. The project will include asphalt space enough to park 30 vehicles with boat trailers, 10 regular car parking spaces, concrete boat launch, floating dock sections on each side of the new boat launch, a make-ready lane and tie-down lane, and other miscellaneous site amenities. Phase II will include a newly paved exit loop road, 14 additional vehicle/trailer parking spaces, and a unique coin-operated sewage pumpout facility for exiting boats.

## Forks of Coal State Natural Area/Claudia L. Workman Wildlife Education Center



**CLIENT:**  
West Virginia Division of Natural Resources

WVDNR retained E.L. Robinson in 2015 to prepare a master plan for this 100 plus acre site donated to the State of West Virginia for the development of the state's first natural area. The site is located at the forks of the Big Coal and Little Coal River, approximately twenty miles from downtown Charleston.

In 2015, WVDNR retained the team of E.L. Robinson Engineering and ZMM Architects to prepare construction documents for the Forks of Coal Natural Area and the Wildlife Education Center.

This site related elements ELR will design are:

- Access road off US 119 and car and bus parking area for the Claudia L. Workman Wildlife Education Center
- Site development for the Education Center including entry courtyard and outdoor classroom/amphitheater
- Entry sign
- Trailhead parking
- Waterline extension from the Lincoln County PSD and an onsite sewage treatment facility for the education center
- Landscape plans for the center
- Other pedestrian linkages

## Projects

### South Mill Creek Lake Area



CLIENT:  
U.S. Natural Resources  
Conservation Service

Andy Deichert  
1550 Earl Cove Road Suite 200,  
Morgantown, WV 26505  
Phone:304.284.7540

E.L. Robinson's landscape architects provided Master planning and construction documents for the 100 car/trailer parking lot, access road, boat ramp, accessible fishing dock, pit toilet, and picnic facilities for South Mill Creek Lake recreation development.

This project was completed by E.L. Robinson's landscape architect prior to their affiliation with the firm.



## Mud River Recreation Area



**CLIENT:**  
U.S. Natural Resources  
Conservation Service

Andy Deichert  
1550 Earl Cove Road Suite 200,  
Morgantown, WV 26505  
Phone:304.284.7540

E.L. Robinson's landscape architects provided a master plan and construction documents for the development of a 200-acre recreation facility associated with a new flood control lake on the Upper Mud River in rural Lincoln County, WV. The recreational use area features a diverse natural habitat with steeply sloping mature beech, oak and hemlock forests, rock outcrops and upland meadows dotted with young maples and pine thickets. Historic Native American habitat is documented at a rock ledge shelter located on-site.

Development included 2 boat ramps and related parking, beach, bath house, picnic areas, shelters, trails, tot play playfields along new-formed park roads and parking areas. Utility service to the facility is provided through on-site water and wastewater systems for collection, distribution and treatment.

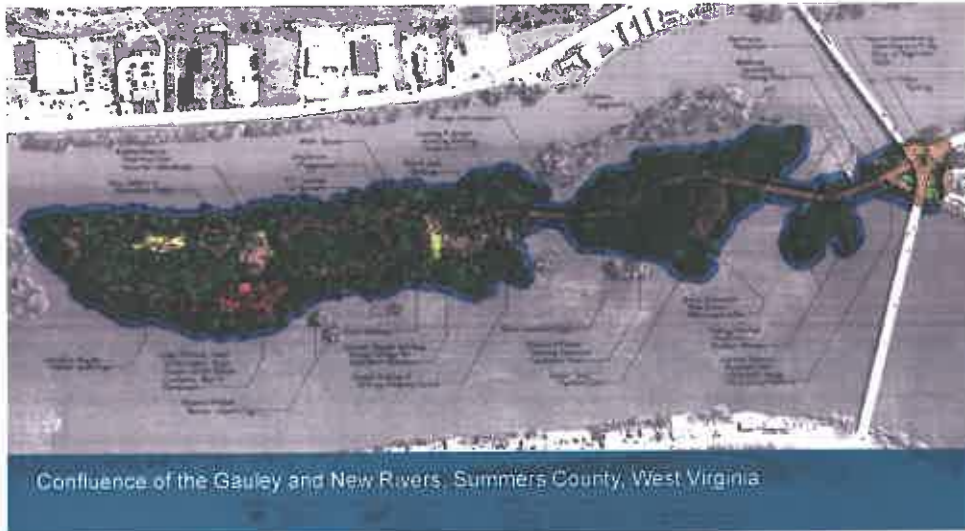
This project was completed by E.L. Robinson's landscape architects prior to their affiliation with the firm.





## Projects

### Hinton Islands Park Master Plan



**CLIENT:**  
The City of Hinton and Ritchie Cantrell, Land Owner

**LOCATION:**  
Hinton, Summers County,  
West Virginia

Mayor Cleo Mathews and land owner Ritchie Cantrell held a new vision for the future of a unique chain of islands at the confluence of the New and Gauley Rivers. Located inside the city limits of Hinton, the park would finally develop the often misused and neglected islands for public use. E.L. Robinson Engineering Co. (ELR) began the design process by first visiting the site performing a thorough site inventory and analysis. Then public meetings were held to gain input from the general public of their desires for the proposed improvements based on a prepared Concept Diagram.

Based on comments made concerning the Concept Diagram at the public meetings and conversations with the clients, a Final Master Plan was then prepared. The Plan covered three phases of development: Highest Priority (1-2 years), Key to Life of Park (3-5 years), and Long Term Development (5-10 years). Some of the improvements included new bridges to the islands to help reduce riverbank erosion, handicap accessible fishing docks, public boat launch facility, nature trails, picnic facilities, playgrounds, guided river tour headquarters, camping, cabin rentals, and a full-service lodge and retreat center.



## Stonewall Jackson Resort State Park Pedestrian Bridge



Weston, West Virginia.

**CLIENT:**  
West Virginia Division of Natural Resources

**COMPLETION DATE:**  
2011

**PROJECT COST:**  
\$400,000

**OUR ROLE:**  
Site design, structural engineering, landscape architecture, construction documents, bidding and construction observation.

West Virginia Division of Natural Resources received grant to build a pedestrian bridge approximately 900 feet across the lake from the lodge to the campground. An initial concept plan was developed for the bridge in 2008 which serves as the basis of the final design which EL Robinson was retained to develop.

It will be a 10' wide timber pile bridge with appropriate wooden decking and handrail. The accessible approach on the lodge side is complete and the contractor will be required to connect the bridge to that existing approach. At the campground end of the bridge an alignment will be shown on the plans that will allow for the Resort to build that accessible approach separate from the bridge construction.



Photo taken during construction.



## Projects

### Beech Fork State Park Lodge Feasibility Study



**CLIENT:**  
West Virginia Division of Natural Resources

**COMPLETION DATE:**  
2018 est.

**PROJECT COST:**  
Total Architecture & Site Related Cost \$35 Million

**OUR ROLE:**  
Site feasibility, studies, preliminary design, lead consultant involving civil, structural, transportation, geotechnical engineering, landscape architecture with additional services from other consultants.

West Virginia Division of Natural Resources has considered a lodge for Beech Fork State Park since before it was opened in 1979. Several studies were completed in the past examining six possible sites for lodges ranging in size from 75 to 150 rooms. The last studies completed in 1995 recommended a 150 room lodge at Stowers Branch.

WVDNR retained E.L. Robinson's landscape architects in 2008 to study a new site near the Beech Fork Lake dam and marina for the feasibility of building a 35, 50, or 75 room lodge. This study found from earth work calculation, cost estimates, and slope analysis maps that the Stowers Branch site was still the most desirable based on costs, proximity to the lake, and visual impact on the park.

In 2013, WVDNR retained the team of E.L. Robinson Engineering and ZMM Architects to prepare construction documents for a 75 room lodge at the Stowers Branch location. This site is located near the swimming beach owned and operated by US Army Corps of Engineers and two miles by road from the Beech Fork Lake Dam. In 2015, the project was put on hold after completion of the design development phase.

This site was selected after two previous studies completed in 1994 and 2008. It was concluded that after studying six other possible locations, the Stowers Branch Site proved to be the most desirable location. This study is the basis of WVDNR efforts to lease additional USACOE property for the state park's facilities expansion.



## Logan Pedestrian Bridge



Logan, West Virginia

**CLIENT:**  
City of Logan

**COMPLETION DATE:**  
December 2014

**PROJECT COST:**  
\$522,800

**OUR ROLE:**  
Survey, design, bidding through the City and construction administration

The City of Logan retained ELR to design a replacement for a 30 year old bridge. The proposed alignment will be 234' long and 6' wide meeting accessible design standards. The bridge connects Logan High School with a nearby residential neighborhood that is separated from the school due to a predominately dry channel of the Guyandotte River. Total cost of the project was \$522,800 when completed.



Logan Pedestrian Bridge Completed



## Projects

### Lake Erie Bluffs Pedestrian Bridge and Stairs



**CLIENT:**  
Lake Metroparks

**COMPLETION DATE:**  
May 2017 (Design)  
November 2017 (Construction)

**PROJECT COST:**  
\$81,000 (Design – Combined)  
\$405,000 (Construction – Combined)

**OUR ROLE:**  
Prime Consultant  
Roadway Design  
Bridge Design  
Geotechnical Design  
Stair Design

#### Stairs

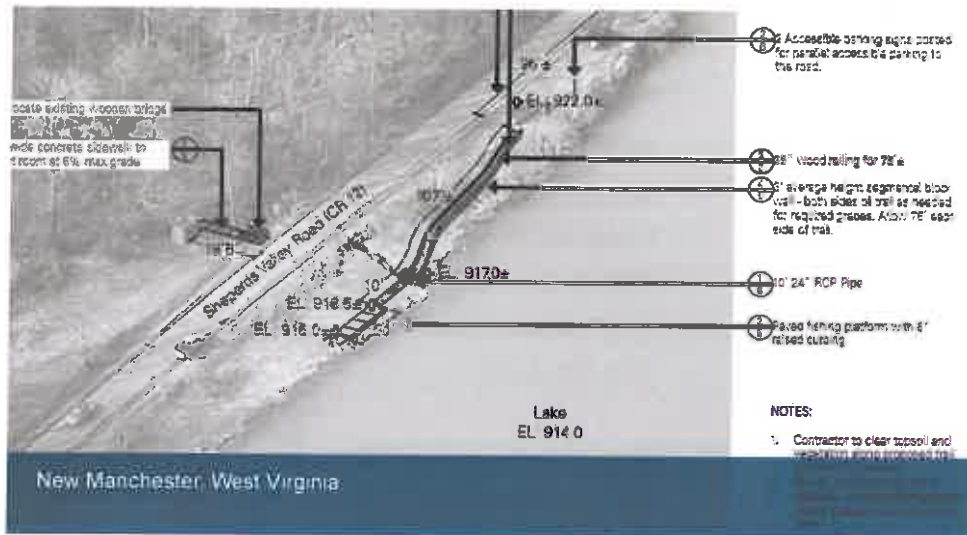
Lake Metroparks secured ELR's design services to design a set of stairs for users of the Lake Erie Bluffs Park in Perry, Ohio to navigate from the bluff to the beach area of Lake Erie. Currently, there is no direct access from the main parking lot and shelter area to the beach. ELR utilized a previously used stair design from the Fort Hill Stair project in Rocky River and adapted the design to the project site. Overall elevation gain was around 45'. Total project cost was \$275,000.

#### Pedestrian Bridge

E.L. Robinson was contracted by Lake Metroparks to provide professional engineering services for the analysis/conceptual phase, design development, and construction documentation for a new structure over a deep ravine located at the Lake Erie Bluffs Reservation. The new structure is a prefabricated, truss type bridge that is supported by concrete abutments. A study was performed to recommend an aluminum truss based on location, span length, structure weight and construction and maintenance cost estimates. In addition, ELR provided the recommended foundation type in the Structure Foundation Exploration Report. ELR provided all the necessary coordination to secure permitting as well as with local stakeholders. The total project cost was \$147,900.



## Tomlinson Run State Park Accessible Fishing Site



**CLIENT:**  
WV Division of Natural Resources

**COMPLETION DATE:**  
December 2015

**PROJECT COST:**  
\$57,767 est

**OUR ROLE:**  
Site design  
Material selection  
Construction documents  
Construction observation

ELR prepared construction documents for an accessible walkway meeting ADA guidelines from an existing parking area to the water edge. A 5' wide sidewalk within segmental block retaining walls and railing will be constructed to an enlarged 8' by 20' concrete paved area. A curbed barrier along the water edge of the paved fishing area allows close proximity to the park's lake for fishing. Additional elements included an accessible paved route to an existing restroom and appropriate signage.



## Business References



**Larry McDaniel, Mayor**

Village of Coal Grove  
513 Carlton Davidson Lane  
Coal Grove, OH 45638  
740-532-8875

**William R. "Bill" Archer, Commissioner**

Mercer County Commission  
County Courthouse  
1501 West Main Street  
Princeton, WV 25740  
304-487-8310

**Mark Scoular, Project Manager**

WVDOT-DOH Planning & Research Division  
Building 5, Room 450  
1900 Kanawha Boulevard, East  
Charleston, WV 25304  
304-558-9616

**Katrina Keith, Mayor**

City of Ironton  
301 South Third Street  
Ironton, OH  
740-532-3833

**Brad Leslie, PE, Assistant Chief**

WV Division of Natural Resources  
Parks and Recreation Division  
324 4th Avenue  
South Charleston, WV 25303  
304-558-2764

**Roger Wolfe, Project Manager**

WV Division of Natural Resources  
Parks and Recreation Division  
1000 Conference Center Drive  
Logan, WV 25601  
304-855-6100

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# Appendix:

## CEOI Required Documents







Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

State of West Virginia  
 Centralized Expression of Interest  
 02 -- Architect/Engr

Proc Folder: 568449

Doc Description: A/E Services for South Charleston Boat Ramp Improvements

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2019-04-08	2019-04-30 13:30:00	CEOI 0310 DNR1900000009	1

**BID RECEIVING LOCATION**

BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**

Vendor Name, Address and Telephone Number:

EL Robinson Engineering  
 2019 Washington Street, East  
 Charleston, WV 25305

304.841.2114

**FOR INFORMATION CONTACT THE BUYER**

Brittany E Ingraham  
 (304) 558-2157  
 brittany.e.ingraham@wv.gov

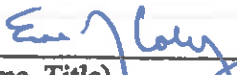

Signature X

FEIN # 55-0594633

DATE April 26, 2019

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

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

   
\_\_\_\_\_  
(Name, Title)  
**Eric Coberly, PE, Project Manager**  
\_\_\_\_\_  
(Printed Name and Title)  
**5088 Washington Street, West | Charleston, WV 25313**  
\_\_\_\_\_  
(Address)  
**304.841.2114 / 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.

**EL Robinson Engineering**

\_\_\_\_\_  
(Company)

   
\_\_\_\_\_  
(Authorized Signature) (Representative Name, Title)

**Eric Coberly, PE, Project Manager**

\_\_\_\_\_  
(Printed Name and Title of Authorized Representative)

**April 26, 2019**

\_\_\_\_\_  
(Date)

**304.841.2114 / 304.776.6426**

\_\_\_\_\_  
(Phone Number) (Fax Number)

West Virginia Ethics Commission  
Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: EL Robinson Engineering Address: 5088 Washington Street, West Charleston, WV 25313

Name of Authorized Agent: Brittany E Ingraham Address: 2019 Washington Street, East Charleston, WV 25305

Contract Number: CEOI 0310 DNR1900000009 Contract Description: A/E Services for South Charleston Boat Ramp Improvements

Governmental agency awarding contract: WVDNR

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: *Eric Coberly*

Date Signed: 4/26/19

**Notary Verification**

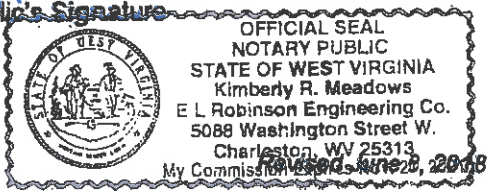
State of West Virginia, County of Kanawha:

I, Eric 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 26 day of April, 2019.

*Kimberly R. Meadows*  
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: EL Robinson Engineering

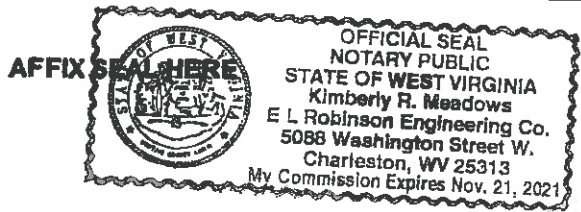
Authorized Signature: *Eric Colby* Date: April 26, 2019

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 26 day of April, 2019.

My Commission expires November, 2019.



NOTARY PUBLIC *Kimberly R. Meadows*

Purchasing Affidavit (Revised 01/10/2018)

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: CEOI DNR19\*09**

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

(Check the box next to each addendum received)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2            | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4            | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5            | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

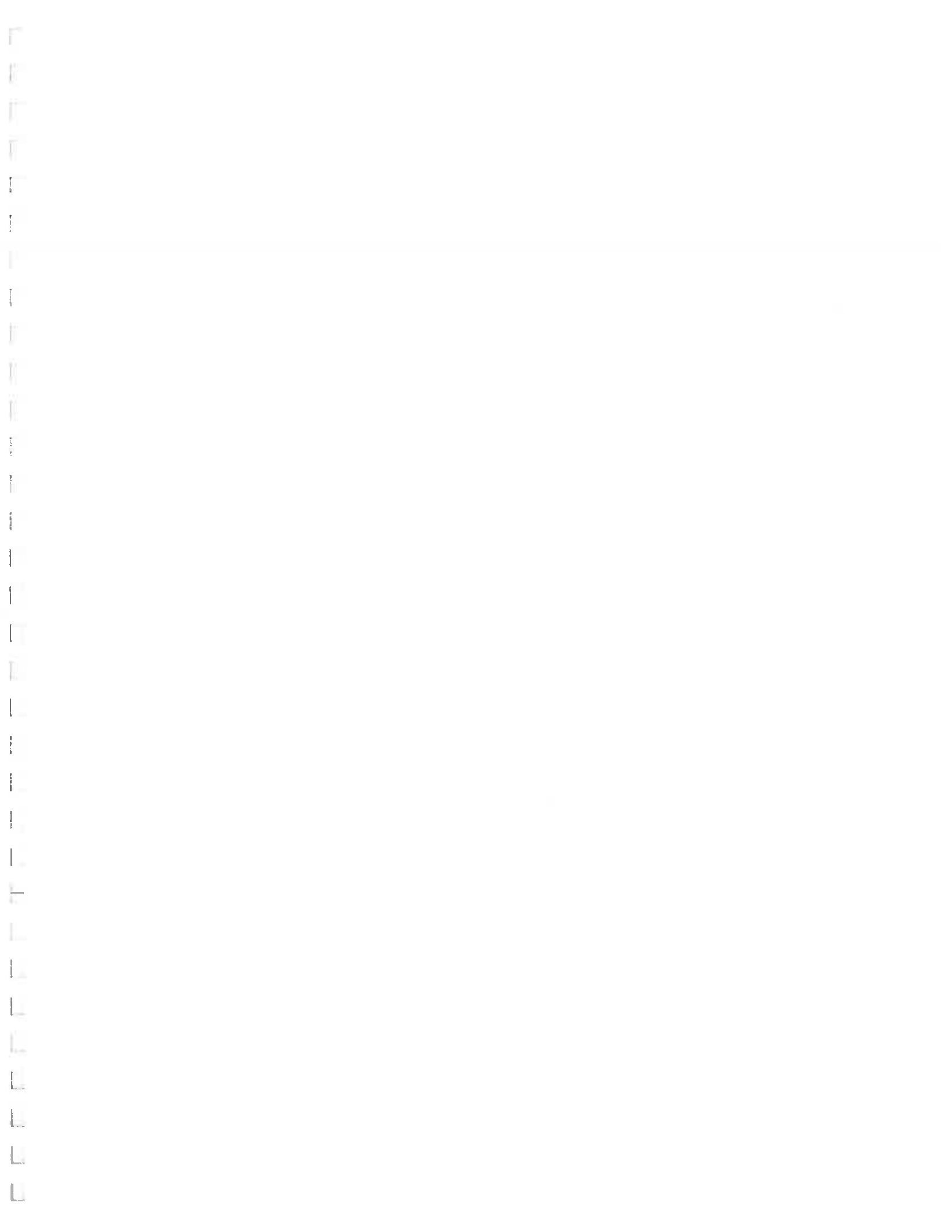
**EL Robinson Engineering**

\_\_\_\_\_  
Company

  
\_\_\_\_\_  
Authorized Signature

4-29-19  
\_\_\_\_\_  
Date

**NOTE:** This addendum acknowledgment should be submitted with the bid to expedite document processing.  
Revised 6/8/2012





**E.L. ROBINSON**  
ENGINEERING