



A/E Services for the New Campground at Cass Senic Railroad State Park

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



Expression of Interest

CEOI 0310 DNR 2200000005

SUBMITTED SEPTEMBER 28, 2021



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WV Department of Administration - Purchasing Division
ATTN: Joseph E. Hager III
2019 Washington Street, East
Charleston, WV 25305

Re: Expression of Interest for A/E Services for the New Campground at Cass Scenic Railroad State Park

Dear Mr. Hager:

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 campground facilities, rail-trails, and recreational improvement projects all across West Virginia, including: Pipestem State Park Campgrounds; Beech Fork State Park Campgrounds; Northbend State Park Campgrounds; Stonewall Jackson Resort State Park Pedestrian Bridge; Little Coal River Boat Ramp; Kanawha Falls Public Access; and many other campgrounds, waterfront developments and recreation projects in communities across West Virginia and the surrounding States

We have also provided planning and design for many projects in Pocahontas County and eastern West Virginia. E.L. Robinson recently completed the design and construction of the new Discovery Junction Park in Marlinton, WV. ELR is currently working on design improvements for the water system for the Pocahontas PSC, which will cover areas of Mace and Snowshoe, WV. ELR prepared construction plans for storm sewer and drainage improvements for 26 campsites in North Bend State Park, along with upgrading electrical service to the campsites with a 30 amp to 50 amp service step-up. ELR also recently provided detailed design and bidding services for large expansions of the Beech Fork State Park and Pipestem State Park Campgrounds. ELR is currently in the punch list stages of construction of 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 Meadow River near Charmco, WV.

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 and specifically, campground designs, 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, West Virginia office.

We welcome the opportunity to assist the WVDNR – Parks and Recreation and Cass Scenic Railroad State Park 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,

R. Todd Schoolcraft, PLA, ASLA, LEED®GA, Project Manager
tschoolcraft@elrobinson.com

Eric Coberly, PE, Project Principal
ecoberly@elrobinson.com

Table of Contents



Firm Overview	5
Qualification Statement	6-7
Firm's Staffing / Capacity to Perform Project's Scope	8-9
Schedule & Deadlines / Budget & Cost Accounting	10
Project Approach	11
Our Project Team	12
Experience / Capabilities of the Project Team	13-33
Ed Robinson, PE, PS - Project QA/QC Coordinator	14
Eric Coberly, PE - Project Principal	16
Todd Schoolcraft, PLA, ASLA, LEED®GA - Project Manager	18
Mark McGettigan, PE - Project Engineer	20
Tim Scott, PLA - Landscape Architect	22
Gracelyn Carper - Landscape Designer	24
Faheem Amhad, PE - Hydraulic Engineer	26
Nasser Al-Zoubi, PE - Hydraulic Engineer	28
Tom Rayburn - Chief Surveyor	30
Jeff Petry - Civil Engineer	32
Projects	35-50
North Bend State Park Campground Upgrades	34
Pipestem State Park Campground	35
Beech Fork Campground	36
Little Coal River Boat Ramp Access	37
Blackwater Falls State Park Sewage Treatment Plant Replacement	38
Meadow River Boat Ramp	39
Forks of Coal State Natural Area	40
Tygart Lake Wastewater Treatment Plant	41
Upper Mud River Lake Recreation Area	42
BC&G Railroad and Trail Project	43
Stonewall Jackson Resort Pedestrian Bridge	44
Beech Fork State Park Lodge Development	45
Stonewall Jackson State Park Lodge, Campground	46
Lake Erie Bluffs Pedestrian Bridge and Stairs	47
Tomlinson Run State Park Accessible Fishing Site	48
Business References	49
Appendix	51
Expression of Interest	
Designated Contact	
Disclosure of Interested Parties	
Purchasing Affidavit	
Addendum 1	

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 campgrounds, boat docks 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 Charleston, West Virginia, office 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 New Campground at Cass Scenic Railroad State Park.

1. North Bend State Park Campground Upgrades - Harrisville, WV

Scope: Prepared construction documents for mitigating the standing water present in many of the 26 sites.

2. Pipestem State Park Campground - Pipestem, WV

Scope: Project planning, detailed design, permitting, construction documents, and construction management.

3. Beech Fork Campground - Wayne County, WV

Scope: Project planning, detailed design, permitting, construction documents, and construction management.

4. Little Coal River Boat Ramp Access - Alum Creek, WV

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.

5. Blackwater Falls State Park Sewage Treatment Plant Replacement - Davis, WV

Scope: This project included designing a new concrete sewage treatment plant which eliminates the potential for rust.

6. Meadow River Boat Ramp- Charmco, WV

Scope: Prepared a concept designs, layout plans, grading and drainage plans, typical sections, ramp profile, and other miscellaneous plans and details for this outdoor recreation project.

7. 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.

8. Tygart Lake Wastewater Treatment Plant - Grafton, WV

Scope: provided planning, design and construction administration services for a new waste water treatment plant.

9. 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.

10. BC&G Railroad and Trail Project - Clay, WV

Scope: Project planning, detailed design, permitting, construction documents, and construction management.

11. Stonewall Jackson Resort State Park Pedestrian Bridge - Weston, WV

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

12. Beech Fork State Park Lodge Development - Lavalette, WV

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

13. Stonewall Jackson State Park Lodge, Campground - Roanoke, WV

Scope: Responsible for master planning and site construction design for the 2,000 acre resort.

14. Lake Erie Bluffs Pedestrian Bridge and Stairs - Perry, OH

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

15. Tomlinson 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. Eric Coberly will serve as Project Principal. 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.

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. Todd Schoolcraft will serve as Project Manager. 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. Mark McGettigan will serve as Project Engineer. Mr. McGettigan has nearly 20 years of experience as an infrastructure engineer. He has extensive experience in project planning, funding coordination and water and wastewater design. Mr. McGettigan has taken many large water and wastewater projects from the initial development phase through the construction phase. His experience includes writing preliminary engineering reports, developing funding scenarios, designing systems, developing plans and specifications, overseeing the bidding process and managing the construction inspection. Specifically, Mark was the primary design engineer and task leader on the Pipestem State Park Campground and Beech Fork Campground improvements, which is currently in the bidding stage for the WVDNR.

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.

Ms. Gracelyn Carper, has a diverse portfolio of experience in the fields of landscape architecture and land planning, as well as freelance experience as a fledgling artist. Ms. Carper has extensive experience working in a group setting, effectively leading design teams utilizing effective problem-solving skills. Major areas of specialty include color renderings and aerial oblique perspectives, proposal preparation, grant writing, land planning, computer aided drafting and design, and planting design. Ms. Carper was also a member of SSLA (Student Society of Landscape Architects) for four years.

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. 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.

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 New Campground at Cass Scenic Railroad State Park.

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., Cass Scenic Railroad State Park Staff, and other stakeholders in the Pocahontas County area 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 New Campground at Cass Scenic Railroad State Park. Professional services may include the following:

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

- Utilize existing GIS-based mapping for the proposed campground facility and the greater Cass Scenic Railroad State Park property.
- Augment existing mapping with a field survey to establish minimum two-foot contours, Ordinary High Water Mark (OHWM), 100-year Flood Elevation, remnants of the historic W.Va. Pulp and Paper Co. sawmill, other structures, critical spot elevations, and existing utilities and infrastructure on-site.

Data Collection and Project Scoping:

- The railroad at Cass Scenic Railroad State Park consists of the Cass Scenic Railroad, an 11-mile long heritage railway owned by the West Virginia State Rail Authority and operated by the Durbin and Greenbrier Valley Railroad.
- Cass S.P. sits along the Greenbrier River, the longest untamed (unblocked) river in the Eastern United States. The Greenbrier River is a tributary of the New River, 162 miles long, formed at Durbin in northern Pocahontas County by the confluence of the East Fork Greenbrier River and the West Fork Greenbrier River.
- Currently the existing overnight accommodations at Cass consists of 20 Company Houses, which feature two stories and accommodate anywhere from 4 to 15 guests. Also available is the very remote Bald Knob wilderness cabin.
 - The property is owned by the State of WV Department of Natural Resources.
- Consider permitting requirements such as the USACE 401/404 permits; US Fish & Wildlife, SHPO, NPDES, etc.

Project Development:

- Inventory existing state park facilities, historic sawmill, and available utilities.
- Meet with WVDNR and Cass Scenic Railroad State Park staff to identify key components for development and potential issues.
- Develop a preliminary plan for the campground accommodations.
- 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.



View of the historic sawmill



Close-up view of the mill equipment



Existing abandoned brick structure at Cass



Our Project Team



WV Division of Natural Resources

Mr. Brad Leslie, PE, Chief of Engineering



QA/QC

Ed Robinson, PE, PS

Project Principal

Eric Coberly, PE

Project Manager

Todd Schoolcraft, PLA

Hydraulic Engineering

Faheem Ahmad, PE
Nasser Al-Zoubi, PE

Surveying & Mapping

Tom Rayburn, PS
John Cruikshank

Landscape Architecture

Todd Schoolcraft, PLA
Tim Scott, PLA
Gracelyn Carper

Civil Engineering

Mark McGettigan, PE
Jeff Petry, PE

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

[continued]

Honors Awarded

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



Eric Coberly, P.E.

Project Principal



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.

[continued]

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

R. Todd Schoolcraft, PLA, ASLA, LEED® GA Project Manager



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 Army 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.

North Bend Rail-Trail Preservation Project for the West Virginia Department of Natural Resources, Parks and Recreation Division, and the West Virginia Division of Highways, along US 50, West Virginia. Project Manager. Responsible for field inventory and analysis, base map preparation, concept development, detailed design, and construction documents preparation.

[continued]

Scope of work consisted of developing plans to rehabilitate 30 miles of the Trail along Route 50, beginning at Wolf Summit (just west of Clarksburg) and ending just outside of Pennsboro. The Phase I construction will focus on the Salem area, and the Trail from Smithburg to east Toll Gate. Proposed base bid improvements include gravel trail resurfacing, ditch clean-out, culvert installation, drain inlets, riprap erosion protection, sinkhole repairs, vehicular access gates, wood bollards, split-rail fencing, and signage. Alternate bid work includes a pervious asphalt overlay for the trail surface, and bridge decking replacement. A Federal grant of more than \$1.05 million was utilized to remedy flooding and erosion in the first, and most damaged section of trail in Doddridge and Harrison Counties. The North Bend Trail is now part of the Industrial Heartlands Trail, and when completed, will create a 1,400 mile loop through Pennsylvania, New York, Ohio and West Virginia.

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.

Pennsboro Trailhead, Old Stone House/Boarding House, and Historic B&O Train Depot Improvements for the City of Pennsboro and the Ritchie County Historical Society in Pennsboro, West Virginia. Project Landscape Architect. Responsible for concept planning, detailed design, construction documents, bidding, construction administration and construction inspection. The Ritchie County Historical Society, in conjunction with the City of Pennsboro, solicited services for the planning and detailed design of a new trailhead along the North Bend State Park Rail Trail. Site improvements include the first known use of pervious or porous asphalt in West Virginia as the pavement surface for the parking area. A rain garden/bio-retention swale was also included as some of the green, sustainable design solutions proposed. Construction administration and inspection services were provided for the trailhead work, plus restoration of the Old Stone House and Boarding House, built in 1810. Now a museum, the Old Stone House/Boarding House once served as an inn for Americans heading for the frontier to rest their weary bones before continuing westward. Construction services also included the continued restoration of the historic B&O Railroad Depot in Pennsboro, also currently serving as a museum. This project was awarded an ASLA Merit Award.

Little Beaver State Park Campgrounds for the West Virginia Department of Natural Resources, Park and Recreation Division, Beaver, West Virginia. Landscape Architect. Little Beaver State Park is located near Beckley, West Virginia. The park has been a day use destination for the area residents for many years. With the completion of Interstate 64, within 10 minutes from the park and given the tourist growth in southern West Virginia, WV State Parks requested the design team of landscape architects to evaluate the feasibility of a campground on presently unused property of the park. Upon completion of the feasibility study, ELR's landscape architects completed construction documents for a 75-unit campground located on a mixture of woodland and meadow lands. The campground was accessed by a new one-mile road. The site amenities included utilities at each campsite, three bathhouses, a check in station and a mixture of pull-through and back-in sites.

Cedar Creek State Park Campgrounds Expansion for the West Virginia Department of Natural Resources, Park and Recreation Division, Gilmer County, West Virginia. Project Manager. Set on 2,588 wooded acres near Glenville in West Virginia's central region, Cedar Creek State Park's rolling hills and wide valleys provide an ideal backdrop for a variety of recreational activities from hiking to fishing. Park highlights include a furnished one-room schoolhouse and a fully restored log cabin, which serves as the campground check-in station, 57 standard campsites, with 36 of the 57 have running water hookups, electric hookups, parking pads, grill, picnic table, generously spaced. WV State Parks requested the design team of landscape architects to evaluate the feasibility of a campground expansion on presently unused property of the park. The concept plan was completed, and the WVDNR used the plan to further develop the existing campgrounds at scenic Cedar Creek State Park.



Mark McGettigan, P.E.

Project Engineer



Education

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

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

Registrations

Registered Professional Engineer in West Virginia

Professional Experience

Mr. McGettigan has nearly 20 years of experience as an infrastructure engineer. He has extensive experience in project planning, funding coordination and water and wastewater design. Mr. McGettigan has taken many large water and wastewater projects from the initial development phase through the construction phase. His experience includes writing preliminary engineering reports, developing funding scenarios, designing systems, developing plans and specifications, overseeing the bidding process and managing the construction inspection. Additionally, he has developed specifications and managed construction inspection for land development and utility construction projects.

Professional Memberships

American Society of Civil Engineers

Representative Projects

Mr. McGettigan has served as Engineer and/or Project Manager on the following projects:

Crum PSD Route 152 Phase I Water Project

Crum PSD Route 152 Phase II Water Project

Mingo County PSD Ben Creek Phase I

Mingo County PSD Dingess Phase I & II Water Distribution System Extension

Mingo County PSD Upper Marrowbone

Mingo County PSD Jennies Creek

Mingo County PSD Emergency Intake Project

Lavalette PSD US Route 52 Waterline Extension Project

Lavalette PSD Crockett and Millers Fork Waterline Extension

Lavalette PSD Route 37 Waterline Extension Project

Lavalette PSD Nestflow Phases I & II Waterline Extension Project

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Crum PSD Mill Creek Waterline Extension Project

Crum PSD Route 152 Phase I Waterline Extension Project

Delbarton Sewer Line Replacement Project

Town of Pax Waterline Relocation Project

Glen Rogers Waterline Extension Project for WVDEP-AML

Charles Pointe North Landbay Phase I Infrastructure Project

Charles Pointe South Landbay Phases I & II Infrastructure Project



Tim Scott, PLA Landscape Architect



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.



Gracelyn Carper Landscape Designer



Education

B.S. Landscape Architecture, West Virginia University, 2019

CADD Technician Certificate, Carver Career Center, 2015

Graduate, Herbert Hoover High School, 2015

Registrations

Currently preparing to sit for the LARE exam for registration in West Virginia

Professional Experience

Ms. Carper has a diverse portfolio of experience in the fields of landscape architecture and land planning, as well as free-lance experience as a fledgling artist. Ms. Carper has extensive experience working in a group setting, effectively leading design teams utilizing effective problem-solving skills. Major areas of specialty include color renderings and aerial oblique perspectives, proposal preparation, grant writing, land planning, computer aided drafting and design, and planting design. Ms. Carper was also a member of SSLA (Student Society of Landscape Architects) for four years.

Representative Projects

Mary Ingles Draper Summers-Mercer County Trail Mapping for the Summers County Commission and the Mercer County Commission, New River Gorge, West Virginia. Land Planner. Responsible for base map preparation, content development, and graphic design. Was asked by the Commissions of both Mercer and Summers County to prepare a graphically-oriented map that captured the extent of the existing and proposed trail system crossing multiple counties and two states near southern West Virginia. The trail system encapsulates the famous Mary Ingles Draper trek escaping Shawnee Indian capture, as well as portions of the Great Eastern Trail, and Bluestone Adventure Trail, within the New River Gorge and Bluestone River Valley.

Williamson Streetscape and Trail Improvements Grant Funding Graphics for the City of Williamson, Mingo County, West Virginia. Graphic Designer. Responsible for aerial mapping preparation, graphic layout, and design. Developed graphic representations of proposed streetscape and trail improvements for the City of Williamson to use as exhibits to support their WVDOH Transportation Alternatives grant application.

Wayne Sidewalk Improvements for the Town of Wayne, Wayne County, West Virginia. CAD Support. Responsible for computer-aided drafting and design, and construction document production. Developed detailed design plans and construction documents for sidewalk improvements along Keyser Street, Hendricks Street, and Hall Street in downtown Wayne, WV. Project consisted of five blocks of sidewalk improvements, tying commercial business areas with residential areas with new safe, convenient, ADA-accessible walkways. Amenities included 445 square yards of concrete sidewalks, curb ramps with truncated domes, concrete cheek wall, aluminum handrailing, concrete curbs, driveway curb cuts, crosswalks, storm sewer improvements, signage and parking meters.

Harrisville Sidewalk Improvements Phase III for the Town of Harrisville, Ritchie County, West Virginia. CAD Design. Responsible for computer-aided drafting and design, and construction document production. Developed detailed design plans and construction documents for sidewalk improvements along East South Street and South Stout Street in downtown Harrisville, WV. Project consisted of two blocks of sidewalk improvements, tying commercial business areas and residential areas with new safe, convenient, ADA-accessible walkways. Amenities included 648 square yards of concrete sidewalks, curb ramps with truncated domes, concrete steps, structural concrete wall, concrete curbs, driveway curb cuts, crosswalks, storm sewer improvements, asphalt patching and signage.

Domino's Pizza Ashland Site Development for the Domino's Real Estate Division, Lexington, Kentucky. CAD Designer. Responsible for field inventory, computer-aided drafting and design, and construction document production. Performed field inventory and analysis functions for the final design, as well as developing detailed design plans and construction documents. The project consisted of constructing a new Domino's Pizza restaurant on a 0.29-acre site in downtown Ashland, KY. The project included demolition plans, a 20-car parking lot, drive-thru lane, siting of a 3,200-sf commercial building, sidewalks and handicap accessible curb ramps, site utilities and landscaping.

Logan Boat Ramp and Riverfront Park Concepts for the City of Logan, Logan County, West Virginia. Land Planner. Responsible for aerial mapping preparation, graphic layout, and design. Developed graphic representations of proposed boat launch and riverfront park improvements along the Guyandotte River for the City of Logan to use as exhibits to gain local support and seek out funding through various grant applications.

Discovery Junction Community Park, Town of Marlinton, Pocahontas County, West Virginia. Landscape Designer. Responsible for field inventory, computer-aided drafting and design, and construction document production. A new park is set to literally SPRING up along the scenic Greenbrier River in beautiful Pocahontas County, West Virginia: Discovery Junction Community Park. Working with the Town of Marlinton's Park Steering Committee, E.L. Robinson's landscape architects developed plans for the 0.33-acre park on a vacant lot in the center of downtown Marlinton. Strategically located immediately beside the historic Pocahontas Opera House (c. 1910), on the Appalachian Waters Scenic Byway, and within walking distance to the Greenbrier River Rail-Trail, the new park will feature an exposed timber-frame outdoor stage and farmer's market walk, and a spray park that will feature an animated black bear scaling a large tree, with water cascading down from the tree dripline. The stage will be outfitted to allow for weekend outdoor concerts and plays, as well as doubling as a farmer's market for local agriculturalists to market locally-grown produce. The stage will be constructed of locally harvested timber and veneered with stone quarried from local sources. The park will also utilize environmentally friendly, green materials such as park benches made from recycled plastics, enviro-pavers, bio-retention rain gardens and pollinator gardens with native and naturalized plant materials.

Lewis County ADA Design-Build Improvements, Jane Lew and Weston, West Virginia. Landscape Designer. Responsible for field inventory, computer-aided drafting and design, and construction document production. ELR and McClanahan Construction prepared construction plans, permits, DD-811 exception forms, and as-built record drawings for 160 curb ramps located in Jane Lew and Weston, in Lewis County, WV. The project was a design-build joint venture to bring into Americans with Disabilities Act (ADA) compliance sidewalks in 160 different locations along U.S. Routes 33 and 19 in Weston, and U.S. Route 19 and County Route 7 in Jane Lew. ELR worked closely with McClanahan Construction, the WVDOH District 7 Engineer's Office, and WVDOT ADA Coordinator Raymond C. Patrick to develop plans to construct the 160 curb ramps and sidewalks in accordance with the Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG), and DOH Design Directives (DD) 811 and 813. ELR's staff utilized a two-phase approach to the design process, Phase 1 identifying standard curb ramp locations and types, for early review/approval efforts. Phase 2 identified non-standard curb ramps requiring surveying or additional detail beyond the typical WVDOH curb ramp and accessibility details. Construction was completed by the April 26, 2019 deadline, with only one change order (client added a Type B drain inlet and storm pipe).



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.

Nasser Al-Zoubi, P.E.

Hydraulic Engineer



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 checked. 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.



Jeff Petry

Civil Engineering



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

Firm Experience



Projects

North Bend State Park Campground Upgrades



Harrisville, West Virginia

ELR prepared construction documents for mitigating the standing water present in many of the 26 sites due to years of added road pavement and lack of adequate cross slope and drainage swales throughout the campground. Also, provided an upgrade of the existing electrical service to the campsites by increasing the sites from 30 amp to 50 amp service which requires extending 3 phase service 1600' to the campground. Additionally the park staff wants to establish individual water hook ups at all 26 campsites. Only five (5) centralized faucets exist throughout the campground. To facilitate this, an aging 2" waterline to the campground will require replacement with 1600 feet of new 4" waterline. Lastly staff expressed an interest in evaluating the cost of a prefabricated concrete restroom facility for the additional 22 campsites that have no facilities lessening the burden on the existing restroom / bathhouse in the original 26 site campsites.

CLIENT:

WV Division of Natural Resources

Mr. Brad Leslie, P.E.

Assistant Chief

West Virginia Division of Natural
Resources Parks and Recreation
Section

324 4th Avenue

South Charleston, WV 25303

COMPLETION DATE:

2016

PROJECT COST:

\$250,000 (first phase) est

OUR ROLE:

Topographical survey, civil and
electrical engineering, material
selection, construction documents,
and construction observation



Pipestem Resort State Park



Summers County, West Virginia

E.L. Robinson Engineering teamed with Miller Engineering to provide design services to the West Virginia Division of Natural Resources, Parks and Recreation Section, to extend utility hookups to 32 new campsites in the scenic campgrounds of Pipestem Resort State Park. The WVDNR requested electrical hookups providing 50 amp and 100 amp service to the campsites, working closely with the local power company to provide capacity in the existing system. The water pressures of the existing water system was evaluated to determine the capacity to extend the existing water infrastructure, and the existing sewer collection and treatment system was evaluated to confirm the system could adequately handle the increased flows. Once this was completed, water service was extended to the new campsites, and sewer hookups were provided. ELR also evaluated the character and cost of providing a new prefabricated bathhouse facility for the new campsite facility. ELR and Miller Engineering ultimately provided detailed design and construction plans for the construction of the proposed improvements for 32 campsites.

CLIENT:

WV Division of Natural Resources

Mr. Brad Leslie, P.E.

Assistant Chief

West Virginia Division of Natural
Resources Parks and Recreation
Section

324 4th Avenue

South Charleston, WV 25303

COMPLETION DATE:

May 14, 2020

PROJECT COST:

\$338,923 (Construction)

OUR ROLE:

Surveying and Base Mapping; Site
Inventory and Preliminary Design;
Construction Documents; Bidding;
Construction Administration and
Periodic Construction Observation



Projects

Beech Fork Campground



Wayne County, West Virginia

E.L. Robinson Engineering teamed with Miller Engineering to provide design services to the West Virginia Division of Natural Resources, Parks and Recreation Section, to extend utility hookups to 36 campsites in the lakeside campgrounds of Beech Fork Lake State Park. The WVDNR requested electrical hookups providing 50 amp and 100 amp service to the campsites, working closely with the local power company to provide capacity in the existing system. The water pressures of the existing water system was evaluated to determine the capacity to extend the existing water infrastructure, and the existing sewer collection and treatment system was evaluated to confirm the system could adequately handle the increased flows. Once this was completed, water service was extended to the campsites, and sewer hookups were provided. ELR also evaluated the character and cost of providing a new prefabricated bathhouse facility for the campsite facility. ELR and Miller Engineering ultimately provided detailed design and construction plans for the construction of the proposed improvements for 36 campsites.

CLIENT:

WV Division of Natural Resources

Mr. Brad Leslie, P.E.

Assistant Chief

West Virginia Division of Natural
Resources Parks and Recreation
Section

324 4th Avenue

South Charleston, WV 25303

COMPLETION DATE:

December 5, 2019

PROJECT COST:

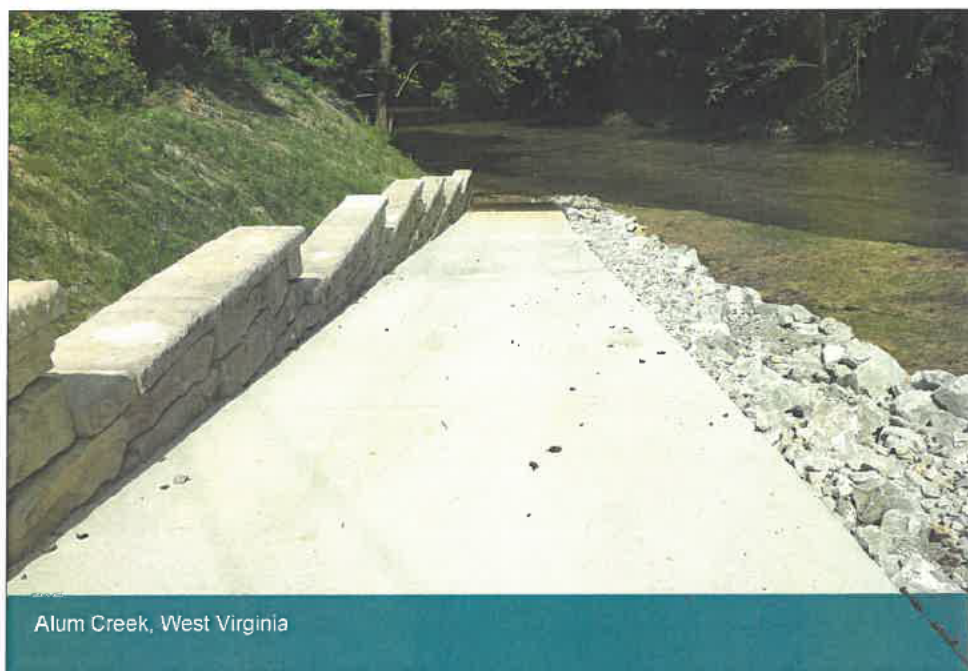
\$413,984 (Construction)

OUR ROLE:

Surveying and Base Mapping; Site
Inventory and Preliminary Design;
Construction Documents; Bidding;
Construction Administration and
Periodic Construction Observation



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



CLIENT:

West Virginia Division of
Natural Resources

Mr. Roger Wolfe,
Project Manager
WVDNR Wildlife Resource
Section
50 Rocky Branch Road
Alum Creek, WV 25003
Phone: 304.982.2008

COMPLETION DATE:

July 18, 2018

PROJECT COST:

\$275,000 (Construction)

OUR ROLE:

Surveying and Base Mapping;
Site Inventory and Concept
Design; Construction
Documents; Bidding;
Construction Administration

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.



Projects

Blackwater Falls State Park Sewage Treatment Plant Replacement



Davis, West Virginia

E.L. Robinson Engineering Co. was contracted by the West Virginia Division of Natural Resources, Parks & Recreation to design a new concrete sewage treatment plant which eliminates the potential for rust. The new plant also uses ultraviolet disinfection and provides a sand filter prior to discharge into the Blackwater Canyon.

The new plant was constructed adjacent to the existing plant. E.L. Robinson's design kept the existing plant in service during construction. A new building was also designed to match the building housing the existing plant.

CLIENT:

West Virginia Division of Natural Resources, Parks and Recreation

Brad S. Leslie, P.E.
Assistant Chief West Virginia
Division of Natural Resources
State Parks Section
324 4th Avenue
South Charleston, WV 25303
Phone: 304.558.2764 Ext. 51823
E-Mail: bradley.s.leslie@wv.gov

COMPLETION DATE:

2008

PROJECT COST:

\$600,000

OUR ROLE:

Design and Construction
Observation



Meadow River Boat Ramp



E.L. Robinson Engineering Co. was asked to provide design services to the West Virginia Division of Natural Resources, Wildlife Resources Section, to develop a new public access site and boat launch along the Meadow River near Rainelle, Greenbrier County, West Virginia. Our charge was to develop a new boat ramp and river access point that would have the least impact on the existing Meadow River Community Park in the community of Charmco, while utilizing as much of the existing driveways, parking and infrastructure available at the existing park. ELR's landscape architects developed two conceptual designs with budgetary cost estimates for two unique access points, for the WVDNR to brief the community and park leaders. A concept was selected, and ELR developed construction plans and bidding documents based on the selected concept, and assisted the WVDNR in bidding and construction administration for the project.

CLIENT:

West Virginia Division of
Natural Resources

Mr. Roger Wolfe,
Project Manager
WVDNR Wildlife Resource
Section
50 Rocky Branch Road
Alum Creek, WV 25003
Phone: 304.982.2008

COMPLETION DATE:

June 23, 2021

PROJECT COST:

\$92,500 (Construction)

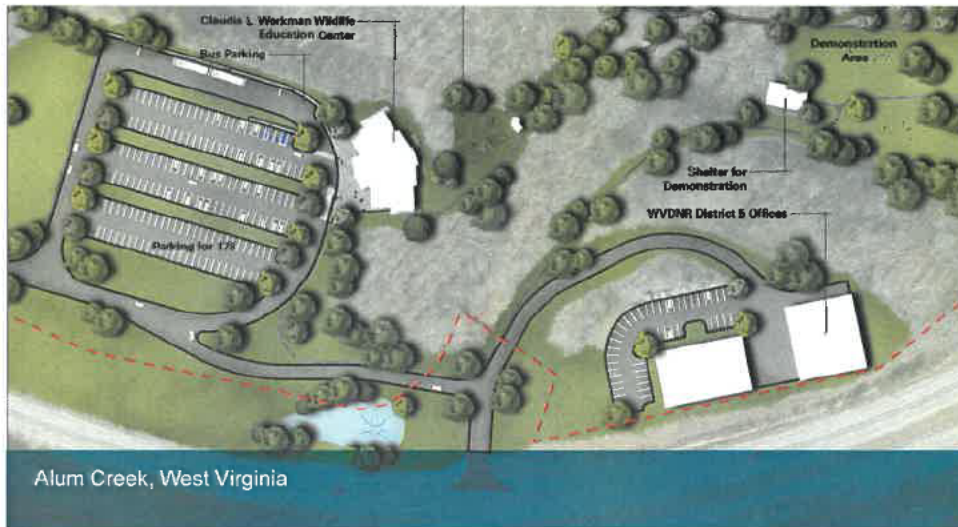
OUR ROLE:

Surveying and Base Mapping;
Site Inventory and Concept
Design; Construction
Documents; Bidding;
Construction Administration



Projects

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

**CLIENT:**

West Virginia Division of Natural Resources, Parks and Recreation

Brad S. Leslie, P.E.

Assistant Chief West Virginia
Division of Natural Resources
State Parks Section

324 4th Avenue

South Charleston, WV 25303

Phone: 304.558.2764 Ext. 51823

E-Mail: bradley.s.leslie@wv.gov

COMPLETION DATE:

In Construction

PROJECT COST:

\$6,750,000

OUR ROLE:

Design and Construction

Observation

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



Tygart Lake Wastewater Treatment Plant


CLIENT:

West Virginia Division of Natural Resources, Parks and Recreation

COMPLETION DATE:

1998

PROJECT COST:

\$118,000

OUR ROLE:

Design and Construction
 Observation

E.L. Robinson Engineering Co. was retained by the West Virginia Division of Natural Resources, Parks and Recreation, to provide planning, design and construction administration services for a new waste water treatment plant for Tygart Lake State Park near Grafton, West Virginia.

The existing treatment plant was replaced by an 8,000 gallon per day package plant, with new controls and electrical equipment. The new plant serves the lodge. A concrete retaining wall was also constructed due to poor soil conditions at the plant site.

Projects

Upper Mud River Recreation Area



Lincoln County, West Virginia

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 a boat launch, 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.



BC&G Railroad and Trail Project



Running along the Buffalo Creek, the Buffalo Creek & Gauley Railroad (BC&G) is an 18.6-mile-long former coal-hauling shortline that operated primarily from 1904 through 1965. Through a repurposing strategy called 'rail-with-trail,' the Clay County Business Development Authority (BDA) is now maintaining the BC&G as an excursion train and recreation trail. Rail-with-trail sees recreational trails built directly adjacent to active the railroad, still allowing draisine rail-biking and excursion trains to operate while the hiking and biking trail recreation occurs simultaneously. Tragically, the flash floods of 2016 caused the Buffalo Creek riverbank and much of the BC&G railroad and trail to incur severe damage from erosion, sediment deposition, washouts, and bridge displacements. As Clay and affected neighboring WV counties underwent numerous flood-mitigation initiatives to repair homes and infrastructure damaged by the flood, damage to the BC&G recreation area was assessed and inventoried using scans of the original 1904 railroad right-of-way centerline maps. This post-damage flood assessment helped indicate the damaged locations of trail and lay the foundation for designing needed repairs. ELR was selected to spearhead a team of geotechnical engineers, structural engineers, civil engineers and landscape architects to develop detailed design and FEMA-approved construction plans for the replacement and repairs of the bridges, railroad, culverts and trails from the community of Dundon to just past Swandale, for approximate 15 miles.

CLIENT:

Clay County Business
Development Authority

Mr. Mitch DeBoard, President
PO BOX 57
300 Center Street
Clay, WV 25043
Phone: 304.587.4166

COMPLETION DATE:

Summer 2022
(Currently under Construction)

PROJECT COST:

\$5,600,000

OUR ROLE:

Surveying and Base Mapping; Site
Inventory and Concept Design;
Construction Documents; Bidding;
Construction Administration and
Inspection



Projects

Stonewall Jackson Resort State Park Pedestrian Bridge

**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.



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.



Projects

Stonewall Resort State Park Lodge, Campgrounds

**CLIENT:**

McCabe - Henley Properties for
West Virginia State Parks

Mr. Rudy Henley
West Virginia Commercial LLC
305 Washington St. West
Charleston, WV 25302
Phone: 304.347.7500

COMPLETION DATE:

2003

PROJECT COST:

\$35 Million

OUR ROLE:

Master Planning, Site Construction
Design, Permit Coordination.

Stonewall Jackson Lake State Park represents a new beginning for state supported recreation development in West Virginia. The \$35 million resort planned by E.L. Robinson's landscape architects as part of the developer's team, was the first public/private partnership formed in the state for the development of facilities at a state park. The developer was responsible for coordinating all design and construction activity, while the state assisted in the financing package.

ELR landscape architects were responsible for master planning and site construction design for the 2,000 acre resort, including a 180-room lodge, an 18-hole signature golf course by Palmer Course Design Co., a 100-unit campground, cabins, day use improvements, a swimming pool, trails, access and parking. The firm was also responsible for permit coordination with the various state and federal agencies for wetlands, riparian corridors, utilities, stormwater and erosion controls. An extensive tree preservation and relocation program was planned and was coordinated by the firm.

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



Lake Erie Bluffs Pedestrian Bridge and Stairs



On Lake Erie, Perry, Ohio

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.

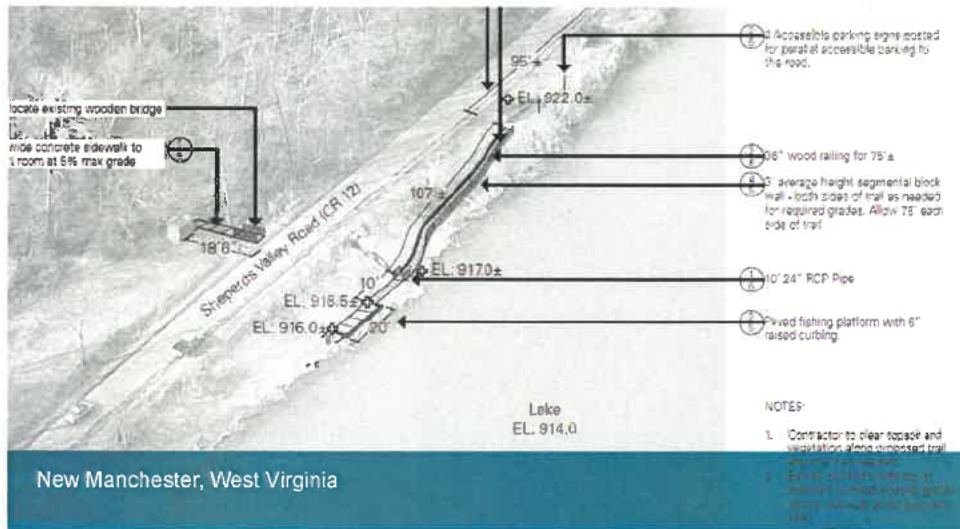
Pedestrian Bridge

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.



Projects

Tomlinson Run State Park Accessible Fishing Site



CLIENT:
West Virginia 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.



References

Business References



Mitchell DeBoard, President

Clay County Business Development Authority
PO Box 57
300 Center Street
Clay, WV 25043
304-587-4166

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

Kay Summers, Mayor

Town of Clendenin
PO Box 694
103 First Street
Clendenin, WV 25045
304-548-4192

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

Appendix:

CEOI Required Documents





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

State of West Virginia
Centralized Expression of Interest
Architect/Engr

Proc Folder: 920571

Doc Description: A/E Svcs-New Campground at Cass Scenic Railroad State Park

Reason for Modification:

Addendum #1 issued to publish agency responses to vendor questions.

Proc Type: Central Contract - Fixed Amt

Date Issued	Solicitation Closes	Solicitation No	Version
2021-09-17	2021-09-28 13:30	CEOI 0310 DNR2200000005	2

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code:

Vendor Name : [EL Robinson Engineering](#)

Address :

Street : [5088 Washington Street, West #101](#)

City : [Charleston](#)

State : [WV](#)

Country : [Kanawha](#)

Zip : [25313](#)

Principal Contact : [Kanawha](#)

Vendor Contact Phone: [304.776.7473](#)

Extension: [308](#)

FOR INFORMATION CONTACT THE BUYER

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

Vendor
Signature X

FEIN# [55-0594633](#)

DATE [September 21, 2021](#)

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)

R. Todd Schoolcraft, PLA, Project Manager

(Printed Name and Title)

5088 Washington Street, West, Charleston, WV 25313

(Address)

304.776.7473 / 304.776.6426

(Phone Number) / (Fax Number)

tschoolcraft@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.

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

E.L. Robinson Engineering Co.

(Company)



(Authorized Signature) (Representative Name, Title)

R. Todd Schoolcraft, PLA, Project Manager

(Printed Name and Title of Authorized Representative)

28 September 2021

(Date)

304.776.7473 / 304.776.6426

(Phone Number) (Fax Number)

Revised 07/01/2021



West Virginia Ethics Commission
Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: E.L. Robinson Eng. Address: 5088 Washington Street, West
Charleston, WV 25313

Name of Authorized Agent: Joseph E. Hager III Address: 2019 Washington St E, Charleston, WV 25305

Contract Number: CEOI 0310 DNR2200000005 Contract Description: A/E Services for Cass SP Campground

Governmental agency awarding contract: WVDNR Parks and Recreation

☐ Check here if this is a Supplemental Disclosure

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

1. Subcontractors or other entities performing work or service under the Contract

☐ Check here if none, otherwise list entity/individual names below.

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

☐ Check here if none, otherwise list entity/individual names below.

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

☐ Check here if none, otherwise list entity/individual names below.

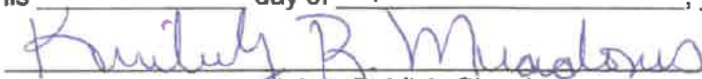
Signature:  Date Signed: 21 September 2021

Notary Verification

State of West Virginia, County of Kanawha:

I, R. Todd Schoolcraft, 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 21st day of September, 21.


Notary Public's Signature

To be completed by State Agency:

Date Received by State Agency: _____

Date submitted to Ethics Commission: _____

Governmental agency submitting Disclosure: _____

Revised June 8, 2018

STATE OF WEST VIRGINIA
Purchasing Division
PURCHASING AFFIDAVIT

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

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

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

DEFINITIONS:

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

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

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

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

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: E.L. Robinson Engineering Co.

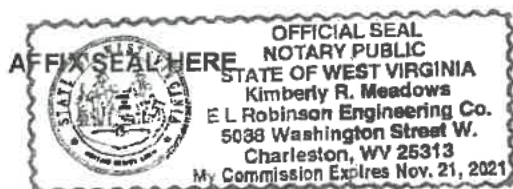
Authorized Signature: *L. Todd Schofield* Date: 21 September 2021

State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 21 day of September, 2021.

My Commission expires November 21, 2021.



NOTARY PUBLIC

Kimberly R. Meadows

Purchasing Affidavit (Revised 01/19/2018)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI DEP22*05

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)

- ☒ Addendum No. 1
- ☐ Addendum No. 2
- ☐ Addendum No. 3
- ☐ Addendum No. 4
- ☐ Addendum No. 5

- ☐ Addendum No. 6
- ☐ Addendum No. 7
- ☐ Addendum No. 8
- ☐ Addendum No. 9
- ☐ 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.

E.L. Robinson Engineering Co.

Company



Authorized Signature

28 September 2021

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

Revised 07/01/2021



E.L. ROBINSON
ENGINEERING