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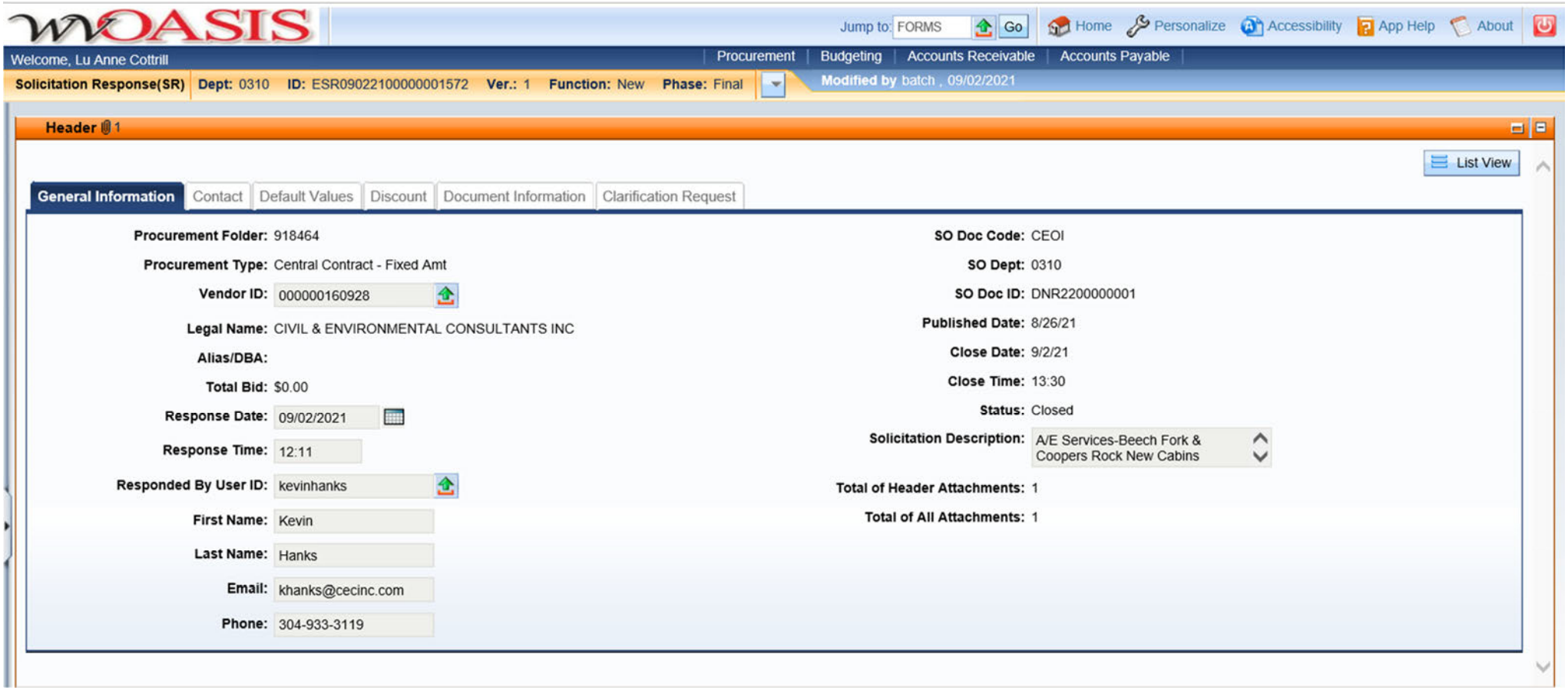
wvOASIS
Jump to: FORMS Go
Home
Personalize
Accessibility
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About
Welcome, Lu Anne Cottrill
Procurement
Budgeting
Accounts Receivable
Accounts Payable
Solicitation Response(SR) Dept: 0310 ID: ESR09022100000001572 Ver.: 1 Function: New Phase: Final
Modified by batch , 09/02/2021
Header 1
List View
General Information
Contact
Default Values
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Document Information
Clarification Request
Procurement Folder: 918464
Procurement Type: Central Contract - Fixed Amt
Vendor ID: 000000160928
Legal Name: CIVIL & ENVIRONMENTAL CONSULTANTS INC
Alias/DBA:
Total Bid: $0.00
Response Date: 09/02/2021
Response Time: 12:11
Responded By User ID: kevinhanks
First Name: Kevin
Last Name: Hanks
Email: khanks@cecinc.com
Phone: 304-933-3119
SO Doc Code: CEOI
SO Dept: 0310
SO Doc ID: DNR2200000001
Published Date: 8/26/21
Close Date: 9/2/21
Close Time: 13:30
Status: Closed
Solicitation Description: A/E Services-Beech Fork & Coopers Rock New Cabins
Total of Header Attachments: 1
Total of All Attachments: 1

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

# State of West Virginia
# Solicitation Response

| | |
|---|---|
| **Proc Folder:** | 918464 |
| **Solicitation Description:** | A/E Services-Beech Fork & Coopers Rock New Cabins |
| **Proc Type:** | Central Contract - Fixed Amt |

| Solicitation Closes | Solicitation Response | Version |
|---|---|---|
| 2021-09-02 13:30 | SR 0310 ESR09022100000001572 | 1 |

**VENDOR**

000000160928
CIVIL & ENVIRONMENTAL CONSULTANTS INC

**Solicitation Number:** CEOI 0310 DNR2200000001

**Total Bid:** 0 **Response Date:** 2021-09-02 **Response Time:** 12:11:39

**Comments:**

**FOR INFORMATION CONTACT THE BUYER**
Joseph E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

**Vendor Signature X** **FEIN#** **DATE**

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

| Line | Comm Ln Desc | Qty | Unit Issue | Unit Price | Ln Total Or Contract Amount |
|---|---|---|---|---|---|
| 1 | Civil engineering | | | | 0.00 |

| Comm Code | Manufacturer | Specification | Model # |
|---|---|---|---|
| 81101500 | | | |

**Commodity Line Comments:**

**Extended Description:**

Architectural/engineering services and contract administration for new cabins at Beech Fork State Park and Coopers Rock State Forest.

Civil & Environmental Consultants, Inc.

WEST VIRGINIA DIVISION OF NATURAL RESOURCES

# A/E SERVICES-BEECH FORK & COOPERS ROCK NEW CABINS CEOI 0310 DNR2200000001

CEC | BRIDGEPORT
Project 314-375
September 2, 2021

September 2, 2021

Joseph E Hager III
(304) 558-2306
WV DNR – PEM Section
324 4th Ave.
South Charleston, WV 25303
joseph.e.hageriii@wv.gov

Subject: A/E Services-Beech Fork & Coopers Rock New Cabins
CEOI 0310 DNR2200000001
CEC Project 314-375

Please find enclosed a Statement of Qualification (SOQ) for Civil & Environmental Consultants, Inc. (CEC) to provide a full service design and consulting team. Our team provides Site/Civil, Environmental, Geotechnical, Structural, Water/Wastewater engineering services along with teaming partners ZMM Architects & Engineers and Watkins Design Works for services on the cabin structures.

CEC is a 1200+ member professional engineering firm, which opened an office in Bridgeport, West Virginia in September 2012 to better serve our West Virginia clients. Our Bridgeport office staff is now at 104 employees and growing. This staff has been selectively assembled with extensive experience with all aspects of destination resorts from conceptual planning through construction. CEC's has collaborated with teaming partners in ZMM Architects & Engineers and Watkins Design Works on previous projects creating a dynamic West Virginia team. Our combined extensive experience in development of destinations allows us to provide the most cost effective solutions for our West Virginia clients.

CEC wishes to provide the West Virginia Division of Natural Resources with this same high level of service, to make your projects as successful as those for our previous clients.

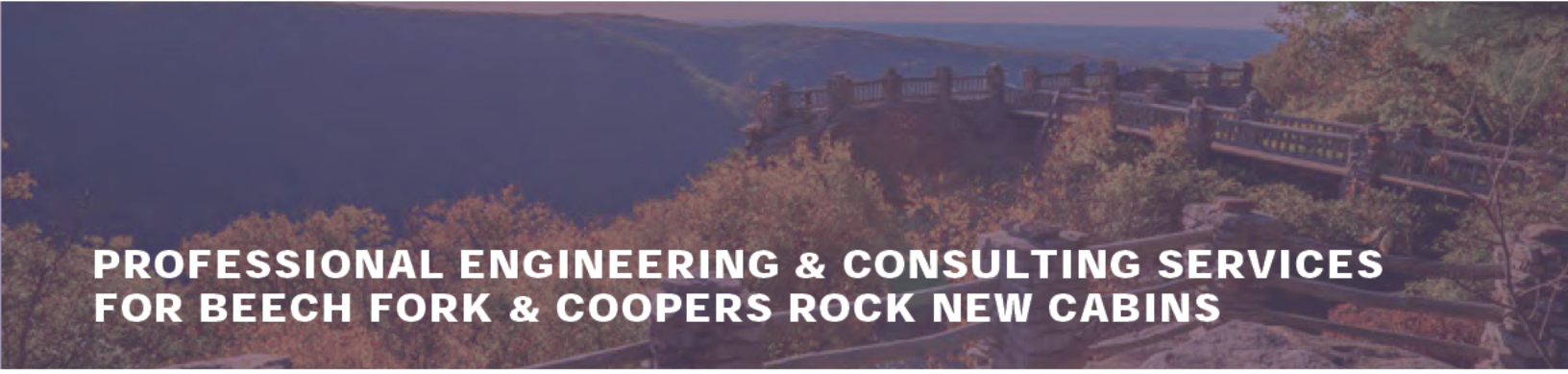
As a proud West Virginian and an outdoor enthusiast, I am excited to work with and advance the mission of the West Virginia Division of Natural Resources.

We thank you for your consideration,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Jim Christie, PLA
Principal

Matthew Fluharty, PE
Principal



# PROFESSIONAL ENGINEERING & CONSULTING SERVICES FOR BEECH FORK & COOPERS ROCK NEW CABINS

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## APPENDICES

# 1.0 Firm Overview

In 1989, four engineers and scientists came together with a singular vision: to be a people-first company, one that promotes a culture where clients and employees enjoy working together, and that is responsive to client needs with integrated services and high-quality work for projects both complex and routine.

More than 30 years later, Civil & Environmental Consultants, Inc. (CEC) has 1,000+ team members in offices nationwide. Headquartered in Pittsburgh, Pennsylvania, we are consistently ranked on Engineering News-Record's annual lists of the Top Design Firms and Top Environmental Firms in the nation.

**A culture of accountability. We own it.** At CEC, every member of our team has a personal stake in ensuring the success of our clients. Because their success is our success. As employee-owners of the firm, we are all personally accountable for building lasting relationships and delivering outstanding results. Because we don't just work at CEC. We own it.

**Being easy to work with. We own it.** At other firms, you may find one person you work well with. Here, our clients tell us they work well with all of us. It's because all of us are invested in your success. We're accessible, responsive, and operate with integrity.

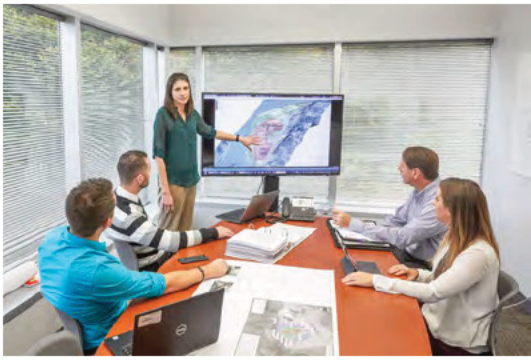
**Putting people first. We own it.** At CEC, people come first. Always. Whether that's our clients, our employees, or our community. It's why we listen more and work harder to understand the unique needs of our clients. And it's why we prioritize the career development of every individual on our team. People are why we do this, and why we love what we do.

**Teamwork. We own it.** We are at our best when we work together. That means bringing together a diverse team of talented, passionate, multidisciplinary experts to work closely alongside clients to craft comprehensive solutions to complex problems. We believe that by working together, no problem is insurmountable.

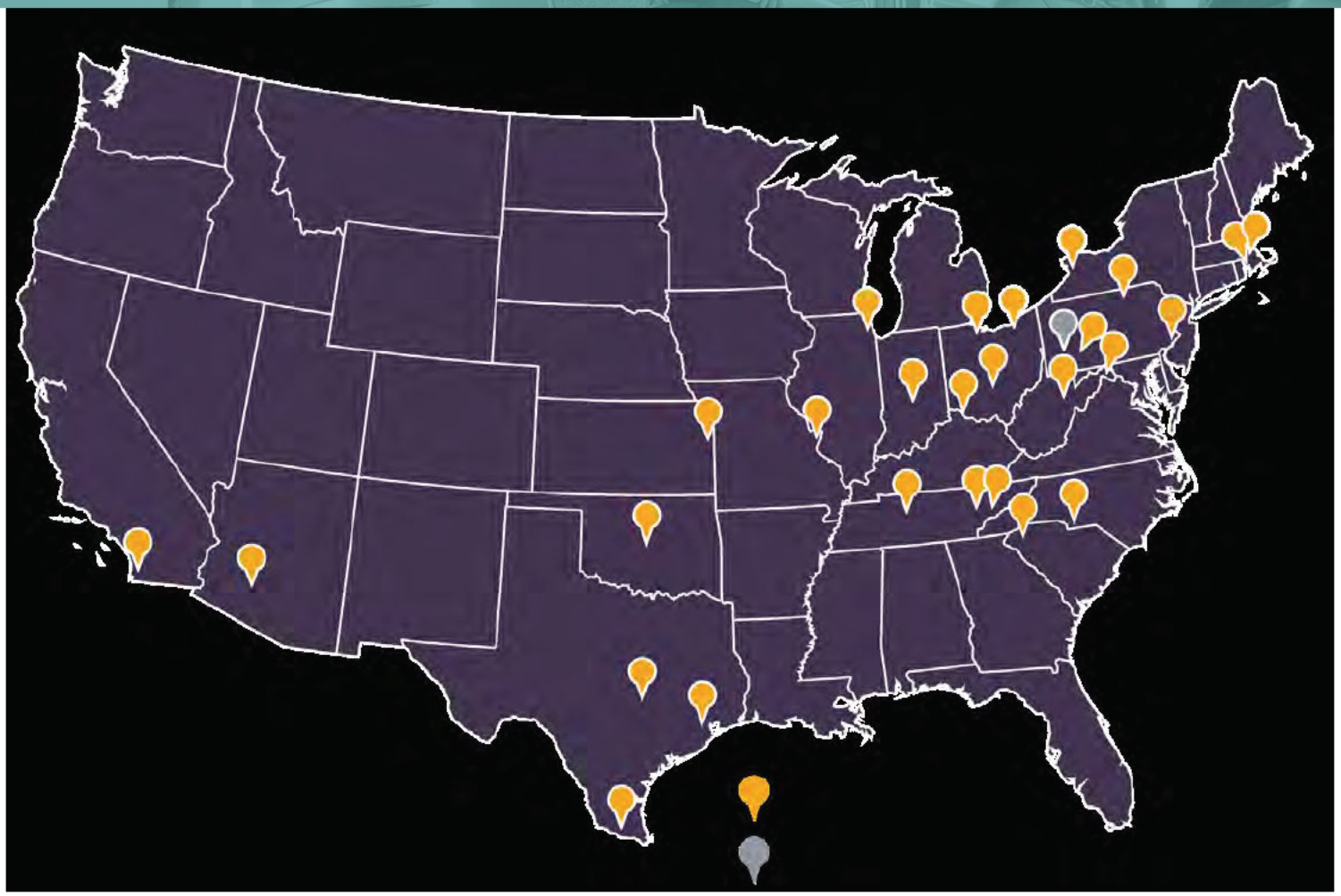
**Safety excellence. We own it.** We believe all accidents are preventable and are committed to creating an accident- and incident-free workplace for employees and subcontractors through training, safe workplace practices, and processes for assessing project hazards. CEC strives for safety excellence throughout our entire organization and holds all individuals accountable for the safe performance of their work.

CEC is an expanding, multi-disciplined company that is home to:

- Civil Engineers
- Geotechnical Engineers
- Transportation Engineers
- Structural Engineers
- Environmental Scientists
- Environmental Engineers
- Chemical Engineers
- Geologists
- Hydrogeologists
- Hydrologists
- Ecologists
- Biologists
- Wetland Scientists
- Threatened & Endangered Species Experts
- Agronomists/Soil Scientists
- Emissions Testing Professionals
- Meteorologists
- Chemists
- Archaeologists
- Construction Managers and Inspectors
- Environmental Technicians
- Treatment Plant Operators
- Land Surveyors
- Landscape Architects
- GIS Analysts and Programmers



# WHERE WE ARE.



**Athens, PA**
877.389.1852

**Austin, TX**
512.439.0400

**Boston, MA**
866.312.2024

**Bridgeport, WV**
855.488.9539

**Buffalo, NY**
888.364.2324

**Charlotte, NC**
855.859.9932

**Chicago, IL**
877.963.6026

**Cincinnati, OH**
800.759.5614

**Cleveland, OH**
800.365.2324

**Columbus, OH**
888.598.6808

**Fall River, MA**
508.679.5646

**Greenville, SC**
855.574.4331

**Houston, TX**
800.365.2324

**Indianapolis, IN**
877.746.0749

**Kansas City, KS**
866.250.3679

**Knoxville, TN**
865.977.9997

**Martinsburg, WV**
800.365.2324

**McAllen, TX**
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**Monroeville, PA**
800.899.3610

**Nashville, TN**
800.763.2326

**Oklahoma City, OK**
405.246.9411

**Philadelphia, PA**
888.267.7891

**Phoenix, AZ**
877.231.2324

**Pittsburgh, PA**
800.365.2324

**San Diego, CA**
760.977.8106

**Sevierville, TN**
865.774.7771

**St. Louis, MO**
866.250.3679

**Toledo, OH**
855.274.2324

# ABOUT
# ZMM ARCHITECTS & ENGINEERS

**ZMM was founded in 1959 in Charleston, West Virginia by Ray Zando, Ken Martin, and Monty Milstead. Since the inception of the firm, ZMM has been dedicated to providing an integrated approach to building design for our clients.**

ZMM delivers this integrated approach by providing all building related design services, including architecture, engineering (civil, structural, mechanical, and electrical), interior design, and construction administration with our in-house team. Our integrated design approach makes ZMM unique among architecture/engineering firms, and helps to ensure the quality of our design solutions by providing more thoroughly coordinated construction documents.

ZMM has maintained a diverse portfolio since the founding of the firm. Early commissions included higher education projects for West Virginia University and Concord College, State Office Buildings 5, 6, & 7 on the State of West Virginia Capitol Campus, and armories for the West Virginia Army National Guard.

Maintaining a diverse practice for over 60 years has provided ZMM with extensive experience in a variety of building types, including educational facilities, governmental facilities (military, justice, correctional), healthcare facilities, recreation facilities, commercial office space, light industrial facilities, and multi-unit residential buildings.

The original partners transferred ownership of the firm to Robert Doeffinger, PE and Steve Branner in 1986. Mr. Doeffinger and Mr. Branner helped guide and expand the firm to its present size of 35 people. Over the past 20 years David Ferguson, AIA, and Adam Krason, AIA, LEED-AP joined in ownership of the firm. In 2020, Randy Jones also joined in ownership of the firm when ZMM acquired Blacksburg-based OWPR Architects & Engineers to create a regional design firm that employs more than 50 highly-skilled professionals.

ZMM has become a leader in sustainable / energy-efficient design, and a trusted resource on complex renovation projects. ZMM's unique renovation project approach and ability to

# Firm Profile

## ABOUT

Watkins Design Works is a commercial interior design and green building consulting firm. We offer all facets of interior design services for corporate, government, hospitality, higher education, healthcare, retail, military, design-build, and architectural clients. Jill Watkins, Owner, has nearly 30 years of experience designing a wide variety of commercial interiors and working with architects, engineers, contractors, and other consultants. Her project experience ranges from 123,000 square feet of corporate headquarters to 1,000 square foot tenant renovations...from an $85 million dollar project for a national guard base to kitchen and bath renovations at a low-income multi-family housing facility. From programming through construction administration, from conceptual color palettes to custom millwork detailing, Watkins Design Works will be involved with you throughout the entire process, to design functional and beautiful interiors that support your staff, your needs, and your vision.

We also provide overall guidance, eco-charrette facilitation and in-depth knowledge of the LEED Green Building Rating System for clients interested specifically in green building. By embracing an integrative design process, where designers, architects, engineers, contractors, and all stakeholders are involved in a design project early and often, we are able to connect the built environment with the natural environment, so that quality of life is improved for end users and local habitat is regenerated. Economic savings are realized through this early decision-making process, rather than diminishing value through traditional "value engineering" at the end of the design process. Thus, the triple bottom line of sustainability is inherent in everything we do: environment-equity-economy, each considered in equal parts.

## SERVICES

Programming, project planning, and pre-design
Schematic design, space planning, and design development
Contract and bid documents
Interior construction administration
Lighting design
Custom casework and millwork design
Furniture design
LEED Green Building Rating System and WELL Building consulting

## CERTIFICATIONS

Small Business Administration:
- Woman-Owned Small Business
- Economically Disadvantaged Woman-Owned Small Business

State of West Virginia:
- Small Business and Woman-Owned Business
- WV Oasis Registered Vendor

## MEMBERSHIPS

American Institute of Architects WV Chapter.....Professional Affiliate Member
U.S. Green Building Council.....National Organizational Member

Watkins Design Works, LLC
815 Quarrier Street, Suite 202
Charleston, WV 25301
304.553.7002 office
www.watkinsdesignworks.com

# 2.0 Goals and Objectives

## 2.1. Goal/Objective 1: Review existing plans and conditions as well as the operation of the facility and evaluate while communicating effectively with the owner to determine a plan that can be implemented in a manner that will minimize disruption to concurrent operation of the facility and meet all objectives.

CEC has reviewed the scope of work outlined in the EOI. In order to meet the owner's needs, CEC will develop a schedule based on the information provided by the owner. A kickoff meeting will be necessary to ensure all parties follow the schedule and address any issues that may arise. CEC will work with all stakeholders and agencies throughout the project. From there, communication throughout the project is paramount for success. Communication will be between the Project Manager, Jim Christie and the owner. Jim will delegate any assign tasks to his project team.

## 2.2. Goal/Objective 2: As a portion of this process outlined in Objective 1, provide all necessary services to design the facilities described in this EOI in a manner that is consistent with The Division of Natural Resources needs, objectives, current law, and current code; while following the plan to design and execute the project within the project budget.

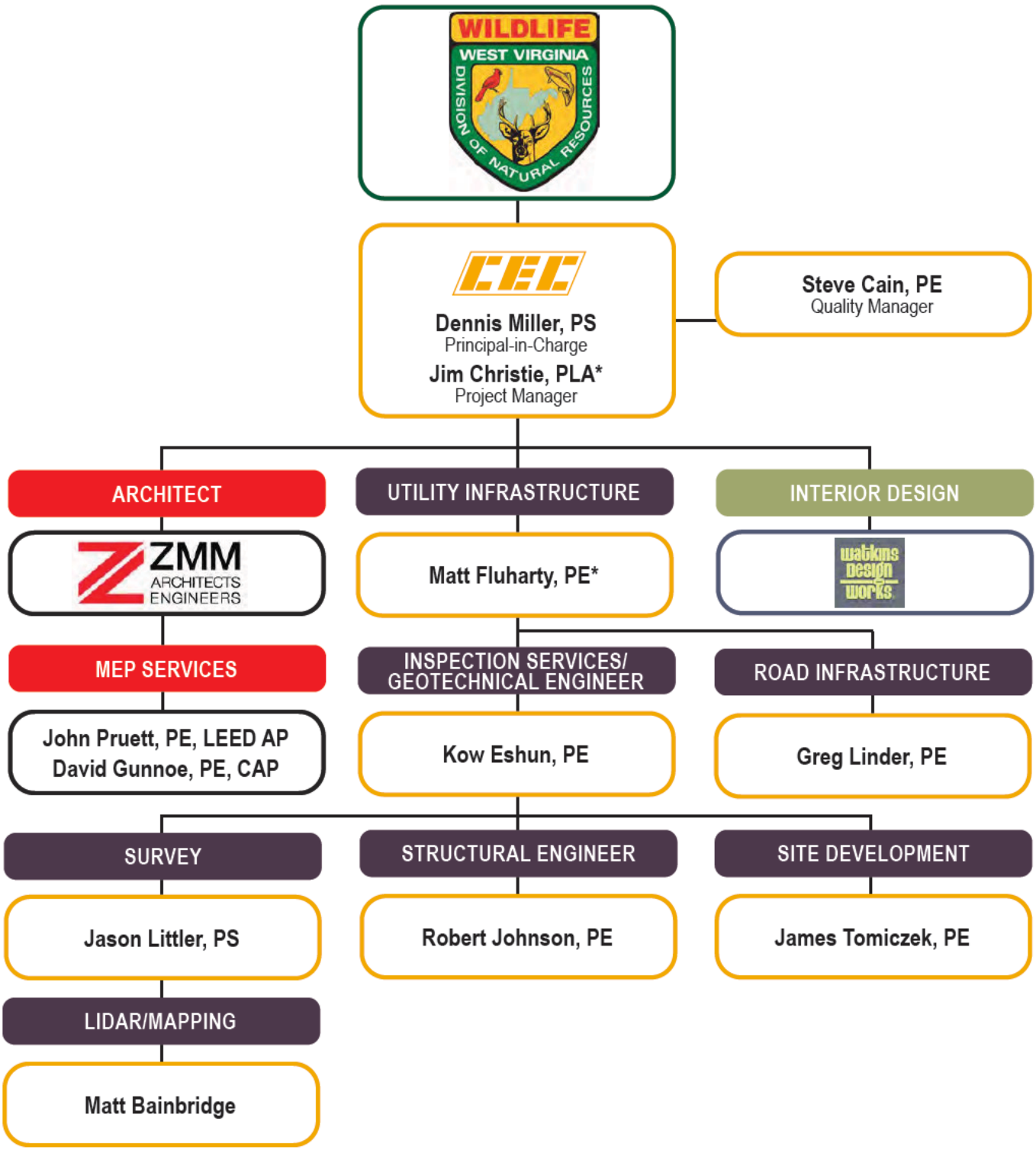

CEC's understanding of the project includes providing necessary engineering, and other related professional services to design, specify and provide construction contract administration services for the construction of approximately 25 cabins in Beech Fork State Park and 20 cabins as well as 25 campsites in Coppers Rock State Park.

## 2.3. Goal/Objective 3: Provide Construction Contract Administration Services with competent professionals that ensures the project is constructed and functions as designed.

The CEC Team's experience with the design of public facilities provides us with a team that efficiently coordinates projects such as this from concept to permitting and through construction. CEC's team will create an initial list of goals and objectives with the WVDNR and create a roadmap for the project understanding the needs of the WVDNR to get the project completed. Once an agreed upon scope and schedule have been established, CEC's team will work efficiently to take the project from design through installation all along keeping the WVDNR informed on the progress of schedule, budget, permits and construction.

# 3.0 Project Team

Full resumes can be found in Appendix A.



## Jim Christie, PLA

*Years of Experience: 23*
*Education: B.S., Landscape Architecture, West Virginia University, 1998*
*Registrations: Registered Landscape Architect (CO[redacted]. WV[redacted], MD[redacted])*

Mr. Christie is a Principal in the Civil department. In his capacity, he is responsible for complete project management within CEC. He is responsible for site design, landscape architecture, site development entitlement services, construction documents, client management, personnel supervision, and construction administration on numerous municipal, commercial, and institutional projects. His wide range of project experience ranges from landscape design to destination resort design in multiple regions both within the United States and internationally. Jim has dedicated his career to projects that have a direct effect on the local economy and job growth.

## Dennis Miller, PS

*Years of Experience: 32*
*Education: A.S., Surveying, Glenville State College, 1989*
*Registrations: Professional Surveyor (WV[redacted], SC[redacted])*

Mr. Miller has over 32 years of consulting experience and serves as the Office Lead/ Vice President of the Bridgeport, WV office. He is responsible for overseeing daily operations, promoting a safe working environment, staff development and office development, project management and client development. Mr. Miller is responsible for professional development and staff mentoring. He is in constant communication with clients, project managers and key technical staff, providing the guidance necessary to ensure that every project is completed with professionalism and efficiency. Mr. Miller has worked on both private and public sectors and has noteworthy experience in the policies and procedures within WVDEP, WVDOT, FHWA, FAA.

## Steve Cain, PE

*Years of Experience: 28*
*Education: B.S., Engineer Technology - (Civil Emphasis), Fairmont State University, 1992*
*Registrations: Professional Engineer (WV[redacted], MD[redacted])*

Mr. Cain, a professional engineer with CEC, has 28 years of experience in civil engineering design and project management. His experience in civil engineering design encompasses many aspects of civil engineering design including land surveying, mapping, site development, sanitary sewer system design, storm sewer system design, potable water distribution system design and hydraulic modeling. Additionally, Steve also has experience in water treatment system design and rehabilitation as well as wastewater treatment design.

## James Tomiczek, PE

*Years of Experience: 30*
*Education: M.S., Engineering Management, University of Tennessee, 1999*
*B.S., Civil Engineering, Virginia Polytechnic Institute & State University, 1991*
*Registrations: Professional Engineer (TN[redacted])*

Mr. Tomiczek serves as principal advisor on projects to ensure high-quality service. Prior to his current role, he worked as the project/client manager for several large developments and was responsible for the design of projects ranging in size from one unit to more than two thousand units. Mr. Tomiczek has more than 30 years of civil engineering experience with the majority being dedicated to site development projects. His career is highlighted by several large and complex resort and amusement property developments.

## Matt Fluharty, PE

*Years of Experience: 21*
*Education: B.S., Civil Engineering, West Virginia University, 2000*
*Registrations: Professional Engineer (WV[redacted], PA[redacted], MD[redacted], OH[redacted])*

Mr. Fluharty has 21 years of experience in the engineering and consulting industry servicing private commercial and industrial, and government sectors. His project practice focus includes design and engineering of fluid hydraulics, hydraulic modeling and treatment systems, Mr. Fluharty's engineering experience includes: detailed engineering including water pipelines and pumping stations, water storage tanks, plant layouts, equipment sizing and selection, hydraulics analysis; plans and specifications for bidding and construction; engineering cost estimating including project control-level budgeting and life-cycle costs; bidding and procurement; project planning and permitting.

## Robert Johnson, PE

*Years of Experience: 33*
*Education: B.S., Civil Engineering, Tennessee Technological University, 1988*
*Registrations: Professional Engineer (TN[redacted], AL[redacted], TX[redacted], OH[redacted], PA[redacted], SC[redacted], NC[redacted], VA[redacted], IN[redacted], MI[redacted], GA PE[redacted], WV[redacted], KY[redacted], AZ[redacted], RI[redacted])*

Robert Johnson, PE has more than 33 years of civil and structural engineering experience. His experience encompasses site development for residential, commercial, and industrial projects; structural design of retaining structures, pre-engineered structure foundations (e.g., buildings and bridges), and utility structures; structural assessments and repair/remodeling; and building design. At CEC, Mr. Johnson coordinates structural engineering projects with all CEC offices and provides project management and oversight for these projects.

## Greg Linder, PE

*Years of Experience: 23*
*Education: B.S., Biology, Fairmont State College, 1993*
*B.S., Civil Engineering, West Virginia University, 1998*
*Registrations: Professional Engineer (WV[redacted])*

Mr. Linder has been involved with the engineering design and/or inspection of numerous bridges, including highway, railway, and pedestrian bridges. He has designed bridge structures for large, governmental clients, as well as smaller governmental units and private sector organizations. Several of these projects have been "high profile" projects, allowing Mr. Linder the experience of working under intense public scrutiny. In addition to bridge design, Mr. Linder has been involved with roadway design, floodplain evaluation projects, streambank protection projects, site development projects, and environmental projects.

## Kow Eshun, PE

*Years of Experience: 16*
*Education: B.S., Civil Engineering, Kwame Nkrumah University of Science and Technology, 2005*
*M.S., Geotechnical Engineering, The University of Akron, 2013*
*Registrations: Professional Engineer (TX [redacted], KY [redacted] MD [redacted], WV [redacted], PA [redacted], VA [redacted], OH [redacted])*

Mr. Eshun has several years of diverse experience in Geotechnical engineering, Logistics, Transportation and Construction Quality Assurance. Mr. Eshun has provided recommendations for shallow foundations, intermediate foundations, deep foundations, retaining structures, slope stability analyses, ground improvement techniques, mine subsidence, and earthwork for both greenfield and brownfield projects. Additionally, Mr. Eshun has managed a wide range of projects in the transportation, health, telecom and utilities industries including roadway projects, and building projects.

## Jason Littler, PS

*Years of Experience: 25*
*Education: A.S., Civil Engineering Technology, West Virginia Institute of Technology, 1995*
*B.S., Engineering Technology - (Survey Emphasis), West Virginia Institute of Technology, 1996*
*Registrations: Professional Surveyor (WV [redacted])*

Mr. Littler has over 25 years of experience with proven leadership skills, including managing, supervising, and motivating staff to achieve company objectives. He has performed roadway design, site civil design, drainage computations, construction layout, earthwork volumes, topographical surveys, aerial mapping control surveys, boundary surveys, WVDOH right of way plan development, courthouse research, deed work maps, survey plats, survey descriptions, earthwork volume computations, hydrology computations, WVDOH waste permits, plan preparation, subdivision plats, cell tower surveys, oil and gas landowner exhibits, pipeline as-builts, pipeline alignment sheets, pipeline routing, fine grade computations, and survey field crew management and oversight.

## Matt Bainbridge, EIT

*Years of Experience: 17*
*Education: B.S., Mathematics, Fairmont State University, 2007*
*B.S., Civil Engineering Technology, Fairmont State University, 2012*
*Registrations: Engineer in Training (WV [redacted])*
*Surveyor Intern (WV [redacted])*

Mr. Bainbridge possesses a diverse background in both Civil Engineering and Geomatics. With experience ranging from site design to advanced geospatial data processing, Mr. Bainbridge's capabilities enable him to provide a wide variety of services throughout the AEC industry. Geomatics expertise from acquisition through Topographic and/or BIM deliverables using Mobile Laser Scanning (MLS), Terrestrial Laser Scanning (TLS), and sUAS LiDAR and Photogrammetry.

## Adam R. Krason, AIA, LEED AP, ALEP

*Years of Experience: 23*
*Education: Bachelor of Architecture., The Catholic University of America, 1998*
*B.S., Civil Engineering, The Catholic University of America, 1997*
*Registrations: Registered Architect (WV, OH, KY, VA, MD, NJ)*

Mr. Krason has served in the capacity of Architect and Project Manager for a variety of projects at ZMM. This experience includes Military, Educational (K-12 and Higher Education), Office, Justice (Courthouses, Correctional, Justice Centers), and Multi-Unit Residential projects. Mr. Krason's responsibilities include programming, design, documentation, coordination of the architectural and engineering team, as well as construction administration. Mr. Krason serves on the Board of Directors and is responsible for business development at ZMM.

## John Pruett, PE, LEED AP

*Years of Experience: 22*
*Education: Bachelor of Science, Purdue University, West Lafayette, IN, 1993*
*Registrations: Professional Engineer (WV, VA, IN)*
*LEED Accredited Professional*

Mr. Pruett is responsible for overseeing the design of the HVAC systems, ensuring that the HVAC systems not only meet the program requirements, but meet the long-term needs of the owner. He performs heating and cooling load calculations and recommends the type of systems to be incorporated into the building. He coordinates with the other disciplines in order to integrate the HVAC systems into the building. Mr. Pruett has participated on several LEED registered projects; one of his key contributions to these projects is conducting energy analyses and recommending energy use reduction alternatives.

## David Gunnoe, PE, CAP

*Years of Experience: 12*
*Education: B.S., Electrical Engineering, West Virginia University Institute of Technology, 2009*
*Registrations: Professional Engineer (WV, MI, VA, TX, MN)*

Mr. Gunnoe has over 12 years of experience in power generation, material handling, and petrochemical process control. His technical expertise is in industrial electrical design with particular focus on industrial controls, automation, and instrumentation. He has been involved in every aspect of project completion from pre-planning, frontend design, detailed design, bidding, construction, and inspection all the way to final programming, system tuning, troubleshooting, commissioning, and long-term support.

## Rodney Pauley, AIA

*Years of Experience: 18*
*Education: Bachelor of Architecture, University of Tennessee, 1992*
*A.S., West Virginia Institute of Technology, 1986*
*Registrations: Registered Architect (WV)*

Mr. Pauley is responsible for overseeing the daily design and production of the building, working in conjunction with in-house architectural, interiors and engineering staff to ensure the building not only meets the program requirements and budget, but meet the long-term needs of the owner. He also works directly with project principals to manage contracts, staffing and project deliverables. Mr. Pauley has a broad knowledge of building materials and services, building codes, and construction techniques, along with extensive experience in architectural detailing.

## Nathan Spencer, AIA

*Years of Experience: 18*
*Education: Bachelor of Architecture, University of Tennessee, 2007*
*Registrations: Registered Architect (WV)*

Mr. Spencer is responsible for coordinating the efforts of the design team in preparing thorough and clear design documents. He has experience in all phases of design working on a wide range of building types including; military, educational, office, justice, and residential.

He has worked on several projects that are currently pursuing LEED certification. In addition to production, Mr. Spencer, is also experienced in 3d modeling. He has worked on several preliminary concept study models as well as high quality renderings and 3d models later in the design process. Mr. Spencer is also experienced in high quality physical models.

## Jill Watkins NCIDQ, WELL AP, LEED AP BD+C

*Years of Experience: 30*
*Education: B.S., Interior Design, University of Tennessee, 1993*

Jill Watkins, Owner of Watkins Design Works, is an NCIDQ-Certified interior designer with nearly 30 years of experience in commercial interior design, and over 20 years devoted to sustainable design. She earned a Bachelor of Science in Interior Design from The University of Tennessee, Knoxville, then lived in Cleveland, Ohio and Boston, Massachusetts for 13 years before moving back home to Charleston, West Virginia in 2008. During that time, she worked for several interior design, architecture and engineering firms on a variety of commercial interiors projects and nurtured a passion for sustainable design after attending a presentation by architect and futurist John Picard in 1997. Jill is a Certified Interior Designer in Maryland, Virginia, and Washington, D.C. She is former chair of USGBC West Virginia, involved with Citizens Climate Lobby West Virginia, and a Professional Affiliate Member of AIA West Virginia.

# 4.0 Project Understanding

## 4.1 The successful firm or team should demonstrate a clear procedure for communication with the owner during all phases of the project.

### 4.1.1 Task 1: Project Kick-Off Meeting

Civil & Environmental Consultants, Inc.'s (CEC) Jim Christie will be the Project Manager and point of contact for the WVDNR. Jim's experience will provide valuable guidance from preliminary planning, to construction. Jim will utilize the strategic team of professional engineers, surveyors, architects, scientist and supporting staff as indicated in the organization chart to achieve the goals of this project and ensuring that the WVDNR needs are met. CEC will maintain regular communication with the WVDNR through a kick-off meeting to review scope, goals, and the schedule of the project(s), with the various departments. The specific scope of work tasks will be led and managed by licensed professionals in the state of West Virginia.

### 4.1.2 Task 2: Data Acquisition, & Survey

CEC will visit the site to obtain data critical to gaining a full understanding of the existing conditions of the site. CEC will collect the necessary data to enhance the site assessment. Additionally, CEC will provide the WVDNR with a checklist of data that will need assembled that will be utilized in the preliminary design to establish the scope of work and opinion of probable cost. Data collection would include survey of the immediate area of interest. Performing this survey will allow the team to develop a basis of existing conditions to be used in the following tasks. CEC is open to utilizing exiting firms that have already significant background and knowledge of the exiting utilities to ensure efficiency and reduction of overall project cost.

### 4.1.3 Task 3: Preliminary Engineering

Once the site survey and assessments are complete, CEC will work with the WVDNR to develop a preliminary engineering design for Beech Fork and Coopers Rock that will allow our team to provide the WVDNR with an understanding of the remedial items that will need to take place. Having a preliminary engineering complete will assist the team in creating a clearer picture of the work that will need to go into the project and the estimated cost to complete.

### 4.1.4 Task 4: Final Design, Permitting, and Construction

When project funding is secured, CEC will work with the WVDNR to finalize the design process for the project, prepare and submit permits, complete bid packages, and assist in the bidding of the project. Once bids have been received CEC will provide a recommendation of award and provide construction inspection services to ensure the project is built in accordance with the plans and detailed specifications.

### 4.1.5 Task 5: Bid Specifications, and Bid Documents

Bid specifications will be prepared using the MasterSpec format and will be referenced to WVDOH standard specifications, and any other county/city standard specifications, if applicable. Site work specifications will be presented in a PDF format.

### 4.1.6 Task 6: Cost Estimates and Bidding

CEC has a successful background in preparing engineer's opinion of probable cost. We are members of the West Virginia Contractors Association and review current bid-tabs on a weekly basis. CEC's team will prepare and provide construction cost estimates for the defined scope of work. CEC will work with the WVDNR to prepare and compile construction documents for bidding. We have strong contractor relationships and a history of successfully bidding projects. CEC will also attend bidding meetings and prepare any addendums during the process. Once bids have been received, CEC will evaluate all bids and provide a recommendation of award.

#### 4.1.7 Task 7: Construction Administration and Inspection Services

CEC's team will provide construction administration and inspection services to ensure all projects be built in accordance with the plans and detailed specifications. We will staff these tasks with in-house employees. The construction administration and inspection functions will include:

- Review of project submittals
- Review and approve contractor pay estimates
- Attendance of project management meetings
- Construction inspection
- Daily field reports of construction in progress

#### 4.1.8 Task 8: Project Closeout

Upon Completion of all projects, our team will provide a final as-built drawing in both CAD and PDF formats.

## 4.2 The successful firm or team should demonstrate a history of projects that met the owner's budget and a clear plan to ensure this project can be constructed within the project budget. This plan should be described in detail.

CEC performs our professional services under our corporate Quality Assurance Plan (QAP). This QAP was developed to verify the engineering, design, plans and other deliverables prepared by the project team and the various disciplines are supported by comprehensive studies and sound engineering judgment, in compliance with established policies, guidelines and standards, and contain appropriate design flexibility and cost saving measures. This QAP entails a comprehensive listing of CEC quality policies and standard operating procedures that are available on CEC's internal network. It is consistently reviewed and updated by a multi-office team of experienced professionals to ensure "Best Quality Control Practices" are uniformly applied. In support of this QAP, CEC is committed to the application of established design policies, guidelines, and processes developed and published by review and resource agencies. From a quality standpoint, technical personnel review the technical quality, accuracy and completeness of all designs, analyses, drawings, estimates, and report text. Peer-level personnel are responsible for the performance of an independent check of all calculations and project deliverables prior to each project milestone submission.

As part of the QAP, reviews will be performed for the appropriate element throughout the design/construction process. These reviews will be completed prior to submitting reports, plans, construction documentation, or other deliverables. These reviews will verify the adequacy of the information presented and compliance with established guidance documents. The QAP also documents procedures for work procedure and equipment use, employee and project safety, project management and records and communications. The goal and objective of the QC/QA Policy is to provide a safe and consistent delivery of quality services to the WVDNR.
Specific quality policies and standard operation procedures can be provided to the WVDNR if requested.

## 4.3 The successful firm or team should demonstrate a history of projects that have been constructed in the time allotted in the contract documents and a clear plan to ensure this project will be constructed within the agreed construction period. This plan should be described in detail.

Please refer to Section 5.0 Project Experience.

## 4.4 The successful firm or team should demonstrate competent and acceptable experience in all expected professional disciplines necessary for the design and completion of the project.

Please refer to Appendix A – Resumes, for a complete understanding of the assigned team.

# 5.0 Project Experience


### Mountain State - Jellystone Park - Phase I - Master Planning

CEC was hired to design the Mt State Jellystone in Kanawha County, West Virginia. The location is located at the busiest interchange in the state and the property is nearly 300 acres. CEC was hired to create the initial concepts for the resort which include and RV Park, Cabins, Yurts, Water Park, trails, utilities and roadways.


### Grand Vue Park - Master Planning and Site/Utility Design

Grand Vue Park is a 600 acre county park located in Marshall County, West Virginia. The park is an adventure park with trails, climbing walls, zip lines, disc golf, pool and cabins. CEC was hired for master planning services and site and utility design for the RV Park, platform campground, yurt and geodome village and bathhouses for each camping area. In addition to the lodging opportunities, CEC is working with the park board to create a Snowflex sledding hill which will create a 4-season attraction that complements the adventure park features.


### Stonewall Resort - Expansion

Stonewall Resort hired CEC to create an expansion area for lakeside cottages and site each cottage for grand views of and access to the lake. As part of the lakeside cottages, CEC's landscape architects also designed an overall implementation of the passive park, lakeside trail, wetland trail and cottage landscape. The cottages are currently nearing 40% of build-out.

In addition to the lakeside cottages, CEC has completed the proposed design concepts for the State Park lodging and day-use expansion. Included in the expansion is a new RV Park, Yurt Village, Platform Campground, Bath Houses, Amphitheatre, Pool, Restaurant, biking, hiking and Water Trail with interpretive signage.

Civil & Environmental Consultants, Inc.

# MYLAN PARK RV PARK

## OWNER/CLIENT

Mylan Park Foundation

## LOCATION

Morgantown, WV

## CEC SERVICES

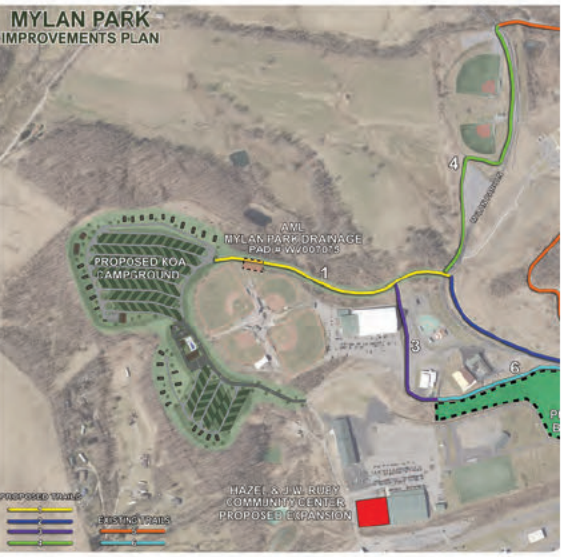
Erosion & Sedimentation Control/NPDES Permitting

Geotechnical Engineering

Roadway Design

Site Grading/Earthwork Analysis

Stormwater Management/BMP Design




*Proposed Campground Site*

## OWNER OBJECTIVE

Mylan Park Foundation supports the development of Mylan Park in Morgantown, West Virginia. Mylan Park is a full-service sports, recreation, wellness, and events complex spanning across 400 acres. The park is home to 14 indoor and outdoor facilities comprising more than 60 acres of athletic field space and more than 180,000 square feet of indoor sport, recreation, and event venues. The park includes trails for walking, biking, and carts, with plans to expand the trail system.

Mylan Park Foundation sought to add an RV Park and additional accommodations to add capacity to the park and allow event attendees to stay on site for the duration of their event. Mylan currently has a small RV area, but increased demand is creating a need for additional RV spaces and other lodging options.

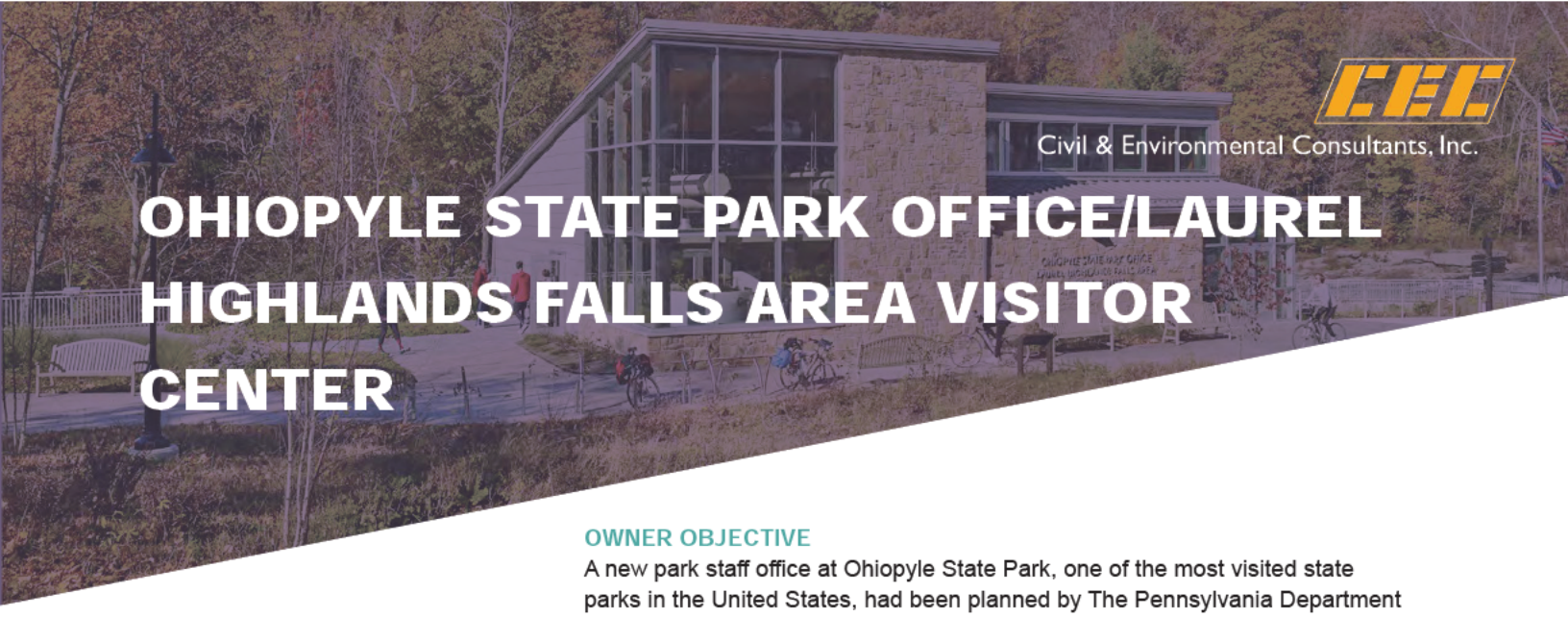
## CEC APPROACH

The RV Park is located on property that has been surface and deep mined. The mining reclamation has left gently sloping field on a majority of the site, but multiple feet of mine spoil is expected to be encountered during construction. Utility extension is required to serve the RV Park including water, sanitary sewer, and electric.

CEC has teamed with the Mylan Park Foundation to assist the organization in applying for funding opportunities, including the Abandoned Mine Lands and Reclamation (AML) Pilot Program, sponsored by the West Virginia Department of Environmental Protection (WVDEP). CEC researched past mining activities, preparing a report and mapping, and met onsite with WVDEP AML representatives to review the project and assisted in getting a portion of Mylan Park established as an abandoned mine land. Getting that designation allowed the project to be eligible for the AML Pilot Program.

CEC has begun designing the layout, grading, and utilities for the park, which includes approximately 167 RV spaces, 26 cabins, and a multipurpose trail to connect the RV Park to Mylan Park Lane. The park is planned to be a Kampgrounds of America (KOA) site, so CEC has coordinated the design with KOA to ensure the park meets their requirements. Because utilities, including water and sanitary sewer extensions, are required as part of the project, CEC also has coordinated with the Morgantown Utility Board (MUB) for connections and for the design of utility extensions beyond MUB's system.

Working closely with Mylan Park, KOA, and MUB to ensure the RV Park meets Mylan Park's needs while also heeding to KOA and MUB requirements, CEC anticipates submitting for permits in fall 2021 and for construction to being in spring 2022.



Civil & Environmental Consultants, Inc.

# OHIOPYLE STATE PARK OFFICE/LAUREL HIGHLANDS FALLS AREA VISITOR CENTER

## OWNER/CLIENT

Pennsylvania Department of Conservation & Natural Resources

## LOCATION

Fayette County, PA

## CEC SERVICES

Civil Engineering

Geotechnical Engineering

Land Survey

Structural Engineering

Landscape Architecture

Ecological Permitting

Green Stormwater Infrastructure

Wastewater Treatment System Design

Site Plan and Regulatory Approvals

Subcontractor Coordination

Ground-based Geothermal System Planning and QA

Sustainability Planning/Design

## AWARDS

LEED Gold Certified

2015 Forever Green Award (USGBC)

## OWNER OBJECTIVE

A new park staff office at Ohiopyle State Park, one of the most visited state parks in the United States, had been planned by The Pennsylvania Department of Conservation and Natural Resources (DCNR) along with a new Interpretive Center for visitors. The center's primary function is to introduce and orient visitors to the many activities and features that Ohiopyle State Park, Ferncliff National Natural Area, and Ohiopyle Borough have to offer.

## CEC APPROACH

This was the fourth project under a master services agreement with DCNR, and CEC would lead the design discussions for the facility and provide site civil engineering, structural engineering, geotechnical engineering, surveying, and landscape architecture services—all with a goal to have the facility achieve LEED® Gold certification.

CEC utilized Building Information Modeling (BIM) software for the structural design of the building while architectural services, HVAC, plumbing, and electrical design services, as well as commissioning services, were provided by sub-consultants.

The ~8,000-gross-square-foot facility includes an interpretive exhibit space, multipurpose room, park staff offices, and a boater registration area. The development also includes ecological landscaping, new access paths, permeable paving and dark sky lighting. It serves as a key portal location for the region, and is a prime example of sustainable, low-impact development design. Innovative energy and utility systems were also implemented, as well as a specialized biological wastewater treatment system integrated with a wetland. The system utilizes soils, plants, and microorganisms to break down wastewater effluent produced by the facility. A ground-based geothermal well field provides primary heating and cooling for the interior.

The project received the 2015 Forever Green Award presented by the Central Pennsylvania Chapter of the U.S. Green Building Council.

Civil & Environmental Consultants, Inc.

# THE COTTAGES AT BLACKBERRY FARM

### OWNER/CLIENT

Blackberry Farm

### LOCATION

Walland, TN

### CEC SERVICES

Grading & Utility Design

Civil & Site Design

SWPPP Submittal

### OWNER OBJECTIVE

The Beall family invested in a site that became their family home and a lifelong passion. Situated on a pastoral 4,200-acre estate in the Great Smoky Mountains, the property is now one of the top-rated and most celebrated hotels in the world, Blackberry. In 2009, the client sought to expand upon the lodge and create luxury hillside cottages complete with a personal concierge for guests who request a more private Blackberry experience.

### CEC APPROACH

Building on a previous professional relationship, the client contracted VISION Engineering and Development Services, Inc. (now a CEC Company) for civil engineering and grading/utility design services for the construction of new guest cottages on the property. VISION/CEC helped guide the client through the environmental features of the project and acted on their behalf in working with the Tennessee Department of Environment and Conservation. The project came with typical East Tennessee topographic challenges, as well as the need for construction to be completed while maintaining the privacy of Lodge guests.

Civil & Environmental Consultants, Inc.

# THE LODGE AT BUCKBERRY CREEK

### OWNER/CLIENT

McLean Family Partnership

### LOCATION

Gatlinburg, TN

### CEC SERVICES

Surveying

Civil & Site Design

Planning & Permitting

Construction Phase Services

### OWNER OBJECTIVE

McLean Family Partnership sought to create a rustic, yet refined lodge that felt as if the guests were stepping back in time, yet with all the modern amenities. The views of the Great Smoky Mountain National Park are the focal point of the 44 luxuriously, individually appointed suites and restaurant. Keeping the natural beauty of the area in mind, the client wanted their guests to enjoy the classic comfort of the amenities of the room while being treated to the rare combination of natural luxury and vintage comfort.

### CEC APPROACH

The McLean Family Partnership engaged VISION Engineering and Development Services, Inc. (now a CEC Company) to provide civil engineering and surveying services related to the development and new construction of a 26-acre resort. VISION/CEC provided design guidance and peace of mind to the client along every phase of the project. Surveying services were required for drainage and physical features of the development, as the site presented many topographic challenges.

Civil & Environmental Consultants, Inc.

# WESTGATE SMOKY MOUNTAIN RESORT & SPA

## OWNER/CLIENT

Westgate Resorts

## LOCATION

Gatlinburg, TN

## CEC SERVICES

Surveying

Annexation

Rezoning

Master Planning

Site Design

Erosion Control Design

Construction Phase Services

## OWNER OBJECTIVE

Westgate Smoky Mountain Resort & Spa is a mountainside resort with world class accommodations and amenities. Westgate Smoky Mountain Resort & Spa sits on approximately 255 acres, with 55 acres developed, adjacent to the Great Smoky Mountains National Park, the largest national park East of the Rockies.

## CEC APPROACH

CEC has worked with Westgate Resorts on this on-going resort project since 1998. CEC has performed all site-related services for this resort, which currently has 700 units completed of a planned 2,900 units, along with an indoor waterpark, restaurants and various other facilities.

# BEECH FORK STATE PARK LODGE

LOCATION
LAVALETTE, WV

COMPLETION
TBD

COST
$28.49M

## The goal of the lodge study was to help determine the feasibility for a new lodge at Beech Fork.

This objective was achieved through the development of a concept for a 75-room lodge, located on the banks of Beech Fork Lake in Wayne County, WV, which is designed to benefit a variety of visitors. The form of the building was influenced by the site configuration, as well as the functions contained within it.

The floor plan is arranged in a way to separate the guestrooms and other guest-only facilities from the more public functions of the building, such as the restaurant, pub, gift shop, and meeting room. This allows visitors who may not be staying at the lodge to use these areas, without encroaching on the privacy of lodge guests. All of the guestrooms are arranged to have access to views of the lake. Those views are also shared by the restaurant, meeting room, and the recreation areas.

The exterior of the building is designed to simulate the craftsman style to evoke a more relaxed, comfortable, and informal feel for guests and visitors. The brick, stone, siding, and roof materials are common to the area and offer low-maintenance and durability to provide a long-lasting, attractive structure.

# CHARLESTON EDGE

| LOCATION | SIZE | COST | AWARDS |
|---|---|---|---|
| CHARLESTON, WV | 22,000 SF | EST. $5M | 2018 AIA WV CITATION |

## The proposed Charleston EDGE mixed-use facility contains twelve residential units, with retail on the first level, and program and amenity space on the roof.


The purpose of the Early Dynamic Guided Engagement (EDGE) project is to provide a facility that will provide both affordable downtown housing and collaborative community space, that aims to attract and retain young talent to the Charleston community. The project commenced with the design team obtaining input from community leaders and young professionals. After investigating potential locations, it was decided to approach the project as an adaptive reuse of a dilapidated structure. The design intent was to compliment the historic character of the existing building, while maximizing the potential redevelopment as residential space.

The majority of potential EDGE program participants preferred a one-bedroom space with a separate office area. A typical residential unit plan was developed and then modified to meet the constraints of the existing structure, creating a variety of unique unit types that all respond to a shared vision. To support community engagement, flexible meeting spaces were added on the roof level. This space was set back from the major building elevations to diminish the impact of the new construction on the historic nature of the building, which created the opportunity for a large exterior gathering space on the roof.


# JOINT INTERAGENCY TRAINING AND EDUCATION CENTER (JITEC)

**LEED GOLD**

| LOCATION | SIZE | COMPLETION | COST | AWARDS |
|---|---|---|---|---|
| KINGWOOD, WV | 283,000 SF | 2013 | $100M | 2011 AIA WV HONOR AWARD |

## ZMM, in association with AECOM, provided architectural and engineering design services for JITEC, an Army National Guard campus-style facility for training and operational mission support.

Sited on 30 acres near Camp Dawson, this project included the design of a new operations building, expansion of the billeting facility, renovation of the training facility, and creation of a new base access control point (ACP) and visitor's center. The vision behind the site design and updated master plan is that of a college campus atmosphere. The facility is designed to meet all anti-terrorism/force protection criteria and has achieved LEED Gold Certification. The operations building is prominently sited as the main focal point upon entering Camp Dawson and consists of four distinct areas: the Joint Operations Center (JOC), a suite of secure training rooms, base headquarters and JITEC administrative offices, and a server and telecommunications room.

Built to SCIF standards, the JOC contains a state-of-the-art command center, housing 48 permanent work stations in a theater-style configuration, facing a large video wall, flanked by conference rooms and offices for both officers and support staff. The billeting (hotel) expansion's lobby design provides a hotel atmosphere, underscored by the Liberty Lounge, an upscale bar and restaurant area, with wood finishes salvaged from the gymnasium floor of the former Preston County Armory.

ZMM ARCHITECTS ENGINEERS

# CLAUDIA L. WORKMAN FISH & WILDLIFE EDUCATION CENTER

| LOCATION | SIZE | COMPLETION | COST |
|---|---|---|---|
| ALUM CREEK, WV | 7,000 SF | 2021 | $5M |

## The ZMM team has provided preliminary site and building design for the Claudia L. Workman Fish and Wildlife Education Center at the Forks of Coal State Natural Area.


Services include the development of a property survey, topographic mapping, site analysis, review of existing infrastructure and required utility upgrades, preliminary entry road and parking design, site master planning and key development renderings, site development cost estimates, and trail mapping. Our team also coordinated preliminary planning phase services with environmental, architectural, exhibit design, and marketing team members.

The facility, the Claudia L. Workman Fish and Wildlife Education Center, is a nearly 7,000 SF building nestled in the beautiful West Virginia landscape. The building layout concentrates on both the visitor and user experience, while creating a dynamic space to celebrate some of West Virginia's greatest natural treasures. One of the key concepts of the building is to represent our wild and wonderful state by incorporating natural materials such as stone, a variety of woods, and other natural finishes.

A central axis is formed by the main entrance, the lobby, and a small exterior platform which frames an inspiring view. This central space sets the tone for the visitor's experience with heavy timber, vaulted ceilings,

# ADDITIONAL WVDNR EXPERIENCE

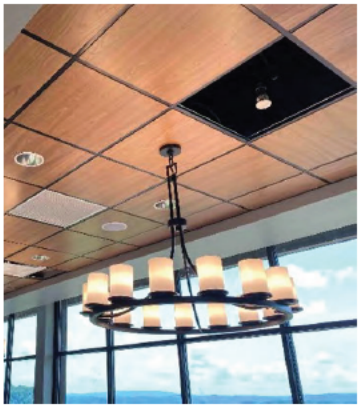
Pipestem Resort State Park - McKeever and Mountain Creek Lodge Renovation
Pipestem, WV

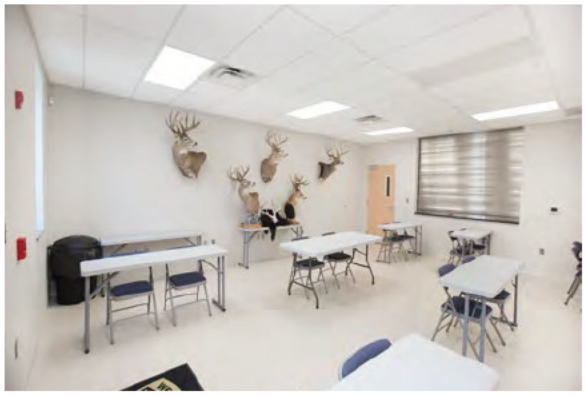
Hawks Nest State Park - Miscellaneous Projects
Ansted, WV

Twin falls State Park - Lodge and Convention Facility Expansion and Master Plan
Mullens, WV

District V Headquarter Renovation
Alum Creek, WV

Tomblin Wildlife Management Area Office/Shop and Elk Viewing Platform
Alum Creek, WV



ZMM ARCHITECTS ENGINEERS

# AWARD WINNING DESIGN

## 2020

**AIA West Virginia Chapter: Merit Award**
***Achievement in Architecture for New Construction***
Mountain Valley Elementary School
Bluefield, West Virginia

**AIA West Virginia Chapter: Merit Award**
***Achievement in Architecture***
Ridgeview Elementary School
Crab Orchard, West Virginia

## 2019

**AIA West Virginia Chapter: Honor Award**
**AIA West Virginia Chapter: Citation Award**
**AIA West Virginia Chapter: People's Choice Award**
Charleston Coliseum & Convention Center
Charleston, West Virginia

## 2018

**AIA West Virginia Chapter: Citation Award**
***Unbuilt Project***
Charleston EDGE
Charleston, West Virginia

## 2017

**AIA West Virginia Chapter: Merit Award**
***Achievement in Architecture***
Explorer Academy
Huntington, West Virginia

**AIA West Virginia Chapter: Merit Award**
***Achievement in Sustainability***
Logan - Mingo Readiness Center
Holden, West Virginia

## 2016

**AIA West Virginia Chapter: Merit Award**
***Achievement in Architecture in Interior Design***
Christ Church United Methodist
Charleston, West Virginia

ZMM ARCHITECTS ENGINEERS

# Hospitality

## Gat Creek, Cabins at Cacapon Resort State Park

Client: Caperton Furniture Works / Gat Creek
Contact: Gat Caperton, President & CEO
5270 Valley Road, Berkeley Springs, WV 25411
304.258.2343 x 115, gat@gatcreek.com

Project: Furniture, bedding, and window treatments for Classic and Legacy Cabins Size: 8,261 SF
Location: Cacapon Resort State Park, Berkeley Springs, WV 25411 Cost: $199,929

Gat Creek was asked by the WV State Parks to provide a turn-key solution for the Classic Cabins at Cacapon Resort State Park, and hired Watkins Design Works as their design consultant. The first project comprised two model cabins and services included furniture layouts, furniture and finish selections, window treatments, and bedding. It is anticipated that the remaining Classic Cabins will follow later this year.

Since the Classic Cabins have pine walls and ceilings as well as wood flooring, wood finishes for the furniture are gray and green, darker in the living / dining room and lighter in the bedrooms. Gray fabrics compliment the warm walls, and local CCC-era artwork add to the charm.

Watkins Design Works, LLC
815 Quarrier Street, Suite 202
Charleston, WV 25301
304.553.7002 office
www.watkinsdesignworks.com

The second project encompassed the same services for the CCC-era Legacy Cabins at Cacapon. The design for these is in keeping with the period...craftsman-style tables and chairs, hammered metal lamps, a cherry wood finish, and an arts & crafts style upholstery pattern for the lounge chairs and sofa. Modern touches include bright blue bedding fabric and pale blue-green wood finish on chests of drawers. Watkins Design Works also designed a modification to one of Gat Creek's pieces to fit the unique size and layout in some of the cabins.

Watkins Design Works, LLC
815 Quarrier Street, Suite 202
Charleston, WV 25301
304.553.7002 office
www.watkinsdesignworks.com

# Hospitality

## Gat Creek, Cabins at Canaan Valley Resort State Park

Client: Caperton Furniture Works / Gat Creek
Contact: Gat Caperton, President & CEO
5270 Valley Road, Berkeley Springs, WV 25411
304.258.2343 x 115, gat@gatcreek.com

Project: Interior design, furniture, and window treatments for the cabins
Location: Canaan Valley Resort State Park, Davis, WV 26260

Gat Creek was asked by Regency Hotel Management and the WV State Parks to provide a turn-key solution for the 4-bedroom cottages and 2-bedroom cabins at Canaan Valley Resort State Park, and hired Watkins Design Works as their design consultant. The project includes furniture and finish selections, window treatments, and lighting. The project should be completed in time for ski season.


Watkins Design Works, LLC
815 Quarrier Street, Suite 202
Charleston, WV 25301
304.553.7002 office
www.watkinsdesignworks.com

# Government / Hospitality

## West Virginia State Parks, Cabins at Pipestem and Twin Falls State Parks

Client: West Virginia Division of Natural Resources
Contact: Paul Redford, District Administrator, Lodge and Resort District
Parks and Recreation Section, 324 4th Avenue, South Charleston, WV 25303
304.558.2764, paul.a.redford@wv.gov

Project: Cabin interiors, furniture, and window treatments — Approx. Size: 31,425 SF
Locations: Pipestem Resort State Park and Twin Falls Resort State Park — FFE Cost: $687,902

Watkins Design Works provided interior design services for the 1960's-era cabins designed by The Architects Collaborative out of Boston and Irving Bowman & Associates of Charleston. The original cabins received new kitchens, bathrooms with floor and wall tile, a variety of accent paints, modern window shades, and new furniture. Artwork was specified from West Virginia artists and framers. The furniture itself is all made in America, including Berkeley Springs, WV. The fabrics are also made in America, are extremely durable, with good indoor air quality and recycled content. Watkins Design Works made some modifications to some of Gat Creek's wood furniture for end tables and coffee tables.

Watkins Design Works, LLC
815 Quarrier Street, Suite 202
Charleston, WV 25301
304.553.7002 office
www.watkinsdesignworks.com

# 6.0 References

**Gat Caperton**
*President & CEO, Caperton Furniture Works*
5270 Valley Road, Berkeley Springs, WV 25411
304.258.2343 x 115 office
gat@gatcreek.com

**Mike Dreisbach**
*Owner - Savage River Lodge*
*1600 Mt. Aetna Road, Frostburg, MD 21532*
*301-689-3200*
*mike@savageriverlodge.com*


**Judy Rodd**
*Director - Friends of Blackwater*
571 Douglas Road, Thomas, WV 26292
304-345-7663
info@saveblackwater.org

**Beth Fox, PE**
*City Engineer - City of Bridgeport*
515 W. Main St, Bridgeport, WV 26330
304-842-8200 x 204
bfox@bridgeportwv.com

**Rudy Henley**
*Associate Broker - WV Commercial Real Estate - Stonewall Resort*
305 Washington Street, Charleston, WV 25302
304-347-7520
jrhenley@wv-commercial.com

# A. Resumes

# James Christie, P.L.A.
Principal

## REGISTRATIONS

Registered Landscape Architect
- CO [redacted]
- WV [redacted]
- MD [redacted]

## 23 YEARS OF EXPERIENCE

## EDUCATION

B.S., Landscape Architecture, West Virginia University, 1998

Jim is a Principal in the Civil department. In his capacity, he is responsible for complete project management within CEC. He is responsible for site design, landscape architecture, site development entitlement services, construction documents, client management, personnel supervision, and construction administration on numerous municipal, commercial, and institutional projects. Jim is a detail-oriented, highly-creative Landscape Architect with 23 years of dedicated experience in designing and implementing projects to support client needs and meet business objectives. His wide range of project experience ranges from landscape design to destination resort design in multiple regions both within the United States and internationally. Jim has dedicated his career to projects that have a direct effect on the local economy and job growth.

## PROJECT EXPERIENCE

### Stonewall Resort Peninsula Cottages, Stonewall Resort, Roanoke Lewis County, WV*

The Cottages Peninsula is a new product with in Stonewall Resort. This area will have twenty seven new homes set in a wooded area with direct connection to the lake. As part of this project, a passive park and trail network are also included for the use of cottage owners and guests. The trail system includes the first wetland trail system in the resort. Jim also designed the grading and landscape plans for the first set of cottages. Current ongoing work with Stonewall Resort to complete Cottages as well as a master plan for a new splash park, hot tub and board walk trail area adjacent to the main lodge.

### Grand Vue Park Master Plan, Omni Associates, Moundsville, WV

**Role**: Project Manager

Jim served as the project manager and lead designer for the 600+ acre park master plan. The client extended the project for the creation of the first phase of camping in the form of a 40 lot RV park and 20 lot primitive camping area. Construction will be completed in the fall of 2021.

### Palatine Park, Marion County Commission, Fairmont Marion County, WV*

Palatine Park was designed to be a multi-use amphitheater facility and has become the gathering place in Marion County. The Phase 1 masterplan included a tiered grass amphitheater, splash park, multiple restroom facilities and a large parking area. The entire site meets ADA requirements and was designed to allow multiple events to happen simultaneously within the park grounds. Each area was planned to have multiple uses such as greenspace, event tent areas and full electric so that farmers markets, art festivals and concerts have multiple opportunities for vendor setups as well as for the public to utilize for everyday use. The project was fast tracked and had to be designed, bid and built in a six-month timeframe in order to be completed and operational for the Marion County's Three River Festival in 2014. Since the opening of the park, the amphitheater and associated spaces have become the center of entertainment and gathering in Marion County throughout the year.

### Blackwater River Loop Connector Trail, Friends of Blackwater, Thomas, WV

**Role**: Project Manager

Jim serves as the project manager and landscape architect for the Blackwater River Loop Connector Trail. The Trail is designed as a tourism draw and will connect the towns of Davis and Thomas with a pedestrian corridor. In addition, the trail connects to Blackwater Falls State Park. In the Park, CEC has designed a pedestrian bridge over Pendleton Falls, a look out at Pace Point and finally a wood suspension bridge at Douglas Falls. The trail will allow for additional site seeing opportunities for visitors of the State Park and Canaan Valley. The project is currently under design with construction slated to begin in the spring of 2022.

# James Christie, P.L.A.
## Principal

**Mt State Jellystone Resort, Blue Water Development Group, Charleston, WV**
**Role**: Project Manager
Jim serves as the project manager and lead designer of the 300+ acre Jellystone Resort. The camping resort will have over 300 RV, Camping and Cabin units. In addition, the resort will have adventure sports, outdoor water park and trails. Construction is to begin in the spring of 2022.

**Tomlinson Run State Park Improvements, West Virginia Division of Natural Resources, New Cumberland, WV**
**Role**: Project Manager
CEC was hired to creating ADA pathways, fishing platforms, interpretive signage and adjustments to the disc golf course to coincide with stream and wetland redesign.

**Wave Pool Demo and Concept, MCPARC, Pleasant Valley Marion County, WV***
In 2016, the MCPARC worked with Jim to create a demolition plan for the existing Wave Pool buildings as well as create a conceptual plan to address the needs and opportunities for a new building and amenities for the Wave Pool at East Marion Park. The conceptual plan included multiple upgrades as well as multiple revenue producing areas that are currently not at the pool facility such as a FlowRider, rentable cabanas and flex space for events.

**The Eastern Continental Divide Loop Trail Master Plan, Garrett Trails, McHenry Garrett County, MD***
Served as Master Planner, Landscape Architect, and Project Manager. Building from the success of the Great Allegheny Passage (GAP), the Eastern Continental Divide Loop Trail (ECDLT) is a multi-use trail system which starts along the GAP and travels south along the continental divide connecting communities, state parks, resorts, wild and scenic rivers, and reservoirs on a 150-mile journey until connecting again with the GAP trail. Successfully presented the idea of a marketing booklet to showcase the idea and plans for the trail to be used to obtain funding through private donations and governmental backing. Through this booklet, Garrett Trails has obtained over $800,000 for completing sections of the trail and is continuing to utilize it for future grants.

**Allegany County Bicycle and Pedestrian Master Plan, Cumberland Area Metropolitan Planning Organization, Cumberland Allegany County, MD***
Building from the success of the Great Allegheny Passage (GAP), The Cumberland MPO utilized a master plan of the region to take advantage of the GAP trail as the pedestrian backbone for connectivity in the region. It creates connections to all of the municipalities, recreational areas in the region and allows for an alternative type of transportation. Jim was the creative director and project manager of the creation of the master plan which was adopted by Allegany County into their latest comprehensive plan.

**Loch Lynn Heights Wetland Boardwalk Trail, Loch Lynn Heights, Loch Lynn Heights Garrett County, MD***
Part of the Easter Continental Divide Loop Trail system, the Wetland Boardwalk Trail is a boardwalk trail as well as on-grade trail through multiple classifications of wetlands and upland forest taking the visitor on a journey through multiple environments and the little yough river. The boardwalk system was built on helical piles to create a sensitive environmental solution to the high altitude wetland at the headwaters to the Wild and Scenic Youghiogheny River. This trail is the first helical pile boardwalk system in Western Maryland. This trail was not only to give the public access and education to wetlands but also to keep ATV's out of the sensitive environment. All three phases of the project are completed.

**Campus ADA Upgrades Concord University, Concord University, Athens Mercer County, WV***
Served as Project Manager overseeing ADA improvements on campus including buildings and major pedestrian access routes. Utilized creative retrofitted designs to create accessible routes on buildings designed in the 1960's that did not consider accessible routes. Designed and completed in 2014 at a cost of $1 million. The project had tight time constraints for completion as well as a wide range of University events to coordinate the construction around.

**Brooke Hills Park, Brooke Hills Park, Wellsburg Brooke County, WV***
Brooke Hills Park is a 700 acre park in the northern panhandle of West Virginia. Jim project managed a team of consultants on a lodge feasibility study and master plan. Currently Jim is leading the implementation of the 2016-17 phase of the project which includes, a new pool, pool buildings, additional parking, multi-use athletic facilities, disc golf and residential cabins. This is an ongoing project which provides additional amenities and an economic draw for the community.

# James Christie, P.L.A.
## Principal

**WVU - Evansdale Campus Entry Realignment, West Virginia University, Morgantown Monongalia County, WV***
Jim was chosen to create multiple concepts for the solution to the pedestrian and vehicular conflicts on Evansdale Campus. The focus was on the entry along Monongahela Boulevard between the Coliseum parking lot and Campus. Jim's design of moving the intersection not only helped the pedestrian crossing issue but also took advantage of creating a secondary entrance and exit for the Coliseum parking lot. By moving the intersection, the two traffic signals were able to be synchronized, which has lead to better traffic flow into the lot and campus respectively.

**Great Allegheny Passage Mile Markers, Allegheny Trail Alliance, Homestead Allegheny County, PA***
The Great Allegheny Passage is a 150 mile long distance bike trail from Pittsburgh, PA to Cumberland, MD which follows an abandoned railroad line for most of its journey. Most of the trail is in rural regions and the Allegheny Trail Alliance (ATA) hired Jim to create a creative way to mark the miles for the trail users. This will allow them to know where they are for navigation as well as for safety and maintenance. Jim's idea was to utilize material that was similar to once was on the railroad but also something historical. The final choice was granite curbing repurposed from the Longfellow Bridge in Boston. The granite would then have the mile markers sandblasted into the sides and at special points have the name of the trailhead or significant historical sites. The mile makers are currently being installed by the ATA.

**Town of Bath Streetscape, Town of Bath, Bath Morgan County, WV, USA***
Jim was the project manager and landscape architect for the Bath (Berkeley Springs) streetscape project. In his role, he coordinated with the Town of Bath, the WVDOH and Berkeley Springs State Park to create the sense of place along Route 522 (Washington St) and Fairfax Street in the resort area of downtown Berkeley Springs. The project utilized green infrastructure to treat the sidewalk and road runoff prior to returning to Warms Springs Run. The project also included new ADA access as well as lighting and landscaping features. Beyond the sidewalk and green infrastructure, the project also consisted of a historic brick street which was replaced with current heavily load pavers to keep with the history of the area which services commercial water trucks daily.

**Parsons Streetscape, City of Parsons, Parsons Tucker County, WV***
Jim served as the landscape architect and creative lead for the Parsons Streetscape on Route 219. The streetscape included decorative brick pavers, historical period lighting and was coordinated with the addition of the new County Courthouse Annex. The project also had challenges with basements and coal shoots under the existing sidewalk as well as ADA challenges with multiple heights on entries into existing buildings. This was the first phase of streetscape and it has set precedent for the future streetscaping of Parson's downtown.

**Fairmont Connectivity Plan, Mainstreet Fairmont, Fairmont Marion County, WV, Marion***
Jim was the project manager for the Fairmont Connectivity Plan. The Connectivity Plan is a master plan booklet mapping out improvements for pedestrian connections within the City of Fairmont and surrounding Marion County. The plan's goal is to encourage walking and biking as a viable mode of transpiration for all residents and visitors. The plan utilizes the existing and proposed rail trails as the backbone of the pedestrian system and links neighborhoods to schools, government agencies, shopping areas and recreational opportunities.

**Bridgeport Rec Center, Omni Associates, Bridgeport, WV**
Civil/Site engineering and landscape architectural services for the proposed City of Bridgeport 40 million dollar recreational complex on 55+ acres. The complex will include four NCAA regulation sand cap all-purpose natural grass fields with associated irrigation and drainage systems, one synthetic turf field and drainage system, indoor turf facilities, aquatic center, tennis courts, basketball courts and various other recreational amenities. To create the 55+ acre site in mountainous terrain and meet ADA regulations, the project will move 350,000 cubic yards of earth.

**Public Sector | Municipal**
**Norwood All Inclusive Park, City of Fairmont, Fairmont, West Virginia**
**Role**: Project Manager
CEC was hired to create an All Inclusive park designed to include all ages and physical abilities. It is to be the first All Inclusive park in North Central West Virginia and a model for other communities. Currently under design.

# James Christie, P.L.A.
## Principal

**West Monroe Downtown Master Plan, Atlas Community Studios, West Monroe, LA**
**Role**: Landscape Architect
Jim was hired by Atlas Community Studios to create a downtown master plan for the city to follow during redevelopment. Jim served as the project manager and landscape architect on the project. While designing the master plan, Jim coordinating public meetings for feedback on the concepts.
** Work performed prior to joining CEC*

### AWARDS

ALCC Water Feature Merit Award – Betty Ford Alpine Garden, Vail, Colorado, 2003

ALCC Xeriscape Grand Award – Private Estate, Eagle County, Colorado, 2004

ALCC Xeriscape Grand Award – Betty Ford Alpine Garden, Vail, Colorado, 2004

ALCC Water Feature Merit Award – Mewhinney Residence, Avon, Colorado, 2011

ALCC Design/Build Merit Award – Private Residence, Vail, Colorado, 2011

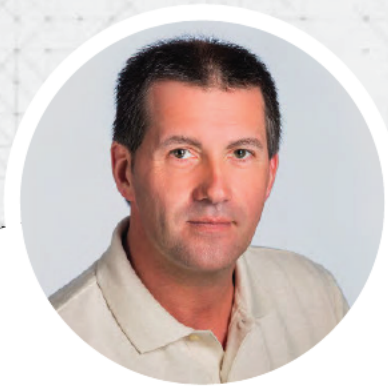
2013 Volunteer of the Year – Garrett County, MD Chamber of Commerce

### PROFESSIONAL AFFILIATIONS

Trout Unlimited

American Society of Landscape Architects

# Steve A. Cain, P.E.
Vice President



## 28 YEARS OF EXPERIENCE

### EDUCATION

B.S., Engineering Technology - (Civil Emphasis), Fairmont State University, 1992

### EXPERTISE

Sanitary Sewer Evaluation Surveys

Wastewater Pumping System Design & Rehabilitation

### REGISTRATIONS

Professional Engineer
- WV [redacted]
- MD [redacted]

### CERTIFICATIONS

SafeLand USA - Basic Orientation, PEC Safety

10-hour Construction Safety, Occupational Safety & Health Administration

Mr. Cain, a professional engineer with CEC, has 28 years of experience in civil engineering design and project management.

Steve's experience in civil engineering design encompasses many aspects of civil engineering design including land surveying, mapping, site development, sanitary sewer system design, storm sewer system design, potable water distribution system design and hydraulic modeling. Additionally, Steve also has experience in water treatment system design and rehabilitation as well as wastewater treatment design.

Steve has also spent a large part of his career in managing projects from conception to completion. As a project manager Steve has assisted clients in identifying potential project needs, assisting the client in securing project funds, performed and directed detail design, and participated in and managed construction activities.

### PROJECT EXPERIENCE

**Boaz Development Site Design, Pope Properties, Williamson, WV**
**Role**: Project Manager and Lead Design Engineer
Project Manager and engineer for site design and permitting for a 144 unit residential patio home complex in Williamson, WV. Project required site design and grading, storm water design, utility coordination, and local/state permitting. Utility design included a duplex sanitary sewer lift station and connection to the existing utility force main.

**Emerson Commons , Pope Properties , Parkersburg, WV**
**Role**: Project Manager and Lead Design Engineer
Lead the design and preparation of construction drawings for three phases of the expansion of Emerson Commons Development of approximately 45 acres in Parkersburg, West Virginia. Provided engineering oversight on the site grading design and earthwork balancing, roadway and utility design, stormwater management design, and highway improvement plans for Emerson Avenue (WV Route 68). Performed the construction management for the project and provided on site engineering during construction services.

**Charles Pointe Development , Genesis Partners, Bridgeport, WV**
**Role**: Project Manager and Lead Design Engineer
Lead the design and preparation of construction drawings of approximately 104 total acres to yield approximately 67 pad-ready acres that will support an estimated 650,000 square feet of sales tax generating uses, an estimated $80 million of new construction, an estimated annual excise sales tax of $9.75 million, and an estimated annual property tax of $1.5 to $2 million. Provided engineering oversight on the site grading design and earthwork balancing, roadway and utility design, stormwater management design, and highway improvement plans for Jerry Dove Dr. (WV Route 279). Performed the construction management for the project and provided on site engineering during construction services.

# Steve A. Cain, P.E.
## Vice President

**Square at Falling Run, Mac Warner, Morgantown, WV***
Steve was the Project Engineer for the Phase 1 Site Development of a new 14-story, 180-unit apartment complex. The project included the site grading plan, water and sewer utility design, access design, and preliminary design on road improvements.

**Fisher Mountain Estates, LGI, Pendleton County, WV***
Steve was the Assistant Project Manager for a 1000-lot residential subdivision which includes conceptual land plans, final construction drawings for roads, utilities, water treatment plant and storage tanks, wastewater treatment plant, and permitting.

**Route 250 Waterline Relocation, City of Fairmont, Fairmont, WV***
Steve was the Assistant Project Manager in the creation of plans for the relocation of the 12-inch water line located along the east side of US Route 250 south of Fairmont for the City of Fairmont in preparation for a road widening project. Steve served as a contact point for the projects, as well as project engineer compiling field notes, developing construction plans, and assembling construction details.

**Route 250 (Raw) Waterline Relocation, City of Shinnston, Fairmont, WV***
Steve was the Assistant Project Manager in the creation of plans for the relocation of the 16-inch raw water line located along US Route 250 South of Fairmont for the City of Shinnston in preparation for a road widening project. Served as a contact point for the projects, as well as project engineer compiling field notes, developing construction plans, and assembling construction details.

**S. Alabama Street and S. Georgia Street Improvements, City of Martinsburg, Martinsburg, WV**
**Role**: Project Manager and Lead Design Engineer
Provided project management and lead design engineering for the site investigation, surveying, curbing design, pavement rehabilitation design, preparation of construction documents, construction administration, and construction quality assurance for South Georgia Street and South Alabama Street. Total rehabilitation cost for both of the streets was nearly 1.3 million dollars and included the rehabilitation and addition of nearly 25 ADA accessible ramps.

**High Street Retaining Wall and Pedestrian Access, City of Shinnston, Harrison, WV***
Steve was the Project Manager for providing the planning, detailed design, specifications, cost estimates, construction bid documents, and construction engineering and inspection for the construction of a retaining wall to stabilize High Street embankment. The project also included the rehabilitation of the sidewalks and pedestrian access steps that connected High Street to the downtown area.

**Barry Street Sanitary Sewer Evaluation Survey (SSES), City of Fairmont, Fairmont, WV***
Steve was the Project Manager for providing SSES to determine the cause of basement flooding of 10 residents from the sanitary sewer system along Barry Street in the City of Fairmont. The work included smoke testing the Barry Street drainage shed that provides sanitary and storm sewer service to approximately 200 City of Fairmont customers to determine illegal connections to the sanitary sewer system. Steve performed dye testing and coordinated Close Circuit TV inspection services to determine the cross connections of the storm sewer to the sanitary sewer. A written report was provided summarizing the deficiencies found and provided a written recommendation for corrections that included a preliminary cost estimate for construction.

**Sanitary Sewer Improvements Phase II, City of Shinnston, Shinnston, WV***
Steve was the Project Manager for the preliminary and final engineering design services for the sanitary sewer system extensions for the Shinnston Sanitary Board. The project consists of the extension of gravity sewer collection and transmission system into areas outside of the City of Shinnston corporate limits to provide public wastewater treatment to approximately 170 new customers. The project area encompasses areas know as Drain Hill, WV20 (Haywood Road), Gypsy Hill, and Gypsy Hill Road. The new system will include six new duplex pump stations and will transport customer wastewater to the City of Shinnston existing wastewater treatment plant.

**Sanitary Sewer Improvement Project, City of Grafton, Grafton, WV***
Steve was the Project Engineer for investigating and recommending sanitary sewer improvements that were necessary for compliance with the City of Grafton's Long Term Control Plan (LTCP). The planned improvements included the installation of a new sanitary collection system in the older downtown area of the city that currently has a combined storm/sanitary system. The project will include approximately 10,000 LF of line installation, along with 54 manholes.

# Steve A. Cain, P.E.
## Vice President

**Wastewater System Improvements, Town of Franklin, Franklin, WV***
Steve prepared for submission to the West Virginia Infrastructure Jobs and Development Council for a preliminary engineering report detailing the proposed upgrades and improvements to the Town of Franklin's existing 200,000 GPD lagoon system wastewater treatment plant. The project also included collection system improvements by means of internal pipe lining systems and the installation of the new manholes within the Town's older downtown collection system. Steve also provided final design of the proposed improvements.

**Kingmill Valley PSD Sewer Upgrades Phase II, KMVPSD, Marion County, WV***
Steve prepared the preliminary engineering report for the submission to the West Virginia Infrastructure Jobs and Development Council for the design and construction of a new wastewater collection system for the Millersville area of Pleasant Valley, West Virginia. The project also included the design of upgrades to nine existing wastewater pumping stations. Preliminary engineering report included preliminary engineering design, cost estimates, and proposed funding scenarios.

**Sanitary Sewer Improvements Phase I, City of Shinnston, Shinnston, WV***
Steve was the Project Manager for the preliminary and final engineering design services for the sanitary sewer system improvements for the Shinnston Sanitary Board. The project consisted of the study of the city's entire sanitary sewer system and identifying areas where significant amounts of inflow and infiltration are entering the sanitary sewer system and proposing corrective action. Preliminary engineering services included extensive sanitary sewer evaluation surveys, which included detailed field inspections of existing facilities, smoke and dye testing, flow monitoring, line videos, and hydraulic modeling. Preliminary engineering services also included the planning of proposed improvements, feasibility studies, and assistance in obtaining funding. Final design of accepted alternatives, bid package preparation, construction management and inspection services, and as-built drawing preparation were also part of this project.

**Sanitary Sewer Improvements, City of Fairmont, Fairmont, WV***
Steve was the Project Engineer for the preliminary and final engineering design services for the sanitary sewer system improvements for the Fairmont Sanitary Board. The project consisted of the study of the city's entire sanitary sewer system and identifying areas where significant amounts of inflow and infiltration are entering the sanitary sewer system and proposing corrective action. Preliminary engineering services included extensive sanitary sewer evaluation surveys, which included detailed field inspection of existing facilities, smoke and dye testing, flow monitoring, line videos, and hydraulic modeling. Preliminary engineering services also included the planning of proposed improvements, feasibility studies, and assistance in obtaining funding. Final design of accepted alternatives, bid package preparation, construction management and inspection services, and as-built drawing preparation were also part of this project.

**Town Of Flemington Sewer System, Town of Flemington, Taylor County, WV***
Steve was responsible for the preparation of the preliminary engineering report, funding applications, overall design, bidding documents with technical specifications, bidding procedures, construction engineering, and budget control for a sanitary sewer collection and treatment system. The project consisted of nearly six miles of gravity and pressure collections lines. The project also included the design and construction of four sewage lift stations and a 50,000-GPD extended aeration wastewater treatment plant. Other responsibilities included the acquiring of a wasteload allocation, West Virginia Public Service Commission certificate, West Virginia Division of Environmental Protection National Pollutant Discharge Elimination System permit, West Virginia Division of Highways permit and all other permits necessary for construction.

**Town of Farmington Wastewater Improvements, Town of Farmington, Farmington, WV***
Steve performed inflow and infiltration investigation by means of visual inspection, smoke testing, dye testing, and television video. Steve was also responsible for overall design of improvements, bidding documents with technical specifications, bidding procedures, construction engineering, and budget control. Steve provided construction management duties during the construction phase of improvements that included the construction of a 125,000-GPD oxidation ditch wastewater treatment plant.

**Water System Improvements Phase II, City of Shinnston, Shinnston, WV***
Steve was the Project Manager for the preliminary and final engineering design services for the replacement of approximately 11 miles of existing 10" cast iron water line with new 12" PVC water line from the City's water treatment facility to the connection point in the City limits. Preliminary engineering services included the planning of proposed line replacement improvements, feasibility

studies, and assistance in obtaining project funding. Final design included the line replacement, the design of a Johnson Screen at the raw water intake, and bid package preparation.

**Stonewood Water System Improvements, City of Stonewood, Stonewood, WV***
Steve was the Project Manager for conducting a water loss study for the City of Stonewood that identified that the unaccounted water loss ranged on average from 15 to 30 percent. The water loss study included the review of the existing system data, acoustical testing, correlation testing, pressure evaluations, evaluation of break reports and review of the billing records. Steve also provided oversight of design for the proposed improvements. The project was designed for the replacement of the 50 year old existing water distribution system throughout the City of Stonewood's residential communities. The construction was completed in 2015.

**Jane Lew Water System Improvements, Jane Lew PSD, Lewis County, WV***
Steve was the Project Manager for the design and construction of approximately 11,500 LF of two-inch galvanized waterline including valves, the removal and replacement of 25 existing gate valves, the installation of 17 new gate valves in the existing distribution system, and installation of 13 bypass meters. The project also included the installation of an eight-inch diameter river crossing pipe to replace an existing crossing, the installation of a supervisory control and data acquisition (SCADA) controlled solenoid valve station and booster chlorination station. Additionally, the project included the extension of 1,500 LF of two-inch polyvinyl chloride water line and a 37 GPM booster pump station to provide service to six new customers and included the fencing of the existing 100,000 gallon water storage tank for security purposes.

**Fairmont-Mannington Water Main, City of Fairmont, Marion County, WV***
Steve was the Project Manager for the planning, design, and construction inspection of a 13-mile water main extension from the City of Fairmont to serve the City of Mannington. The project included mapping, route surveys utilizing GPS, assistance in obtaining project funding, design of the 13-mile, 12-inch, and 16-inch water main, preparation of specifications, bid and contract documents, right-of-way acquisition, construction surveys, and construction management and inspection services.

**Alpine Lake Water System Improvements, ALPUC, Preston County, WV***
Steve was the project engineer for the preliminary design, detailed design, and construction services for a water system improvement project. Improvements to the water system included the design of four booster pump station upgrades, distribution line replacement, and storage tank improvements. The project also included the planning and design of two new source wells and the design and construction of a new potable water treatment facility.
** Work performed prior to joining CEC*

**PROFESSIONAL AFFILIATIONS**

Fairmont State University Technology Advisory Board

West Virginia Rural Water Association

American Society of Highway Engineers

# Dennis E. Miller, P.S.

## Vice President and Bridgeport Office Lead

### 33 YEARS OF EXPERIENCE

### EDUCATION

A.S., Surveying, Glenville State College, 1989

### EXPERTISE

Project / Program Management

Geodetic Control Networks

Airport Obstruction Surveying

Airport Surveying

Transportation & Bridge Surveying

### REGISTRATIONS

Professional Surveyor

- WV [redacted]
- SC [redacted]

### CERTIFICATIONS

Notary Public, West Virginia

Adult First Aid with CPR/AED/BBP, MEDIC First Aid

USACOE Construction Quality Management for Contractors, US ARMY Corps of Engineers

10-Hour OSHA Construction Safety (Occupational Safety & Health Administration), OSHA

30-hour Construction Safety & Health, OSHA

Approved Person - Surface Mine/Quarry Permit Applications, West Virginia Department of Environmental Protection Mines and Minerals

Mr. Miller has over 32 years of consulting experience and serves as the Office Lead/ Vice President of the Bridgeport, WV office. He is responsible for overseeing daily operations, promoting a safe working environment, staff development and office development, project management and client development.

Of the 32 years of experience 24 have been spent working on transportation projects, bridges, roads and airports. Mr. Miller has been the principal in charge and surveyor in charge of several large transportation projects including the Nationwide Airport Obstruction Survey Contract, Mr. Miller was the program coordinator, principal and lead field surveyor in charge, responsible for the overall program development for nationwide WAAS surveying. Mr. Miller performed all field surveying associated and described in AC 150 5300 16A, 17B & 18B including PACS & SACS reestablishment, photo control, runway end, runway centerline, NAVAIDS surveying, UDDF submission on over 16 airports from Morgantown West Virginia to Victoria Texas, the airports covered six different states.

Mr. Miller is responsible for professional development and staff mentoring. He is in constant communication with clients, project managers and key technical staff, providing the guidance necessary to ensure that every project is completed with professionalism and efficiency. Mr. Miller has worked on both private and public sectors and has noteworthy experience in the policies and procedures within WVDEP, WVDOT, FHWA, FAA.

### PROJECT EXPERIENCE

**Charleston Newspaper Parking Garage, Kanawha County, WV**

This project involved construction of a five-story parking garage located on a restricted lot in Charleston, West Virginia. Mr. Miller was responsible for layout computations and design and implementation of a foundation drainage system that required City approval prior to construction.

**West Virginia Department of Environmental Protection**

Mr. Miller was the Program Coordinator for the planning, development and implementation of the work plan to successfully survey & map abandoned mine sites in West Virginia. This project included the aerial photography / aerial mapping, by both film and LiDAR, geodetic ground control which included over one-hundred-twenty observation points, photo control points, ground surveying and mapping and quality control. The final mapping was used by various design consultants for the abatement of abandoned mine sites throughout West Virginia.

**West Virginia Department of Transportation (Independent Payment Verification)**

Mr. Miller was the Program Coordinator/Project Manager and served as a field crew member for the past five years on the independent payment verification for the King Coal highway Red Jacket Section. He was responsible for the Independent Payment Verification Reconciliation Report as required by WVDOT and the FHA on 11.37 miles of four lane divided highway which is an

active coal mining & construction site. Mr. Miller organized a team of professionals and developed a strategy for the project. The first year the team collected over 23,000 points of conventional & GPS survey data in four days and the second year over 27,000 points of conventional & GPS data was collected in four days. This project is the first FHA sponsored project that the post mining land use from the coal mining activity is a four lane divided highway; this is a public private partnership.

**Project Impact Randolph Tucker Partnership**
Mr. Miller was the office manager and served as project manager on the planning, development and implementation of the work plan to successfully install and blue book sixty-five (65) new USGS bench mark monuments within Randolph and Tucker Counties in West Virginia. This project was completed in forty-five (45) days to comply with the funding mechanism and involved three offices and over fifteen employees.

**Source Water Assessment Program**
Mr. Miller was responsible for the overall project management of the Source Water Assessment and Protection Program (SWAP). The purpose of the project was to complete source water assessments and protection plans for fifteen (15) communities in West Virginia, public water supply systems utilizing surface waters to determine past and present possible contaminates. Mr. Miller managed the inventory of all field and researched data including, agency database research, windshield surveys data, field & office GIS & GPS data collection on each site and sub-site, chemical & biological water quality monitoring results for each site, and the development of the Arc View Access data management tool, and final report compilation. Responsibilities included data collection (which consisted of visiting several sites throughout West Virginia to GPS possible source water contaminants within a pre-determined zone of critical concern), compiling information from various water treatment plants throughout the state, report compilation and assistance with the development of GIS mapping.

**Charleston Newspaper Parking Garage Design Build**
Mr. Miller was the Principal in Charge and overall civil/surveying project manager and civil/survey point of contact for the Design Build of the 340 space parking garage. The design build team had to be able to overcome the physical limitation of the site and maintain the budgetary requirements. The 4-story above ground and 1-story below grade parking garage presented several design and construction challenges for the civil/survey group. The City of Charleston stormwater management required that stormwater discharge into the existing system a six inch or smaller pipe. The design required an eighteen inch pipe. The civil group developed stormwater storage throughout the system and achieved the desired discharge without additional cost to the client. Mr. Miller was able to meet the design and construction schedule on budget while meeting the city of Charleston's storm water collection requirements. The overall success of this design build project was having strong communication and coordination between all the stakeholders associated with this project.

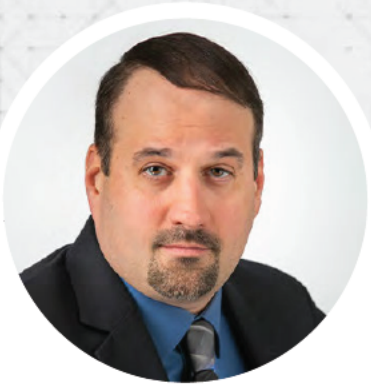
**West Virginia Health Right**
Mr. Miller was the Principal-in-Charge and overall civil/surveying project manager and civil/survey point of contact for the Design Build of the 14,000 SF Health Right clinic. West Virginia Health Right treats around 135 patients per day and is a free clinic; they needed a new facility and had limited funding. This was a very unique project, the contractor offered to perform services at cost without profit, and when we were ask to participate we agreed to do the same. Mr. Miller organized a team of civil and survey staff to complete the project in a short timeline with minimal cost to the client resulting in a successful design build project.
** Work performed prior to joining CEC*

**PROFESSIONAL AFFILIATIONS**

Ohio Oil & Gas Association

Contractors Association of West Virginia

# Matthew Fluharty, P.E.
Principal



## 21 YEARS OF EXPERIENCE

### EDUCATION

B.S., Civil Engineering, West Virginia University, 2000

### EXPERTISE

Water Hydraulics

Pumps

Hydraulic Modeling

Wastewater and Water Treatment

### REGISTRATIONS

Professional Engineer

- WV [redacted]
- PA [redacted]
- MD [redacted]
- OH [redacted]

Mr. Fluharty has 21 years of experience in the engineering and consulting industry servicing private commercial and industrial, Oil and Gas, and government sectors. His project practice focus includes design and engineering of fluid hydraulics, hydraulic modeling and treatment systems, Mr. Fluharty's engineering experience includes: detailed engineering including water pipelines and pumping stations, water storage tanks, plant layouts, equipment sizing and selection, hydraulics analysis; plans and specifications for bidding and construction; engineering cost estimating including project control-level budgeting and life-cycle costs; bidding and procurement; project planning and permitting. He has worked with a variety of projects including: wastewater, raw water, produced water, and brine water.

### PROJECT EXPERIENCE

#### Public Utilities - Water and Wastewater

**Wastewater System Upgrade Project, West Virginia DNR - Blackwater Falls State Park, Blackwater Falls State Park**
**Role**: Project Manager
Served as Project Manager for this project. Project consisted of replacement of approximately 2,000 LF of an existing a sanity sewer gravity pipe, a new grinder pump station and forcemain, and making improvements to the existing wastewater treatment plant to extend the useful life of the treatment plant. Prepared plans and detailed specifications, assisted with bidding and construction support.

**Wastewater Treatment Plant Upgrade Project, West Virginia DNR - Tygart Lake State Park, Tygart Lake State Park**
**Role**: Project Manager
Served as Project Manager for this wastewater treatment plant upgrade project. This project involved the replacement of (2) existing package treatment plants, an 8,000 GPD and 20,000 GPD with new package treatment plants with the latest treatment technologies. In addition, this project involved the replacement of (2) existing grinder pump stations with new modern grinder pumps and with new controls. Provided detailed plans and specifications assistance with bidding, and construction support/

**Wastewater Collection and Treatment Plant Repairs, Town of Harman, Harman, West Virginia**
**Role**: Principal
Served as the project Principal Engineer and oversaw the detailed design plans and specifications, project permitting, bidding, and construction support. . This project involved the improvements and repairs to the existing wastewater system collection system and treatment plant due to flooding in June of 2019. The collection system improvements involved the replacement of 2,500 LF of 8" gravity sewer with new PVC and Ductile Iron sewer pipe, new manholes, customer reconnections, and by-pass pumping. Improvements to the existing 50,000 GPD Aqua-Aerobics CAM-D SBR Wastewater Treatment Plant consisted of the following: repairs to the influent pump station, mechanical bar screen, UV disinfection system, Aqua-Aerobics CAM-D unit, SBR Control Panel package, removal and replacement of basin pumps, valves, actuators, and electrical components.

# Matthew Fluharty, P.E.
## Principal

**Wastewater Collection I&I Study, Whitehall Public Service District, Town of White Hall, West Virginia**
**Role**: Project Manager
Served as Project Manager to oversee Infiltration and Inflow (I&I) investigation of the current wastewater collection system. CEC services included smoke testing, dye testing, flow metering, and sewer camera inspection. The purpose of this project is to locate areas where I&I in entering into the collection system and to develop an plan to eliminate the I&I coming into the system.

**Water Distribution and Water Treatment Improvements, Town of Coalton, Coalton, West Virginia**
**Role**: Project Manager
Served as Project Manager for this project. I over saw the funding, design, permitting, bidding, and construction for this project. This project will involve the replacement of the existing potable water distribution system with 6", 4" and 2" water lines, refurbishing the existing 100,000-gallon water storage tank, replacing the existing 100 GPM water treatment plant and the installation on new meter pits with new meters.

**Wastewater Collection I&I Study, Morgantown Utility Board (MUB), Morgantown, West Virginia**
**Role**: Principal
Served as Principal Engineer for performing wastewater flow monitoring for MUB on their collection system to understand where the problematic areas where Inflow and Infiltration (I&I) is coming from. The project scope was to install 55 Hach flow meters in various locations to capture data for 6 months. This date will then be used to calibrate a hydraulic model of the collection system so that future improvements can be determined.

**Charles Point Water System, Bridgeport Utility Board, Bridgeport Harrison, WV***
**Role**: Project Engineer
Water system extension for proposed new development of Charles Pointe and the new United Hospital Center. Project involved the construction of 16" and 12" water line distribution system, two 500,000 gallon water storage tanks, 700 GPM booster pump station, and telemetering system.

**Emergency Water System Extension, Town of Tunnelton, Tunnelton, WV***
**Role**: Project Manager
Served as Project Manager and Design Engineer for the emergency water line extension project to supply water to the Town of Tunnelton when their existing water wells went dry. Project included approximately 8 miles of water line, (2) 150 GPM booster pump stations, 100,000 gallon water storage tanks, solenoid controlled pressure reducing valve station, and telemetering system.

**Water Distribution and Water Treatment Support, Clarksburg Water Board, Clarksburg Harrison, WV***
**Role**: Project Manger
Severed as General Engineer for the Clarksburg Water Board on various projects and tasks. Related projects, Perry Hollow water line extension, Cedar Heights water system improvements, water storage tank rehabilitation, Chestnut Street water line replacement, Farland Avenue River Crossing, VA Park river crossing, Upgrades to electrical generator for 20 MGD water treatment plant, replacement of 8,000 water meters with automatic read.

**Freemansburg Water Line Extension Project, Lewis County Commission and Lewis County EDA, Lewis County, WV***
**Role**: Project Manger
Project involved a new 100,000 gallon welded steel water tank and a 100 GPM package water booster pump station, with telemetering.

**Hodgesville Water Line Extension Project, Hodgesville Public Service District, Upshur County, WV***
**Role**: Project Engineer
Water distribution extension involving approximately 30 miles of water line to serve 250 new customers. Project involved a new 240,000 gallon welded steel water tank and a 250 GPM package water booster pump station and telemetering system.

**Masontown 0.5 MGD SBR Wastewater Treatment Plant, Town of Masontown, Masontown Preston, WV***
**Role**: Project Manager

# Matthew Fluharty, P.E.
## Principal

Responsible for the project funding, design, permitting, and construction for a 0.5 MGD SBR Wastewater Treatment Plant to replace an existing outdated 0.2 MGD BioLac treatment plant.

**Southern Lewis County Water Line Extension Project, Lewis County Commission and Lewis County EDA, Lewis County, WV***
**Role**: Project Manager
Water line extension project involving approximately 42 miles of water line to serve 400 new customers. Project involved two (2) new 100,000 gallon glass-lined bolted steel water tanks and a 200 GPM booster pump station. Project provided water service along Georgetown Road to US RT 119 and served the communities of Walkersville, Ireland, Duffy, and Vandalia.

**State Route 5 Water Line Extension Project, Gilmer County Public Service District, Glenville Gilmer, WV***
Water line extension project to extend water service throughout Gilmer County. Project involved the construction of 19 miles of water line to serve 115 new customers.

**Wastewater Collection System Improvement, Extension, and WWTP Improvments, City of Kingwood, Kingwood Preston, WV***
**Role**: Project Manager
Served as Project Manager for a $16 million dollar project that included 1.3 MGD wastewater treatment plant upgrades, wastewater collection system replacement and extensions, and new wastewater pumping stations. Was responsible for the project funding, design, permitting, and construction.

**1.2M Gallon Water Storage Tank Replacement, Kingwood Water Works, Kingwood, WV***
**Role**: Project Manager
Project involves the replacement of an existing water storage tank with a new 1,200,000 gallon water storage tank and valve vault, and a new 100 GPM constant pressure booster station.

**Water Line Extension Project, Masontown Water Works, Masontown WV***
**Role**: Project Manager
Water line extension project involving 15 miles of water line to extend to 90 new customers. Project also involved adding additional 250,000 gallon water storage tank, 200 GPM booster pump station, solenoid operated pressure reducing valve station, and telemetering system.

**Water Line Replacement Project, City of Bridgeport, Bridgeport WV**
**Role**: Design Engineer
Served as the design engineer for the water line replacement project. Project involved the replacement of approximately 6,000 linear feet of water line, installation of new main line valves, fire hydrants, meter setting, and service tubing. Additionally, this project involved the necessary permits, detailed specifications and contract documents, bidding, and construction support.

**Water Treatment Plant Upgrades, City of Parsons, Parsons, WV***
**Role**: Project Engineer
This project involved the replacement of the existing clearwell with a new 500,000 gallon glass lined water storage tank, new backwash pump station, new filter to waste piping, and new plant water pump supply system.

**Wastewater System Improvements , Town of Paw Paw, Paw Paw, West Virginia***
**Role**: Project Manager
Wastewater System Improvements
* *Work performed prior to joining CEC*

**PROFESSIONAL AFFILIATIONS**

American Water Works Association

American Society of Civil Engineers

# Robert T. Johnson, P.E.
Principal

## 33 YEARS OF EXPERIENCE

### EDUCATION

B.S., Civil Engineering, Tennessee Technological University, 1988

### REGISTRATIONS

Professional Engineer

- TN
- AL
- TX
- OH
- PA
- SC
- NC
- VA
- IN
- MI
- GA
- WV
- KY
- AZ
- RI

Robert Johnson, PE has more than 33 years of civil and structural engineering experience. His experience encompasses site development for residential, commercial, and industrial projects; structural design of retaining structures, pre-engineered structure foundations (e.g., buildings and bridges), and utility structures; structural assessments and repair/remodeling; and building design. At CEC, Mr. Johnson coordinates structural engineering projects with all CEC offices and provides project management and oversight for these projects.

### PROJECT EXPERIENCE

**Building 48 Creekside Roadway Rehabilitation, Jeannette, PA**
Designed concrete retaining walls to stabilize a roadway and parking area along an existing stream. Approximately 250 linear feet of wall were required for the project. Walls were approximately 8′ tall.

**ORNL Biomass Generator Demolition, LATA/Sharp, Oak Ridge Anderson, TN**
Provided structural engineering support to contractors to provide a partial demolition of the biomass generator at ORNL. Support included coordination with the contractor and lead operators to develop plans for demolition within a very crowded existing plant to ensure no disturbance to the existing structures, piping, and equipment occurred. Provided general structural engineering support to design temporary structures, evaluate structures being partially demolished, design miscellaneous structural elements (e.g., pipe supports), and evaluate designed elements that required modification during construction (e.g., mezzanines, ladders, equipment pads, etc.)

**Pigeon Forge Boys and Girls Club, Pigeon Forge, TN**
Design of concrete foundation and floor slab design for approximately 10,000 sf building.

**The Ridge at Robinson, Robinson Township, PA**
Designed concrete head wall and end wall for storm water conveyance under a proposed roadway. Walls were up to 14′ in height.

**The Summit on Bluff Mountain, Sevier County, TN**
Designed bridge abutments for road bridge to span approximately 80′ above Compton Branch and the associated ravine. The abutments were constructed of cast-in-place concrete and were located along the flow path of Dunn's Creek.

**Wexford Plaza Site Development, Kimco Realty Corporation, Wexford, PA**
Provided structural engineering services to design landscape features such as retaining walls and free-standing divider walls.

**Bicentennial Trail - Structural Assessment, Town of Ashland City, Ashland City, TN**
**Role**: Structural Engineer
Provided structural engineering services to assess the condition of six timber railroad bridges that had been converted to greenway usage. CEC prepared an assessment report addressing the observed condition and capacity of the bridges and recommendations for improvements and maintenance.

# Robert T. Johnson, P.E.
## Principal

**Holiday Inn Pigeon Forge, Jai Chehar Ma, LLC, 2905 Parkway; Pigeon Forge, TN**
**Role**: Structural Engineer
Provided structural engineering design services for the abutments to support a pedestrian bridge over the West Prong of the Little Pigeon River. The bridge has a span of over 175'. CEC coordinated with the bridge manufacturer and contractor. CEC also provided structural engineering design for ADA access ramps from the abutments to the adjacent pedestrian walkways.

**Anakeesta Villiage, Silverbell Investments, LLC, Gatlinburg Sevier, TN, US**
Provided design and construction support for flood walls along boundary between the Anakeesta Village property and US Highway 441. The design included creating ADA compliant pedestrian access to the site and coordination with the City of Gatlinburg to improve the existing, adjacent sidewalks to include ramp access to the property. Flood walls were required to allow development of the site within the flood plain of Baskin Creek. Over 600 linear feet of flood wall was required for the site. Developed abutment designs for proposed pedestrian bridge. Abutment design had to be coordinated with the City of Gatlinburg as it required tying into existing sidewalk and storm drainage structures on City property. The project also included design of traffic signal and light pole foundations in areas with significant restrictions due to congested underground utilities.

**Bridge Abutments, Foxfire Mountain Adventure Park, Sevierville, Sevier County, TN**
Designed bridge abutments and approach bridge structures for a pre-engineered bridge to facilitate on-site traffic for the Foxfire Mountain Adventure park. The abutments were constructed of cast-in-place concrete and were located along the flow path of Dunn's Creek. The Client-purchased pre-engineered bridge was too short to adequately span the stream to prevent placement of abutments in the floodway. The designed abutments included design of approach bridging structures, cantilevered past the abutments to provide support to the pre-engineered bridge without affecting the flow characteristics of the stream.

**Civil/Structural Design, Bluegreen's Mountain Loft Resort, Gatlinburg, TN**
As a Civil/Structural Engineer, provided foundation and retaining wall design, structural framing design, construction support/administration, civil/site design, utility design and client/project management for the demolition/reconstruction of structural steel/concrete pedestrian walkways.

**Foxfire Mountain Cider Mill, Foxfire Mountain Adventures, Sevierville Sevier, TN**
Provided structural engineering design for the Cider Mill at Foxfire Mountain Adventures attraction in Sevier County, TN. The building houses the cider mill, a tasting venue, retail space, and offices. Design included masonry retaining basement walls, concrete foundations and ground slabs, and timber framing.

**Laurel Crest Resort Structural, Bluegreen Resorts, Pigeon Forge Sevier, TN**
Provided structural assessment services for the Laurel Crest Resort in Pigeon Forge, TN. Assessments covered building foundations, ADA accessible stairs and ramps, and decks. Provided design of replacement timber stairs and decks, compliant with current building codes and ADA accessibility requirements. Work included support to Bluegreen staff for construction administration, including resolving contractor requests for information, field change reviews, and site observations. Provided a building envelope assessment for all buildings in the resort.

**Mountain Loft Structural Engineering Support, Bluegreen Resorts, gatlinburg Sevier, TN**
Provided structural assessment services for the Mountain Loft Resort in Gatlinburg, TN. Assessments covered building foundations, ADA accessible stairs and ramps, decks, and building framing. Provided design of replacement timber stairs and decks, compliant with current building codes and ADA accessibility requirements. Work included support to Bluegreen staff for construction administration, including resolving contractor requests for information, field change reviews, and site observations.

**Smoky Mountain Alpine Coaster - Canopy, Smoky Mountain Alpine Coaster, Pigeon Forge Sevier, TN**
Provided design of structural steel canopy for the observation deck and ticketing area at the Smoky Mountain Alpine Coaster attraction in Pigeon Forge, TN. Since the canopy was being added to an existing facility, the design required close coordination with the contractor to address non-recorded subgrade utilities and structures, often during the construction effort.

**Structural Engineering, Dollywood and Splash Country Theme Parks, Pigeon Forge, TN**
Provided various structural engineering tasks for the Dollywood and Dollywood Splash Country theme parks. Tasks have included design of timber deck areas and pedestrian walkways, evaluation of code compliance issues during construction, structural

assessment of existing structures, and evaluation of structural damage to existing structures with recommendations for repair. Due to the nature of this Client, often work is done under extremely tight schedules in order to minimize down-time of attractions.

**Structural Engineering Services, SRA Architects, Pigeon Forge Sevier County, TN**
Provide structural engineering support to SRA Architects for various projects. Designs have included foundations, framing, and remodeling/retrofit.

**Structural Engineering Support, Various, TN**
Provides structural engineering support to several contractors in the Sevier County area (i.e., MCW Construction, Fisher Custom Builders, Blazer Construction, and Smoky Top Construction). Support is on an on-call basis and varies widely. Much of the support includes developing construction drawings for residential and commercial projects. These projects have included foundation and framing design, retaining structure design, and retrofit design. Work also includes developing engineered solutions to differing site conditions. This design is often performed under extreme schedule conditions to provide timely assistance to the contractors.

**Structural Engineering Support, Progression Electric, Gatlinburg, TN**
Providing on-going structural engineering support to contractor for design of foundations related to traffic control structures. Work to date has included foundation designs for traffic signal poles and light poles where the standard DOT foundation designs cannot be used due to site restrictions.

**Nottingham Way Structural Assessment, Stephen Craig Coates, Pigeon Forge Sevier, TN**
Provided structural assessment of existing foundations for a rental cabin.

**Commercial Building, Confidential Client, Pigeon Forge, TN**
Provided structural engineering services for 33,000 sf commercial building. Building was steel framed with light-gage steel and masonry components. Design included modeling of the structural elements, including walls, columns, beams, bar joists, and foundations. Project required close coordination with Project Architect and contractor. Construction support included processing requests-for-information and field change requests from the Contractor, review of shop drawings, and construction observation.

**Commercial Building - 3189 Parkway, Andy Morton Architect, Pigeon Forge, TN**
Structural engineering design for a 14,000 sf commercial shopping center. Design included concrete, masonry, and steel design. Construction support was provided in the form of shop drawing reviews, response to contractor RFI's, site visits to review field changes, and coordination with the local building official and inspector.

**Dollar General Foundation Revision, The Broadway Group, Morristown Hamilton, TN**
Provided an alternative foundation design for the construction contractor after their discovery of differing site conditions for a proposed Dollar General Store in Morristown, TN. Poor soils were discovered during the course of site development construction and the provided strip footing designs for the store would not work for the poor soils. Coordinated design with the acting Geotechnical Engineer and developed a mat foundation design for the building. The work was performed under an extreme schedule in order to meet the store opening required under the contractor's contract terms with the Owner.

**Ole Ben Franklin Motors, Andy Morton Architect, Alcoa Blount, TN**
Provided structural design for a new used-car showroom and sales facility for Ole Ben Franklin Motors in Alco, TN. Design included concrete, masonry, and steel construction. Services included construction support in the form of shop drawing reviews, response to contractor RFI's, and evaluation of contractor-requested field changes.

# Greg S. Linder, P.E.
Principal

## REGISTRATIONS

Professional Engineer
- WV [redacted]

## 23 YEARS OF EXPERIENCE

## EDUCATION

B.S., Biology, Fairmont State College, 1993

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

Mr. Linder's project experience has included the design, inspection, evaluation, and rehabilitation of highway and railroad bridges; secondary responsibilities have included all aspects of roadway design, hydrologic and hydraulic analyses, civil/site engineering, and permitting.

Mr. Linder has been involved with the engineering design and/or inspection of numerous bridges, including highway, railway, and pedestrian bridges. He has designed bridge structures for large, governmental clients, as well as smaller governmental units and private sector organizations. Several of these projects have been "high profile" projects, allowing Mr. Linder the experience of working under intense public scrutiny. In addition to bridge design, Mr. Linder has been involved with roadway design, floodplain evaluation projects, streambank protection projects, site development projects, and environmental projects.

## PROJECT EXPERIENCE

### Holiday Inn Express, Lewis County, WV
Project Manager responsible for oversight of the project team that designed and produced the site grading plan, paving plan, stormwater management and erosion & sediment control plans for this commercial development site in Weston, WV. Proposed businesses are Holiday Inn Express.

### Microtel, Upshur County, WV
Project Manager responsible for oversight of the project team that designed and produced the site grading plan, paving plan, stormwater management and erosion & sediment control plans for this commercial development site in Buckhannon, WV. Proposed businesses are Microtel.

### Deegan Lake Dam Rehabilitation and Hinkle Lake Dam Breech, Environmental Assessment, Bridgeport, WV
Staff Engineer providing environmental services for the completion of the environmental clearance for the rehabilitation of Deegan Lake Dam and the breeching of Hinkle Lake Dam.

### Trans-Allegheny Interstate Line (TRAIL-CO), Northern West Virginia*
Project Manager responsible for oversight of the design and preparation of nearly 140 Driveway Encroachment Permits for access roads onto West Virginia Division of Highways Right of Way to support the construction of the major transmission line. In addition, Mr. Linder was responsible for the oversight, design, and plan preparation of approximately five miles of access roads.

### US Route 35, Mason County, WV*
Project manager responsible for oversight, design, and plan preparation for structures carrying US Route 35 over Threemile Creek and Twomile Creek near Point Pleasant, WV. The Threemile Creek bridge consists 414.5' dual plate girder structures that are both 44.5' wide. The bridge substructure consists of integral abutments and cap and column piers supported on pile foundations. . The Twomile Creek bridge consists 106.75' dual plate girder structures that are both 44.5' wide. The bridge substructure consists of integral abutments.

# Greg S. Linder, P.E.
## Principal

**Mile Branch Truss Bridge, McDowell County, WV**
Project manager responsible for oversight, design, and plan preparation for the 180-foot, 22-foot wide steel bridge crossing the Dry Fork River. The bridge substructure consists of integral abutments and T-Type piers supported on caisson foundations. The project also involved 370' of new two-lane roadway design.

**Upper Tract Bridge, Pocahontas County, WV**
Project manager responsible for oversight, design, and plan preparation for the 346-foot long, 30-foot wide curved steel bridge crossing the South Branch of the Potomac River. The bridge substructure consists of integral abutments and T-Type piers supported on caisson foundations. The project also involved 740' of new two-lane roadway design.

**Star City Bridge (WV Route 7) Over the Monongahela River, Monongalia County, WV***
Assistant Investigator responsible for preparing a confidential report outlining the conditions that led to a visibly out-of-plane distortion in the steel girder system at the completion of erection.

**U.S. Route 35, Mason County, WV***
Project Manager responsible for oversight, design, and plan preparation for the 1.85 mile section of four-lane divided highway. The section of highway also includes dual 414.5' bridges over Three Mile Creek and dual 106.75' bridges over Two Mile Creek. In addition, the project includes 0.62 miles of side road relocation, a reinforced concrete box culvert carrying an access road over Twomile Creek, waterline relocation plans, and natural stream design.

**Appalachian Corridor H, Davis to Bismark, Tucker and Grant Counties, WV***
Project Manager responsible for oversight, design, and plan preparation for the 1.61 mile section of four-lane divided highway near Davis, WV.

**Weatherford Industrial Access Road, Upshur County, WV***
Project Manager responsible for oversight, design, and plan preparation for the 0.56 mile industrial access road in Buckhannon, WV.

**Enterprise/I-79 Connector, U.S. Route 19 to I-79, Environmental Assessment, Marion County, WV**
Staff Engineer responsible for the coordination of environmental and engineering services associated with the preparation of the NEPA document. Environmental services included data collection, field reconnaissance, and assessment of the environmental features encountered within the project area. The environmental features were delineated using 200:1 scale mapping. Engineering services included the development and evaluation of three alternative alignments that were approximately three miles long using environmental features mapping and current WVDOH design criteria. The typical section included two 12-foot lanes and two 8-foot shoulders. Plans, profiles, and preliminary construction cost estimates were prepared for each alternative alignment. The environmental assessment will contain discussion of the impacts associated with each alternative and will identify the preferred alternative.

**Enterprise/I-79 Connector, U.S. Route 19 to I-79, Biological Assessment, Marion County, WV**
Staff Engineer responsible for the field reconnaissance, literature review, and preparation of a biological assessment of the Indiana Bat. The biological assessment evaluated the potential impacts of the proposed two-lane highway on available summer habitat in the project study area. The United States Fish and Wildlife Service is expected to issue a Biological Opinion.

**Meldahls Undercut Site, Wood County, WV**
Staff Engineer responsible for providing environmental services for track rehabilitation. The existing embankment was to be removed and backfilled with engineered fill. The existing soil was sampled and tested for contaminants before disposal. Responsibilities included reviewing laboratory analyses of soil samples taken within the railroad right-of-way, documenting the findings, and providing recommendations in report format.
** Work performed prior to joining CEC*

**TRAINING**

West Virginia Division of Highways Natural Stream Design Levels I, II, III, IV

# Kow O. Eshun, P.E.
Principal

## 16 YEARS OF EXPERIENCE

### EDUCATION

B.S., Civil Engineering, Kwame Nkrumah University of Science and Technology, 2005

M.S., Geotechnical Engineering, The University of Akron, 2013

### REGISTRATIONS

Professional Engineer

- TX
- KY
- MD
- WV
- PA
- VA
- OH

### CERTIFICATIONS

Project Management Professional (PMP), Project Management Institute

10-Hour OSHA Construction Safety (Occupational Safety & Health Administration), OSHA

Construction Quality Management for Contractors, United States Army Corps of Engineers

Mr. Eshun has several years of diverse experience in Geotechnical engineering, Logistics, Transportation and Construction Quality Assurance. Mr. Eshun has worked on a wide range of subsurface investigations to provide recommendations for shallow foundations, intermediate foundations, deep foundations, retaining structures, slope stability analyses, ground improvement techniques, mine subsidence, and earthwork for both greenfield and brownfield projects. Experience also includes geohazard characterization for pipeline projects, landslide mitigation and landslide remediation.

Additionally, Mr. Eshun has managed a wide range of projects in the transportation, health, natural gas, manufacturing, telecom and utilities industries including roadway projects, well pads, compressor stations, building projects, substation construction and expansion.

### PROJECT EXPERIENCE

**Charles Point Crossing, Genesis Partners, Limited Partnership, Bridgeport, West Virginia**
**Role**: Geotechnical Design of Record
Kow was the geotechnical design manager and engineer of record for Charles Pointe Crossing which involved moving 3.5 million cubic yards of earth and rock to create 100+ acres of development sites along I-79. His responsibilities included planning, managing the geotechnical investigations and design for the project.

**Bridgeport Indoor Sports & Recreation Complex, City of Bridgeport, Bridgeport, West Virginia**
**Role**: Geotechnical Engineer on Record
This project involved the design for a 125 acre indoor/outdoor sports and recreation complex. Mr. Eshun was responsible for managing this project from geotechnical engineering and construction management/administration. His responsibilities included planning, managing the geotechnical investigations and design for the project.

**Charleston Interstate Roadway Lighting Renovation, WVDOH, Charleston Kanawha, WV***
Overall project manager for the geotechnical exploration and design of foundations for the high mast lighting poles for the I-64 in Charleston. Kow managed a 4-week drilling schedule on a busy interstate road working night shift to minimize the interruption to traffic. Project involved the design of over 25 drilled caissons. Managed and coordinated the structural design of the caissons with our subcontractor (Michael Baker Jr., Inc.)

**Meathouse Fork Bridge, Thrasher Engineering, New Milton Doddridge County, WV***
Managed and coordinated the subsurface exploration, laboratory testing and geotechnical analyses. Prepared both preliminary and final recommendations concerning earthwork and the design and construction of foundations for the proposed bridge

# Kow O. Eshun, P.E.
## Principal

**Mingo County Regional Airport, Chapman Technical Group, Williamson Mingo, WV***
The project involved the construction of airport on a post mine land. Mr. Eshun coordinated and managed the soil improvement aspect of the site for the hangar and fuel farm. The improvement technique for the project was deep dynamic compaction. Managed field work and also the post improvement testing for the site.

**Tabler Station Connector Roadway, WVDOH, Martinsburg Berkeley, WV***
Managed and coordinated the subsurface exploration, laboratory testing and geotechnical analyses for the proposed roadway. Prepared both preliminary and final recommendations for earthwork, construction, karst treatment and cut/fill slope stability and construction for the proposed roadway

**WVDOH Thomas Buford Pugh Bridge, Orders Construction Company, Prince Fayette, WV***
Project involved the replacement of the existing bridge with a new one. Managed the drilling and laboratory testing services for the preinstallation borings. Information from the borings was used to provide design recommendations for the caissons for the foundations

**CAMC General Family Practice Building, Charleston Kanawha, WV***
Managed and coordinated the subsurface exploration, laboratory testing and geotechnical analyses. Prepared geotechnical recommendations for earthwork, foundation design (deep foundations) and construction for the proposed building extension

**East Building Addition, United Hospital Center, Bridgeport, West Virginia**
**Role**: Geotechnical Engineer on Record
The project consists of the planned addition to a building currently located on Medical Park Dr. in Bridgeport, West Virginia. The addition of 4 floor horizontal expansion with an option of additional 2 or 3 floors later. Lead and managed the geotechnical team to perform geotechnical investigations, laboratory testing, analyses and provided recommendations for foundations. Also coordination with Architects during plan preparation and review foundation testing reports for conformations for geotechnical reports.

**Electrical Upgrade Phase II, Louis A. Johnson VA Medical Center, Clarksburg Harrison, WV**
The project involved the construction of an addition to an existing building at the hospital. Managed the geotechnical investigations at the site of the proposed upgrade. Prepared geotechnical engineering report providing deep foundation recommendations for the proposed addition. Also provided recommendations for site earthwork.

**Tiered Parking Lot, United Hospital Center, Bridgeport, West Virginia**
**Role**: Geotechnical Engineer on Record
CEC has ben retained as the geotechnical engineer on record to perform a geotechnical investigations for a proposed parking lot and provide recommendations for pavements and retaining walls. Currently working on planning and coordinating the field investigation program

**UHC East Addition Caisson Installation, Landau Building Company, Bridgeport, West Virginia**
**Role**: Project Manager
Managed and provided caisson drilling and installation observations for the building addition at the hospital. Observations was performed with a professional engineer to ensure that caissons were drilled at the right location and with the required embedment in competent bedrock. This was an extension of our services as the geotechnical engineer on record for the project

**Reserve at Rosebud, Miller-Valentine Group, Clarksburg Harrison, WV**
Managed Construction Quality Assurance (CQA) aspect of the project which consisted of construction of a residential block of flats. Services provided to contractor included testing of concrete, earthwork monitoring and testing, and general construction observations.

**Taco Bell Site 310603, Huntington Cabell, WV***
Managed and coordinated the subsurface exploration, laboratory testing, geotechnical analyses and environmental screening. Prepared both preliminary and final recommendations for earthwork, ground improvement options and foundation design recommendations for the construction of the new Taco Bell
** Work performed prior to joining CEC*

# James C. Tomiczek, P.E.

## Vice President and Knoxville Office Lead and Sevierville Office Lead

### 30 YEARS OF EXPERIENCE

### EDUCATION

M.S., Engineering Management, University of Tennessee, 1999

B.S., Civil Engineering, Virginia Polytechnic Institute & State University, 1991

### EXPERTISE

Civil/site design in mountainous terrain.

Project Master Planning.

Management of large and complex projects.

### REGISTRATIONS

Professional Engineer

- TN [redacted]

Mr. Tomiczek serves as principal advisor on projects completed by the Knoxville office to ensure high-quality service as well as overall client satisfaction. In this role, Mr. Tomiczek maintains strong relationships with clients by working to evaluate needs early in a project, track project progress and compare to scope and budget, and regularly review provided services. Prior to his current role, he worked as the project/client manager for several large developments and was responsible for the design of projects ranging in size from one acre to several hundred acres; from one unit to more than two thousand units.

Mr. Tomiczek has more than 30\ years of civil engineering experience with the majority being dedicated to site development projects. His career is highlighted by several large and complex resort and amusement property developments, the success of which has led to long-term relationships and repeat business with clients.

### PROJECT EXPERIENCE

**Westgate Smoky Mountain Resort, Westgate Resorts, Gatlinburg, TN**

**Role**: Project Principal and Primary Client Contact

Westgate Smoky Mountain Resort is a 2900 unit master planned resort adjacent to the Great Smoky Mountain National Park. CEC was chosen due to the complex nature of the high-profile project, which included master planning, all civil-related design, all survey support, and all local, state, and federal permitting. Comprehensive services, coupled with unique mountainous terrain design experience, made CEC the obvious choice for a successful resort development.

**The Island in Pigeon Forge, LeConte Village, LLC, Pigeon Forge, TN**

**Role**: Project Principal and Primary Client Contact

The Island in Pigeon Forge is a multi-use entertainment and amusement park in Pigeon Forge, Tennessee. CEC oversaw all civil engineering and survey efforts for the redevelopment of this previously failed park. Being a redevelopment project, CEC had to evaluate existing infrastructure to determine which elements should remain and which should be demolished. The project was fast-tracked due to a very aggressive development schedule, requiring CEC to have multiple staff dedicated to the project on a daily basis both in the office and at the job site.

**Rocky Top Sports World, Gatlinburg, TN**

Rocky Top Sports World is a destination sports park in Gatlinburg, Tennessee. CEC orchestrated all civil engineering and surveying related tasks and obtained all related local and state permits. The project was earthwork intensive, due to the requirement for multiple large level pads in a mountainous area.

### PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers

Tennessee Municipal League

Tennessee Society of Professional Engineers

# Jason H. Littler, P.S.

## Senior Project Manager

### 25 YEARS OF EXPERIENCE

### EDUCATION

A.S., Civil Engineering Technology, West Virginia Institute of Technology, 1995

B.S., Engineering Technology - (Survey Emphasis), West Virginia Institute of Technology, 1996

### REGISTRATIONS

Professional Surveyor

- WV [redacted]

Mr. Littler has over 24 years of experience with proven leadership skills, including managing, supervising, and motivating staff to achieve company objectives. Responsibilities have included positions as Roadway Designer and Survey Project Manager. He has performed roadway design, site civil design, drainage computations, construction layout, earthwork volumes, topographical surveys, aerial mapping control surveys, boundary surveys, WVDOH right of way plan development, courthouse research, deed work maps, survey plats, survey descriptions, earthwork volume computations, hydrology computations, WVDOH waste permits, plan preparation, subdivision plats, cell tower surveys, oil and gas landowner exhibits, pipeline as-builts, pipeline alignment sheets, pipeline routing, fine grade computations, and survey field crew management and oversight. He has been in direct charge with as many as 12 survey crews, which all reported to him and were supervised by him for direction and client satisfaction. He has been in professional charge of several boundary surveys ranging in size from small lot and partition surveys to large multi-tract 1000 acre surveys. He has performed numerous ALTA/ASCM land title surveys all throughout West Virginia for various banks, title insurance companies and development companies.

### PROJECT EXPERIENCE

**West Virginia Wesleyan College Performing Arts Center, Highpoint Construction Group, Buckhannon, WV***
Survey Project Manager responsible in charge for construction layout and oversight on this new performing arts center. Performed curbing and grading layout. Project consisted of a new building associated parking lot and entrances.

**West Virginia Wesleyan College, David E. Reemsynder Science Center, Buckhannon, WV***
Survey Project Manager responsible in charge for base mapping, utility identification, survey layout, sewer and storm layout.

**Talcott Elementary School, Raleigh County, WV***
Survey Project Manager responsible for oversight of all surveying for base mapping and construction layout. Project consisted of a expanded parking lot and entrance layout

**Sun Mountain Resort, Mount Hope, WV***
This project consisted of the development of approximately 1,000 acres of land located on the west side of US Route 19, north of the exit to Mount Hope in Fayette County, WV. Preliminary plans for the Sun Mountain Resort included an amphitheater, hotel, Gary Player golf course, and a conference facility. Mr. Littler was responsible for all storm drainage and some of the civil design associated with the construction of the complex The construction of this project was not completed.

**Northeast Quad Development, Bridgeport, WV***
Mr. Littler was involved in performing all site design for the development of this proposed commercial site, such as producing a detailed set of plans showing all site grading and drainage structures and performing all runoff calculations and sediment pond sizing. He also submitted a National Pollution Discharge Elimination System (NPDES) permit for approval.

**Fairskies Development, Buckhannon, WV***
Mr. Littler performed a complete site design to produce the most available land use for this development. He also calculated pre and post runoff curve numbers with discharges, designed all structures accordingly, and provided mapping and placement of a relocated gas line. He also completed and submitted an NPDES permit.

# Jason H. Littler, P.S.
## Senior Project Manager

**Tygart Valley Dam, Grafton, WV***
Served as survey crew chief producing as-built surveying diagrams of piping within the dam. Surveying was conducted inside the dam for all as-built locations. Information was to be used for realignment of new pipes being replaced. Also performed original ground topography surveying for an access road leading to the base of the dam for access of equipment.

**Taylor Creek Impoundment, Widen, WV***
Mr. Littler was involved in this Abandoned Mine Land (AML) project. The project consisted of two (2) sites of which all original ground sections were produced and monthly pay volumes were submitted for approval.

**Buckhannon Readiness Center, Capitol Engineering, Buckhannon, West Virginina**
**Role**: Survey Project Manger/surveyor-in-Charge
UAV-based acquisition of LiDAR and georeferenced Photography for the existing conditions as-built mapping for an approximately 16 acre site of the Buckhannon Readiness Center. This project involved the collection of UAV Lidar mapping combined with Conventional/GPS surveying techniques. Responsibility included project management, quality control review of all survey deliverables and survey crew coordination.

**Long Haul Linear Project, Jennings Excavation, Wood, Richie, Doddridge, Harrison, Lewis, Upshur, and Randolph Counties, West Virginia.**
**Role**: Survey Project Manager, Lead Surveyor in Charge
Survey Project Manager in charge of the as-built surveying of 140 miles of 1 1/4 Inch Conduit that crossed over seven counties in West Virginia. In charge of the survey crews for collecting of the as-built information from trenching and boring activities. CEC set project control along the length of the 140 miles for as-built surveying to be performed. Managed the generation of the as-built data and all deliverables. Was an integral part of the office management quality control before final submittal to the client.

**Robinson Run Overland Conveyor Project, Harrison County, WV**
Mr. Littler served as Survey Project Manager in charge of surveying on this 4.1 mile, overland conveyor belt line being constructed for Consol Energy. This project consisted of the survey layout, volume computations, and as-built mapping of the 4.1 mile overland conveyor along with over 4 miles of access roads and over 500,000 cubic yards of excavation. Mr. Littler was responsible for the crew scheduling, reviewing of all data, final cross section data, checking of all computations.

**WVDEP Office of Abandoned Mine Lands and Reclamation Northern Mapping Services, northern counties of West Virginia***
Mr. Littler served as Survey Project Manager in charge of surveying and mapping on these individual Projects with the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands. This contract consisted of a 3 year assignment with the WVDEP and involved surveying and mapping services to be used for the design and construction of Abandoned mine lands projects located throughout the northern counties of West Virginia. Currently in the Northern contract, Mr. Littler has been in charge of the successful completion of the mapping for 40 individual projects with a total mapped acreage of 5,800 acres. Mr. Littler was responsible for the client maintenance, field visits, billing, invoicing and oversight for this three year assignment.

**WVDEP Office of Abandoned Mine Lands and Reclamation Southern Mapping Services, southern counties of West Virginia***
Mr. Littler served as Survey Project Manager in charge of surveying and mapping on these individual Projects with the West Virginia Department of Environmental Protection, Division of Land Restoration, Office of Abandoned Mine Lands. This contract consisted of a 3 year assignment with the WVDEP and involved surveying and mapping services to be used for the design and construction of Abandoned mine lands projects located throughout the southern counties of West Virginia. Currently in the southern contract, Mr. Littler has been in charge of the successful completion of the mapping for 53 individual projects with a total mapped acreage of 5,000 acres. Mr. Littler was responsible for the client maintenance, field visits, billing, invoicing and oversight for this three year assignment.
* *Work performed prior to joining CEC*

# Matthew K. Bainbridge, E.I.T.

## Project Manager III

## 17 YEARS OF EXPERIENCE

### EDUCATION

B.S., Mathematics, Fairmont State University, 2007

B.S., Civil Engineering Technology, Fairmont State University, 2012

### EXPERTISE

Advanced Geospatial Processing

LiDAR Classification and Mapping

Reality Capture Data Processing and 3D Visualization

Kinematic GNSS/IMU Post-Processing

### REGISTRATIONS

Engineer in Training
- WV [redacted]

Surveyor Intern
- WV [redacted]

Mr. Bainbridge possesses a diverse background in both Civil Engineering and Geomatics. With experience ranging from site design to advanced geospatial data processing, Mr. Bainbridge's capabilities enable him to provide a wide variety of services throughout the AEC industry. Geomatics expertise from acquisition through Topographic and/or BIM deliverables using Mobile Laser Scanning (MLS), Terrestrial Laser Scanning (TLS), and sUAS LiDAR and Photogrammetry.

### PROJECT EXPERIENCE

#### Aerial LiDAR and Mapping

**UAV LiDAR Well Pad As-Builts, EQT, Wetzel County, WV**
**Role**: Project Manager
UAV-based acquisition of LiDAR and Photography of existing well pads and production of As-Built drawing sets.

**Rum Creek Connector UAV LiDAR As-Built, WVDOH, Logan, WV**
**Role**: Project Manager
UAV-based acquisition of LiDAR and georeferenced Photography for As-Built of the 8 mile highway project prior to the grand opening in Logan, WV. Involved the collection of 2.5 billion LiDAR data points along an 8 mile highway corridor including hill cuts upwards of 700-feet in elevation relief.

**Coal Fields Expressway, WVDOH, WV**
**Role**: Project Manager
UAV-based acquisition of LiDAR and georeferenced Photography for detailed mapping of highway project under construction in Southern West Virginia for the purpose of stockpile volume calculations and pavement design. Collection of data included over 10 miles of roadway to produce detailed existing conditions mapping.

#### Building and Site Design

**Pharmacy Site and Revit Building Design, White Hall Pharmacy, White Hall Marion County, WV***
Design of Building and Site for Whitehall Pharmacy in Fairmont WV.

**Grant Avenue Site and Building Design, Rod Everly, Morgantown Monongalia County, WV***
Design of Building and Site for Grant Ave Apartment Complex in Morgantown WV

**UFCU Site and Building Design, UFCU, Morgantown Monongalia County, WV***
Design of Building and Site for two Locations of United Federal Credit Union in Morgantown WV

#### Mobile LiDAR Survey

**Route 622 Widening Survey, WVDOH, Kanawha County, WV**
**Role**: Project Manager
Mobile LiDAR and Conventional Survey for Route 622 widening project in WVDOH including boundary evidence location and topographic map preparation through the use of a vehicle-mounted LiDAR sensor and georeferenced 360-degree imagery.

# Matthew K. Bainbridge, E.I.T.
## Project Manager III

**US 441 & Casino Trail MLS, Johnson Architecture, Inc,., Cherokee, NC**
**Role**: Topographic Mapping
Mobile LiDAR acquisition and topographic map preparation of approximately 3 miles of roadway in Cherokee, NC for the purpose of streetscape and lighting upgrades.

**Pittsburgh District Energy System Route Survey, NRG Energy Center Pittsburgh, Pittsburgh, PA**
**Role**: LiDAR Manager
Mobile Laser Scan and Topographic Map Production for over 30 city blocks in Downtown Pittsburgh.

### Oil and Gas

**Oil and Gas Infrastructure Design and Permitting, Daybrook Development, Daybrook, WV***
**Role**: Project Manager
Design of Well Pads and Roads, Mapping of Oil Fields, and Permitting of existing and new drilling for shallow horizontal and vertical wells

**Marcellus Well Plats, Southwestern Energy Company, Valley Grove Ohio County, WV**
Production of well plat package with ownership for Marcellus Well 6A1 permit.

### Survey and Land Subdivision

**Potomac Valley Overlook Subdivision, North American Land, Milam Pendleton County, WV***
Survey and Subdivision of 2000+ Acres of Potomac Valley Overlook in Grant and Pendleton Counties, WV. E&S Design, Permit Drawings and NPDES Permit Applications for 9 individual phases of construction.

**Terrestrial LiDAR Survey, West Virginia University**
**Role**: Project Manager
Terrestrial Lidar scan of WV Towers for a renovation project that was built for the entire exciting facility. Created a map of the entire facility using UAV LiDAR.

**Video Processing Dominion Energy , Dominion Energy , Bridgeport West Virginia**
**Role**: Project Manager
360 video documentation of existing roadways of the 1,700 miles of the existing roadway.

**NASA IV&V LiDAR, Fairmont West Virginia**
**Role**: Project Manager
Terrestrial LiDAR scan of the entire existing facility. As well as created a recap and a view of the deliver abilities.

### Terrestrial LiDAR Survey and 3D Modeling

**Owens Corning LiDAR and Modeling, Varo Engineers, Newark Licking County, OH**
Terrestrial LiDAR acquisition of 14,000 SQ FT Furnace at the Owens Corning Fiberglass plant. LOD300 3D Model created in AutoCAD from Point Cloud, and adjusted to plant control.

**Two Lick Dam Removal, Canaan Valley Institute, Inc., Harrison County, WV**
**Role**: LiDAR Manager
Terrestrial LiDAR Acquisition and existing conditions mapping of pedestrian bridge near the Two Lick Dam site for monitoring before and after removal.

**Steelhead LiDAR, Equitrans Midstream, Waynesburg, PA**
**Role**: Project Manager
LiDAR of exposed underground assets during construction and final as-built scan of facility. Adjustment of Plant 3D model BIM 360 to reflect as-built conditions

**Marble Cliff - LiDAR Subsidance Analysis, Marble Cliff Apartments, Columbus Columbus County, OH**
Terrestrial LiDAR scan of Interior and Exterior of multiple apartment buildings that were experiencing significant subsidence. Floor elevation maps created showing the specific areas and extent of subsidence.

# Matthew K. Bainbridge, E.I.T.
## Project Manager III

**New Castle Power Plant - LiDAR As-Built, Mitsubishi Hitachi Power Systems, New Castle, PA**
Establishment of Plant Control and LiDAR As-Built scan and 3D model for Natural Gas Conversion of the power plant. Pipes and Structural Steel objects were created and delivered in Microstation DGN format at the client's request.

**Joliet Dolomite Mine - LiDAR As-Built, Q4 Impact Group, LLC, Joliet, IL**
LiDAR Scan of entire Dolomite Mine 500 foot below ground in complete darkness. Produced as-built model of conditions of 100-foot tall pillars. Cross sections of pillars delivered to client for structural analysis.

**Compressor Facility LiDAR As-Built, Eureka Hunter Pipeline, Pine Grove, WV**
Terrestrial LiDAR As-Built of 40 acre compression facility, basemap and as-built 3D model creation. Created an asset management inventory that dynamically linked to truviews in an ArcGIS Online map environment with attribute data on all valves such as detail photographs, serial number, manufacturer, and inspection data.

**Nestle Purina LiDAR As-Built and 3D Modeling, Varo Engineers, Zanesville, OH**
LiDAR As-Built of 4 story Nestle Purina facility and 3D model produced of the structure and all equipment inside for the client to use for design.

**LiDAR As-Builts of Stream Restoration, Ecosystem Investment Partners, LLC, Logan Logan County, WV**
As-Built Survey of over 20 miles of constructed natural stream channel using Terrestrial LiDAR and production of As-Built surfaces and breaklines. Truview Global creation and linking via QR code to As-Built sheet sets.
** Work performed prior to joining CEC*

**TRAINING**

Civil 3D Professional Certification through Synergis

**PROFESSIONAL AFFILIATIONS**

American Society of Civil Engineers

# Adam R. Krason, AIA, LEED AP, ALEP

**Role**
Principal

**Professional Registrations**
Registered Architect (WV, OH, KY, VA, MD, NJ)
LEED Accredited Professional
Accredited Learning Environment Professional
NCARB (55,984)
Construction Specifications Institute (CSI)
Construction Documents Technician (CDT)

Mr. Krason has served in the capacity of Architect and Project Manager for a variety of projects at ZMM. This experience includes Military, Educational (K-12 and Higher Education), Office, Justice (Courthouses, Correctional, Justice Centers), and Multi-Unit Residential projects. Mr. Krason's responsibilities include programming, design, documentation, coordination of the architectural and engineering team, as well as construction administration. Mr. Krason began his career in 1998, working on a variety of educational, commercial office, and correctional projects throughout Ohio, West Virginia, and North Carolina.

Mr. Krason has been an advocate of sustainable design in West Virginia, participating in a variety of sustainable design seminars throughout the State, and serving on the West Virginia School Building Authority Green Schools Sub-Committee. Recently, Mr. Krason helped coordinate the "Making the Business Case for Sustainability" conference at the University of Charleston that included speakers from Armstrong Industries, American Electric Power, CB Richard Ellis, and Interface Raise. Mr. Krason also assisted Habitat for Humanity Kanawha and Putnam County develop a commercial recycling program to fill a void in the sustainable design infrastructure in West Virginia. Mr. Krason has noted that, "I became a LEED Accredited Professional because I believe that good design has value, and the ability to impact our daily lives. Sustainable design showcases the value of design through demonstrated improvements in the performance of the students and employees who occupy our buildings." In addition to his design and project management responsibilities, Mr. Krason serves on the Board of Directors and is responsible for business development at ZMM.

**Project Experience**

**Claudia L. Workman Fish and Wildlife Education Center**
**Alum Creek, WV**
Mr. Krason is currently the principal on the new Claudia L. Workman Fish and Wildlife Education Center, the 7,000 SF

**Education**
Bachelor of Architecture, The Catholic University of America, 1998

Bachelor of Civil Engineering, The Catholic University of America, 1997

**Employment History**
2007 - Present, Principal, ZMM
2007 - Present, Board of Directors, ZMM
2003 - Present, Architect, Project Manager, ZMM
1998 - 2003, Architect, Project Manager, Charleston Area Architectural Firm

**Civic Affiliations**
- WV American Institute of Architects, President
- Habitat for Humanity Kanawha & Putnam County, Board of Directors 2011 - 2014
- WV Qualification Based Selections Council, President, 2012/2013
- Leadership WV 2010 - 2012
- Charleston Rotary
- West Side Main Street, Board of Directors 2008 - 2014
- City of Charleston Land Trust 2008 - 2014

building is nestled in the beautiful West Virginia landscape. The building layout concentrates on both the visitor and user experience while creating a dynamic space to celebrate some of West Virginia's greatest natural treasures. One of the key concepts of the building is to represent our wild and wonderful state by incorporating natural materials such as stone, a variety of woods, and other natural finishes. The building is set to open this year.

**Beech Fork State Park, Lavalette, WV (unbuilt)**
Mr. Krason was the principal for new lodge and conference center at Beech Fork State Park. The facility will include guestrooms and other guest-only facilities in one area and public functions such as the restaurant, lounge, gift shop, and conference rooms in another area. All guestrooms offer a lake view, a 2-story atrium opens up each end of the lobby with curtain-wall glazing, and an indoor pool provides a transparent connection to the outdoors. A high-performance envelope was designed to eliminate thermal bridging and the potential for condensation.

**Charleston Coliseum & Convention Center, Charleston, WV**
Mr. Krason served as principal-in-charge of the expansion and renovation to the Charleston Civic Center. The $75M, 283,000 SF design-build project is being completed as a collaboration with tvsdesign and BBL Carlton. Mr. Krason was responsible for the overall management of the design team, coordination with the client, and also has input critical project management decisions. The design commenced in the spring of 2015, and construction was complete in 2018.

**Joint Interagency Training & Education Center (WVARNG), Kingwood, WV** Mr. Krason was responsible for the preliminary programming, and participated in the schematic design of the 180,000 SF addition to the Regional Training Institute at Camp Dawson. Mr. Krason was also responsible for managing the production effort for the billeting (hotel) expansion, which increased the total billeting capacity at the JITEC to 600 rooms. This project received LEED Gold Certification.

**Ravenswood Middle School, Ravenswood, WV**
Mr. Krason was the principal on the new addition to the middle school that included 40,000 SF to accommodate 360 students in grades 6-8. In addition to the new middle school, upgrades were also made to the existing high school. These improvements include the replacement of the HVAC system, ceiling, and lighting replacement, as well as minor interior and finish upgrades. The $14M project was completed and occupied in time for the 2019-2020 academic year.

**Jackson County AFRC (WVARNG), Millwood, WV**
Mr. Krason was the principal on the new facility that houses both the West Virginia Army National Guard (WVARNG) and the United States Army Reserves (USAR). The facility also includes an expanded Drill Hall that can serve as a convention and meeting space, which is being funded by the Jackson County Commission, additional federal appropriations, and the State of West Virginia National Guard. A transverse wing on the left houses all functions that have the potential for public use, such as the Drill Hall and the Educational component, while all primary military spaces developed along a similar perpendicular wing on the right. This allows for separate entries to be developed for public functions, while the remainder of the facility can be secured.

**Morgantown Readiness Center (WVARNG), Morgantown, WV**
Mr. Krason was the project architect on the new Morgantown Readiness Center. This facility is a unique due to its location on an abandoned airport runway at the Morgantown Municipal Airport. The 54,000 SF Readiness Center occupies a 35-acre tract at the airport. This center supports traditional military functions including the 1-201$^{st}$ Field Artillery. A significant portion of the Morgantown Readiness Center supports the 249$^{th}$ Army Band. The Readiness Center contains a performance hall, pre-function spaces, as well as a variety of training and rehearsal areas.

**Participated on the team that won the following awards and acknowledgements:**
2020 WV AIA Merit Award Mountain Valley Elementary School, Green Valley, WV
2019 WV AIA Honor Award Charleston Coliseum & Convention Center, Charleston, WV
2018 WV AIA Citation Award Charleston EDGE, Charleston, WV
2017 WV AIA Merit Award Logan-Mingo Readiness Center, Holden, WV
2016 WV AIA Merit Award Christ Church United Methodist, Charleston, WV

# John Pruett, PE, LEED AP

**Role**
Senior Mechanical Engineer

**Professional Registrations**
Professional Engineer (WV, VA, IN)
LEED Accredited Professional

Mr. Pruett is responsible for overseeing the design of the HVAC systems, ensuring that the HVAC systems not only meet the program requirements, but meet the long-term needs of the owner. He performs heating and cooling load calculations and recommends the type of systems to be incorporated into the building. He coordinates with the other disciplines in order to integrate the HVAC systems into the building. Mr. Pruett has participated on several LEED registered projects; one of his key contributions to these projects is conducting energy analyses and recommending energy use reduction alternatives.

Mr. Pruett began his career in engineering with a manufacturing company in 1994. In 1998, he made a career change and joined an engineering consulting firm as an HVAC design engineer. He has a broad range of experience in HVAC systems design, including K-12 schools, higher education facilities, office buildings, libraries, hotels, restaurants, a convention center and several natatoriums. Having served in the Marines for 14 years, Mr. Pruett also led a design team for a "virtual memorial" for the birthplace of the U.S. Marine Corps.

**Project Experience**
WVARNG Camp Dawson Building
WVARNG Camp Dawson Building 246
WVARNG Camp Dawson Building 301
WVARNG Camp Dawson Mail Facility
WVARNG Marshall County Readiness (Design)
WVARNG Camp Dawson Job Challenge Academy

**Wood County Justice Center, Parkersburg, WV** Mr. Pruett was responsible for the HVAC systems design for the LEED Silver project comprised of the judicial courts, Sheriff's department and holding cell area. The project utilizes high-efficiency custom air handling units, including an energy recovery unit for the holding cell area, which has helped reduce energy consumption on the project by 18% compared to a baseline analysis.

**Tucker County Courthouse Annex, Parsons, WV**
Mr. Pruett was the Mechanical Engineer for the Courthouse Annex renovation project and responsible for the HVAC

**Education**
Bachelor of Science, Purdue University, West Lafayette, IN, 1993

**Employment History**
2021- Present, Board of Directors, ZMM
2010 - Present, Project Engineer, ZMM
2007 - 2009, Sr. Mechanical Engineer, IN
2003 - 2007, Mechanical Engineer, IN
1999-2003, Project Engineer, Fort Lauderdale, FL

**Civic Affiliations**
- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Member
- United States Marine Corps – 14 Years

systems. The Annex is a 4-story, 21,000 Square Foot building that is adjacent to the Tucker County Courthouse. The annex will house spaces for the Circuit Court, Circuit Clerk, Family Court, Magistrate Court, Prosecuting Attorney, County Commission, County Clerk, Community Corrections, and Probation Office.

**Huntington East Middle School, Huntington, WV** Mr. Pruett was responsible for the HVAC systems design. This school features numerous sustainable features, including an air monitoring system for verifiable indoor air quality, variable refrigerant flow (VRF) systems for portions of the school that will operate year-round, preheating of the domestic hot water with the heating hot water return. Mr. Pruett also conducted an extensive energy analysis of the building and all of its systems to maximize the effect of each component, resulting in a projected reduction in energy consumption of 32% compared to a baseline analysis.

**Edgewood Elementary School, Charleston, WV** Mr. Pruett was the mechanical engineer on the new Kanawha County Elementary School on Charleston's West Side and responsible for the HVAC systems design. The school is being designed as a 21st Century Learning Environment, with a focus on integrating technology into the delivery of the curriculum. Instructional areas will be located off of an open 'exploratorium' that is being designed to function like a children's museum, providing a variety of learning opportunities, and flexible educational spaces. The school will also visibly integrate sustainable design principles to serve as a teaching tool for the students.

**Cabell County Schools**
Barboursville Middle School - Additions and Renovations
Huntington East Middle School
Huntington High School - Controls system replacement for
Explorer Academy
Cabell County Bus Garage
Southside Elementary/Huntington Middle School
Huntington High School – Cooling tower replacement
Cabell Midland High School - Cooling tower replacement
Martha Elementary School- Addition
Salt Rock Elementary Renovations
Cabell County Career & Technical Center – HVAC Replacement
Huntington High School Wrestling Room Addition
Milton PK - Additions and Renovations

Fayette County Schools
New River Primary / Oak Hill Middle School
Valley High School - Gym addition
Oak Hill High School – Renovations
Fayetteville PK-8 - Renovations
Midland Trail High School - Renovations
Valley PK-8 - Renovations
Meadow Bridge Elementary - Renovations
Divide Elementary - Additions and Renovations

Putnam County Schools
Hurricane High School - Renovations
Putnam Career & Technical Center – Welding Shop

**Valley Health Systems, Wayne, WV**
Mr. Pruett was the mechanical engineer on the new health clinic in Wayne, WV. ZMM prepared construction documents for a new, one-story medical building operated by Valley Health Systems of Huntington, WV. The building is 15,580SF on a 2-acre site including approximately 100 parking spaces. Valley Health Systems provides primary and preventative care to the medically underserved population of southern West Virginia. The new building will replace an existing undersized facility.

# David Gunnoe, PE, CAP

**Role**
Electrical Engineer

**Professional Registrations**
Professional Engineer (WV, MI, VA, TX, MN)
ISA Certified Automation Profession (CPA)

Mr. Gunnoe has over 12 years of experience in power generation, material handling, and petrochemical process control. His technical expertise is in industrial electrical design with particular focus on industrial controls, automation, and instrumentation. He has been involved in every aspect of project completion from pre-planning, frontend design, detailed design, bidding, construction, and inspection all the way to final programming, system tuning, troubleshooting, commissioning, and long-term support.

Mr. Gunnoe now serves as an Electrical Engineer with ZMM and is responsible for all aspects of the electrical design process including interior and exterior lighting, power distribution, lightning protection, network system design, security systems, safety systems and fire alarms, low voltage control and automation systems, and equipment specifications. He also performs electrical inspections and assessments during construction and can consult and participate in troubleshooting efforts to remedy existing electrical issues.

**Project Experience**

- WV School of Osteopathic Medicine – New Testing Center Expansion, Lewisburg, WV
- WV School of Osteopathic Medicine – Community Health Center, Lewisburg, WV
- Williamson Health and Wellness Clinic, Williamson, WV
- Kanawha County Schools – The New Clendenin Elementary School, Clendenin, WV
- The Keith-Albee Theater Electrical and Life-Safety Upgrades
- Roane-Jackson Technical Center Plumbing and Electrical Renovations

**Education**
Bachelor of Science in Electrical Engineering, West Virginia University Institute of Technology, 2009

**Employment History**
2021 - Present, Electrical Engineer, ZMM
2014 – 2021, Control Systems Engineer, CDI Corporation, Charleston, WV
2012 – 2014, Control Automation Engineer, Nitro, WV
2010 – 2012, Department of Defense, Dalgren, VA
2008 – 2010, American Electric Power, Brillian, OH

# Rodney Pauley, AIA

**Role**
Project Manager

**Professional Registrations**
Registered Architect (WV)

Mr. Pauley is responsible for overseeing the daily design and production of the building, working in conjunction with in-house architectural, interiors and engineering staff to ensure the building not only meets the program requirements and budget, but meet the long-term needs of the owner. He also works directly with project principals to manage contracts, staffing and project deliverables. Mr. Pauley has a broad knowledge of building materials and services, building codes, and construction techniques, along with extensive experience in architectural detailing.

Mr. Pauley began his career in 1992 with an architectural firm in Atlanta, Georgia, and for the next 12 years rose to the Associate level by designing and managing a wide variety of project types including educational, retail, historic renovation, medical, and entertainment, specializing in office and speculative office design.

From 2005 through 2010, he worked at a number of Atlanta firms designing and managing office, high-rise condominium, and hotel projects. In 2010, Mr. Pauley moved back to Charleston, WV, to take a project management position with ZMM where he supervises the design and production of military, correctional and higher education projects.

## Project Experience

**Pipestem Resort State Park Lodge, Pipestem, WV**
Mr. Pauley is currently the project manager on the renovations to 88 guestrooms on first floor, bathroom expansions on the 7th floor, renovations to the dining area with a bar addition, renovations to all conference rooms, finish renovations in the lobby. ZMM will be replacing the ceilings and lightings in all public spaces and guestroom corridors in the main McKeever lodge building. Mountain creek lodge that sits below McKeever Lodge will receive a new roofing on the guestroom buildings and restroom will be renovated in the main tram building. The newly renovated lodge is set to open this summer 2021.

**Beech Fork State Park, Lavalette, WV (unbuilt)**
Mr. Pauley was the project manager for new lodge and conference center at Beech Fork State Park. The facility will include guestrooms and other guest-only facilities in one area

**Education**
Bachelor of Architecture, University of Tennessee, 1992

Associate of Science, West Virginia Institute of Technology, 1986

**Employment History**
2010 - Present, Project Manager, ZMM
2008 - 2010, Project Manager, GA Firm
2006 - 2008, Project Manager, GA Firm
2005 - 2006, Sr. Project Architect, GA Firm
Jan. 2005 - Aug. 2005, Project Architect, VA Firm

**Civic Affiliations**
- American Institute of Architects, Member

and public functions such as the restaurant, lounge, gift shop, and conference rooms in another area. All guestrooms offer a lake view, a 2-story atrium opens up each end of the lobby with curtain-wall glazing, and an indoor pool provides a transparent connection to the outdoors. A high-performance envelope was designed to eliminate thermal bridging and the potential for condensation.

**Charleston Coliseum & Convention Center, Charleston, WV**
Mr. Pauley served as project manager on the expansion and renovation to the Charleston Civic Center. The $75M, 283,000 SF design-build project was completed as a collaboration with tvsdesign and BBL Carlton. The design commenced in the spring of 2015, and construction was completed in the fall 2018.

**BridgeValley Community and Technical College - Master Plan, Montgomery, WV**
As part of an effort to provide overall Master Plan services to BridgeValley CTC, ZMM worked with various stakeholders to develop a Master Plan for BridgeValley's current and future facilities at the Tech Park. The Master Plan incorporated the need to develop a consistency between BridgeValley's Montgomery and South Charleston campuses, while also integrating the brand into the Park. The final design included planning for a new classroom and laboratory building adjacent to Building 704, across from the Advanced Technology Center. Signage, site circulation, parking, and campus amenities were also included in this planning process.

**BridgeValley Community and Technical College (Davis Hall, Building 704), Montgomery, WV** Mr. Pauley was the project manager for a design team that is currently preparing construction documents for the renovation to an existing 7-story, 77,000 SF educational building. The project scope includes remedying several engineering and life safety deficiencies, as well as architectural improvements to the building envelope.

**WVSOM Tech Building Expansion (Testing Center), Lewisburg, WV**
Mr. Pauley is currently the project manager on the design of the new testing center at WVSOM. The new testing center was designed to connect to the Tech Building to the CEC and will accommodate 220 students. The Testing Center does not have exterior windows, features from both buildings including masonry banding and natural stone elements were used to provide human scale, while natural lighting is introduced in the concourse and pre-function space.

**WV Lottery Headquarters, Charleston, WV**
Mr. Pauley was the project manager and prepared construction documents for renovations to the existing WW Lottery Headquarters complex in Charleston, WV. Renovations to the existing 12-story office building include the demolition and reconstruction of three floors of tenant space and demolition and replacement of the existing roof along with various minor renovations throughout the office tower. The existing 5-story parking deck had extensive structural renovations. Renovations included: replacing bearing pads, patch & repair of concrete members and the addition of waterproofing protection. The existing warehouse under the parking deck was enlarged to provide additional storage space.

# Nathan Spencer, AIA

**Role**
Project Architect

**Professional Registrations**
Registered Architect (WV)

Mr. Spencer is responsible for coordinating the efforts of the design team in preparing thorough and clear design documents. He has experience in all phases of design working on a wide range of building types including; military, educational, office, justice, and residential.

He has worked on several projects that are currently pursuing LEED certification. In addition to production, Mr. Spencer, is also experienced in 3d modeling. He has worked on several preliminary concept study models as well as high quality renderings and 3d models later in the design process. Mr. Spencer is also experienced in high quality physical models.

Mr. Spencer began his career in architecture with ZMM in 2003, working as a summer intern. After graduating in 2003, he began working at ZMM full time.

## Project Experience

**Beech Fork State Park, Lavalette, WV (unbuilt)**
Mr. Spencer was the project architect for the new lodge and conference center at Beech Fork State Park. The facility will include guestrooms and other guest-only facilities in one area and public functions such as the restaurant, lounge, gift shop, and conference rooms in another area. All guestrooms offer a lake view, a 2-story atrium opens up at each end of the lobby with curtainwall glazing, and an indoor pool provides a transparent connection to the outdoors. A high-performance envelope was designed to eliminate thermal bridging and the potential for condensation.

**Logan-Mingo Readiness Center, Holden, WV**
Mr. Spencer was the architect on the new Logan-Mingo Readiness Center. The exterior aesthetic of the facility was driven by the location within an industrial park on a reclaimed surface mined site. The building layout was developed by working closely with the end-users to determine the appropriate configuration of building spaces to maximize the efficiency of the operations, and to respond to the unique missions of the 150th Armored Reconnaissance Squadron and the 156th Military Police (LNO) Detachment. Clear separation of “public” and “private” areas within the facility, unique office configurations related to training requirements, and the addition of State

**Education**
Bachelor of Architecture, University of Tennessee, 2007

**Employment History**
2009 - Present, Architect, ZMM
2007 - 2009, Intern Architect, ZMM
2003 - 2007, Summer Intern, ZMM

**Civic Affiliations**
- American Institute of Architects, Member

Funded additional spaces.

**Jackson County AFRC, Millwood, WV**
Mr. Spencer participated in the schematic design of the 76,000 SF Reserve Center in Jackson County, West Virginia. Mr. Spencer was also responsible for coordinating the production effort for the project. Mr. Spencer also produced several 3D models throughout the design process. The project is aiming for LEED Silver Certification.

**Joint Interagency Education and Training Center (WVARNG), Kingwood, WV**
Mr. Spencer participated in the schematic design of the 180,000 SF addition to the Regional Training Institute at Camp Dawson. Mr. Spencer was also responsible for coordinating the production effort for the billeting (hotel) expansion, which increased the total billeting capacity at the JITEC to 600 rooms. This project received LEED Gold Certification.

**Morgantown Readiness Center, Morgantown, WV**
Mr. Spencer was a member of the production team for the 58,000 SF project, which housed the Army Band and associated performance spaces. Mr. Spencer also produced several 3d models throughout the design process. He also participated on all production work through all phases. The project is aiming for LEED Silver Certification.

**Charleston Coliseum & Convention Center, Charleston, WV**
Mr. Spencer served as project architect on the expansion and renovation to the Charleston Civic Center. The $75M, 283,000 SF design-build project is being completed as a collaboration with tvsdesign and BBL Carlton. The design commenced in the spring of 2015, and construction was completed in 2018.

**Tucker County Courthouse Annex, Parsons, WV**
Mr. Spencer was the project architect for the Courthouse Annex renovation project. The Annex is a 4-story 21,000 Square Foot building that is adjacent to the Tucker County Courthouse. The annex will house spaces for the Circuit Court, Circuit Clerk, Family Court, Magistrate Court, Prosecuting Attorney, County Commission, County Clerk, Community Corrections, and Probation Office.

**Judge Black Courthouse Annex, Parkersburg, WV**
Mr. Spencer assisted with the design and programming of the adaptive reuse of a former commercial space and movie theaters into a modern courthouse annex. The Judge Black Annex included two independent circulation paths – a secure entry and lobby for access to the Family Court and Prosecuting Attorney, and public access to the Assessor and Sheriff's Tax Department. The facility also houses several large public meeting rooms.

**Cabell County Bus Transportation Complex, Huntington, WV** Mr. Spencer was the project Architect on the Cabell County Transportation Complex is located on the site of the old Cox Landing Junior High School. Challenges on the project involved retrofitting the old school and site to accommodate the new use. The rear portion of the school was demolished to make room for the new maintenance portion of the building. The remaining front section of the school was renovated to include office space, storage areas, and a new staff development room. The new maintenance area includes a high-bay metal building with 14 back to back work-bays, three of which have hydraulic bus lifts. A hand wash bay and a state of the art automatic wash bay were also included in the project. Extensive sitework was also involved in the retrofit project including a fueling station, bus parking, a sediment pond, and an extensive rework of the existing site utilities.

**Highland Hospital, Charleston, WV**
Mr. Spencer was the project architect on Highland Psychiatric Hospital. Mr. Spencer was responsible for coordinating the production effort for the 60,000+ SF mental health facility. Mr. Spencer also produced several 3-D models throughout the design process. This project consisted of 87,300 SF, $26M addition to Highland Hospital in Charleston. The addition included: administrative offices, training spaces, 165 patient beds, nurses stations, an out-patient treatment department, pharmacy, laundry, and building service spaces. A pedestrian bridge will connect the new facility to the existing hospital.

# Resume

# Jill M. Watkins

## EDUCATION

Bachelor of Science in Interior Design ..... May 1993
The University of Tennessee, Knoxville ..... CIDA Accredited

## CERTIFICATIONS / ACCREDITATIONS

WELL Accredited Professional ..... Mar 2021
Wilderness First Aid ..... Mar 2021
Virginia Certified Interior Designer ( [redacted] ) ..... Nov 2019
Washington, D.C. Certified Interior Designer ( [redacted] ) ..... Oct 2019
Maryland Certified Interior Designer ( [redacted] ) ..... Sep 2019
LEED Accredited Professional BD+C ..... Apr 2003
National Council for Interior Design Qualification (NCIDQ [redacted] ) ..... Oct 1997

## COMMUNITY INVOLVEMENT / MEMBERSHIPS

Appalachian Mountain Club ..... Backpacking, Bicycling, and Hiking Leader
Citizens' Climate Lobby West Virginia ..... Member
U.S. Green Building Council West Virginia ..... Former Chair
BridgeValley Community & Technical College ..... Former Adjunct Professor

## EXPERIENCE

Watkins Design Works, LLC ..... Jan 2014 – Present
Owner — Charleston, WV

Jill started her own interior design and green building consulting business in 2014 As an NCIDQ-certified interior designer with nearly 30 years of experience, and now as an entrepreneur, Jill brings both knowledge of and a passion for interior design and green building to all her clients

ZMM Architects and Engineers ..... May 2008 – Dec 2013
Interior Designer/Sustainability Coordinator — Charleston, WV

In this dual role, Jill worked alongside project architects in developing comprehensive finish and furn ture designs, as well as with all project team members on the firm's LEED projects, including the JITEC facility at Camp Dawson (LEED Gold Certified) and the Wood County Justice Center (LEED Certified) She selected colors for many of the firm's school projects, and was integrally involved w th their military and higher education clients

Cubellis ..... Dec 2005 – May 2008
Senior Interior Designer — Boston, MA

Jill was responsible for design of the firm's Boston headquarters, which received LEED-CI Gold Certification in August of 2009 She was also a key team member in the design of Gillette's global headquarters renovation and subsequent tenant redistribution in their former lease space

Watkins Design Works, LLC
815 Quarrier Street, Suite 202
Charleston, WV 25301
304 553 7002 office
www watkinsdesignworks com

Wolf Maison Limited ..... Feb 2004 – Aug 2005

Interior Designer — Cleveland, OH

As interior designer for this architectural start-up, Jill expanded her experience into dental office design and high-end residential projects, along with additional corporate work She also provided LEED assistance to Cleveland State University in the form of drawing and specification reviews and recommendations for the new Recreation Center; the building is LEED Silver Certified

Doty & Miller Architects ..... May 2003 – Feb 2004

Interior Designer — Cleveland, OH

For one of Cleveland's greenest arch tectural firms, Jill provided sustainable interior design for a variety of project types, including healthcare, public projects and nonprofit organizations

AECOM (formerly URS Corporation) ..... Nov 1999 – Feb 2003

Senior Interior Designer — Cleveland, OH

Jill participated among teams of interior designers, architects and engineers to work on secondary schools, higher education, and public projects She served an integral role on the design team for the Nathaniel R Jones Federal Building and U S Courthouse in Youngstown, Ohio This was the first courthouse in the U S and the first building in Ohio to become LEED Certified

KA, Inc. Architecture ..... Apr 1998 – Nov 1999

Interior Designer — Cleveland, OH

Jill went to KA after their purchase of Triad Design in 1998 As part of the Corporate Studio, she gained experience in the design of corporate headquarters, but also assisted architects with malls and big-box retail store design and documentation

Triad Design Interiors ..... Aug 1996 – Apr 1998

Interior Designer — Cleveland, OH

As a designer with this small interior design firm, Jill was involved in many different project types, including corporate offices, restaurants, and private suites for the new Cleveland Browns football stadium

Koster & Associates Architects ..... Mar 1995 – Aug 1996

Interior Designer — Cleveland, OH

Koster & Associates specialized in library design throughout the Midwest Jill was responsible for interior finishes, furniture design and custom millwork design and documentation

Capitol Business Interiors ..... May 1993 – Feb 1995

Interior Designer — Charleston, WV

After working at CBI in the summer months while in college, Jill worked as a full-time designer supporting the salespeople in the firm's many public and private projects, including Union Carbide's Building 6000 and the initial renovation of One Station Place

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www watkinsdesignworks com

## REPRESENTATIVE PROJECTS

### Procter & Gamble

Gillette World Shaving Headquarters
Gillette Park, Boston, MA 02127
Architect: Cubellis

### Cubellis Corporate Headquarters

271 Summers Street, Boston, MA 02127
Architect: Cubellis

### Wood County Justice Center

1 Court Square, Parkersburg, WV 26102
Architect: ZMM Architects & Engineers

### West Virginia Army National Guard

Joint Interagency Training and Education Center
1001 Army Road, Kingwood, WV 26537
Architect: ZMM Architects & Engineers

Jackson County Armed Forces Reserve Center
8832 Point Pleasant Road, Millwood, WV 25262
Architect: ZMM Architects & Engineers

Morgantown Readiness Center
Morgantown Municipal Airport, Morgantown, WV 26505
Architect: ZMM Architects & Engineers

Logan-Mingo Readiness Center
James A "Buck" Harless Industrial Park, Holden, WV 25625
Architect: ZMM Architects & Engineers

Watkins Design Works, LLC
815 Quarrier Street, Suite 202
Charleston, WV 25301
304 553 7002 office
www.watkinsdesignworks.com

# B. Forms

**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.

Principal

(Name, Title)
Matthew Fluharty, PE Principal

(Printed Name and Title)
120 Genesis Boulevard, Bridgeport, WV 26330

(Address)
304-933-3119 / 304-933-3327

(Phone Number) / (Fax Number)
mfluharty@cecinc.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.*

Civil & Environmental Consultants, Inc.

(Company)

Principal

(Authorized Signature) (Representative Name, Title)

Matthew Fluharty, PE Principal

(Printed Name and Title of Authorized Representative)

September 2, 2021

(Date)

304-624-5899

(Phone Number) (Fax Number)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI 0310 DNR2200000001

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)*

- [x] 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.

Civil & Environmental Consultants, Inc.
Company


Authorized Signature

September 2, 2021
Date

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

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 exceed 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: Civil & Environmental Consultants, Inc.

Authorized Signature: _____ Date: September 2, 2021

State of West Virginia

County of Harrison, to-wit:

Taken, subscribed, and sworn to before me this 2 day of September, 2021.

My Commission expires July 3, 2022.

**AFFIX SEAL HERE**

OFFICIAL SEAL
Notary Public, State Of West Virginia
AMY R MILLER
109 Parkview Drive No 101
Bridgeport, WV 26330
My Commission Expires July 3, 2022

**NOTARY PUBLIC** Amy R Miller

West Virginia Ethics Commission

# Disclosure of Interested Parties to Contracts

Pursuant to *W. Va. Code* § 6D-1-2, a state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of $1 million or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract. In addition, the business entity awarded a contract is obligated to submit a supplemental Disclosure of Interested Parties reflecting any new or differing interested parties to the contract within 30 days following the completion or termination of the applicable contract.

For purposes of complying with these requirements, the following definitions apply:

*"Business entity"* means any entity recognized by law through which business is conducted, including a sole proprietorship, partnership or corporation, but does not include publicly traded companies listed on a national or international stock exchange.

*"Interested party"* or *"Interested parties"* means:

(1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors;
(2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract. (This subdivision does not apply to a publicly traded company); and
(3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency. (This subdivision does not apply to persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.)

*"State agency"* means a board, commission, office, department or other agency in the executive, judicial or legislative branch of state government, including publicly funded institutions of higher education: Provided, that for purposes of W. Va. Code § 6D-1-2, the West Virginia Investment Management Board shall not be deemed a state agency nor subject to the requirements of that provision.

The contracting business entity must complete this form and submit it to the contracting state agency prior to contract award and to complete another form within 30 days of contract completion or termination.

*This form was created by the State of West Virginia Ethics Commission, 210 Brooks Street, Suite 300, Charleston, WV 25301-1804. Telephone: (304)558-0664; fax: (304)558-2169; e-mail: ethics@wv.gov; website: www.ethics.wv.gov.*

*Revised June 8, 2018*

West Virginia Ethics Commission

# Disclosure of Interested Parties to Contracts

(Required by *W. Va. Code* § 6D-1-2)

**Name of Contracting Business Entity:** Civil & Environmental Consultants, Inc. **Address:** 120 Genesis Boulevard Bridgeport, WV 26330

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

**Contract Number:** CEOI 0310 DNR2200000001 **Contract Description:** A/E Services-Beech Fork & Coopers Rock New Cabins

**Governmental agency awarding contract:** West Virginia Division of Natural Resources

☑ **Check here if this is a Supplemental Disclosure**

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

1. **Subcontractors or other entities performing work or service under the Contract**
   ☐ Check here if none, otherwise list entity/individual names below.

2. **Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)**
   ☐ Check here if none, otherwise list entity/individual names below.

3. **Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)**
   ☐ Check here if none, otherwise list entity/individual names below.

Signature: _____ Date Signed: 9/2/21

## *Notary Verification*

State of West Virginia, County of Harrison:

I, Amy R. Miller, 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 2 day of September, 2021

Amy R Miller
Notary Public's Signature

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

OFFICIAL SEAL
Notary Public, State Of West Virginia
AMY R MILLER
109 Parkview Drive No 101
Bridgeport, WV 26330
My Commission Expires June 3, 2022

*Revised June 8, 2018*

Civil & Environmental
Consultants, Inc.

120 Genesis Boulevard | Bridgeport, WV 26330 | www.cecinc.com