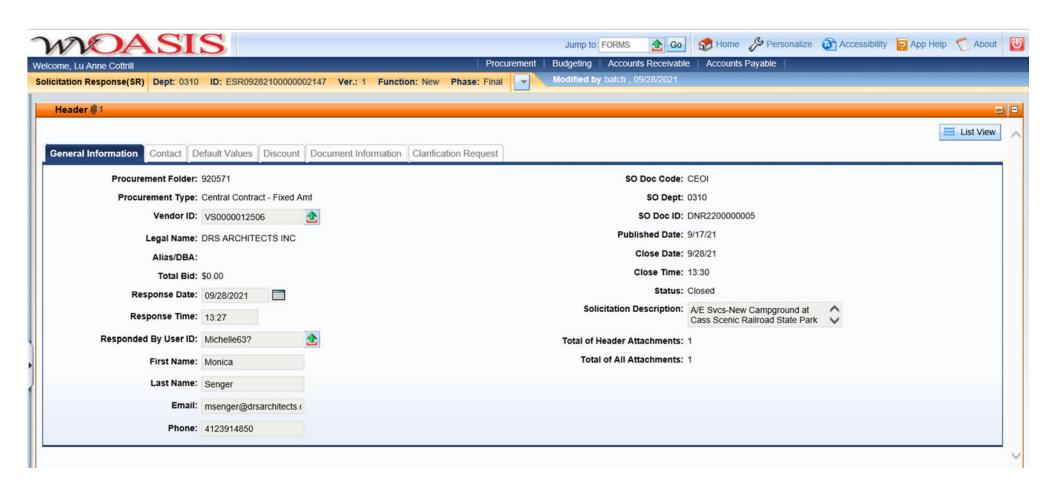


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026

Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.





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: 920571

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

Proc Type: Central Contract - Fixed Amt

Solicitation Response Solicitation Closes Version 2021-09-28 13:30 SR 0310 ESR09282100000002147

VENDOR

VS0000012506 DRS ARCHITECTS INC

Solicitation Number: CEOI 0310 DNR2200000005

Total Bid: Response Date: Response Time: 0 2021-09-28 13:27:01

Comments:

FOR INFORMATION CONTACT THE BUYER

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

Vendor Signature X

DATE

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

FORM ID: WV-PRC-SR-001 2020/05 Date Printed: Sep 28, 2021 Page: 1

FEIN#

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 campground facilities at Cass Scenic Railroad State Park.

Date Printed: Sep 28, 2021 Page: 2 FORM ID: WV-PRC-SR-001 2020/05

CEOI 0310 DNR2200000005

AE Services for New Campground at Cass Scenic Railroad State Park

DRS Architects September 28, 2021

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SECTION 1: QUALIFICATIONS, EXPERIENCE, AND PAST PERFORMANCE

QUALIFICATIONS, EXPERIENCE, PAST PERFORMANCE

The DRS Architects Team assembled for the New Campground at Cass Scenic Railroad State Park project includes the following specialists:

DRS Architects – Architectural Design, Interior Design, and Project Management

Allegheny Design Services – Structural Engineering and MEP

Stahl Sheaffer Engineering - Civil Engineering

Civil & Environmental Consultants - Environmental Consulting

Klavon Design Associates – Landscape Architecture

Trophy Point - Cost Estimating

Much thought and consideration was put into choosing a strong team, as we were mindful of the project goals and objectives. We have experience with our proposed subconsultants and know the excellent quality of work they produce to the highest standards. Included in this section of our proposal, you will find company profiles, resumes of key team members, and relevant project experience descriptions.

TEAM QUALIFICATIONS

DRS ARCHITECTS — ARCHITECTURAL AND INTERIOR DESIGN

DRS Architects is led by Principal-in-Charge, Paul Cali, AIA, who brings strong master planning and conceptual design experience to the team. Paul is an expert when it comes to planning and creatively thinking out-of-the-box to explore every design option and envision a design that will encompass the project goals and objectives.

Tony Pagliaroli, AIA, Project Architect, has a depth of knowledge in architecture that is founded from his experience working at architecture and engineering firms, as well as, project management for a contractor. Tony believes the key to a successful project is continual communication with the client and effective coordination among all team members. He has successfully followed many projects from design through construction.

Jason Woynar, NCIDQ, Senior Interior Designer, brings 20+ years of professional experience in interior design work. He is a creative and talented designer with extensive knowledge in space planning/ programming, construction documentation, and furniture / finish specification requirements to deliver a project from conception through completion.

Our three key team members, Paul, Tony, and Jason, have worked together numerous times on various projects.

ALLEGHENY DESIGN SERVICES - STRUCTURAL ENGINEERING/MEP

Allegheny Design Services (ADS) was selected to perform structural engineering and MEP design management on our team. ADS has 4 Licensed Professional Engineers and 2 LEED Accredited Professionals who are dedicated to serving West Virginia and the surrounding region. ADS recognizes the need for reliable and full-service engineering facilitation for clients and provides all phases necessary to successfully complete a project. Their straightforward approach provides clients with efficient and creative solutions to their project.



STAHL SHEAFFER ENGINEERING - CIVIL ENGINEERING

Stahl Sheaffer will serve as the civil engineers on our team for this project. Their team brings over 25 years of experience with extensive expertise in site evaluation and layout, utility design, erosion and sedimentation control plans, permitting, feasibility studies, stormwater management design, and drainage design. They have experience coordinating with clients and all applicable regulatory and resource agencies to gather the necessary data to effectively manage the completion of all environmental clearance and permitting requirements for projects.

CIVIL & ENVIRONMENTAL CONSULTANTS - ENVIRONMENTAL CONSULTING

Civil & Environmental Consultants (CEC) was selected as the environmental consultant for our team. CEC conducts environmental site assessments of properties to identify environmental liabilities and determine if past or adjacent land uses have resulted in environmental impacts. Assessments are designed to meet industry standards, such as ASTM and AAI, as well as client-specific and state-mandated standards when regulatory closure is the ultimate goal. They also provide a wide range of land surveying services with a full complement of cutting-edge technology, including 3D laser scanners using terrestrial Light Detection And Ranging (LiDAR) scanning to create spatial imaging. CEC has supported projects of similar size, scale, and scope as outlined in the solicitation. They provide a "one-stop-shop" for professional environmental services required during all phases of a project.

KLAVON DESIGN ASSOCIATES - LANDSCAPE ARCHITECTURE

Klavon Design Associates (Klavon) will serve as the landscape architects on our team. Their team is dedicated to creating sites that are as pleasant to use as they are to see, and offer enlightened innovation in landscape architecture. They are advocates for equitable design and sustainability as a means of improving the social and economic well-being for communities. With a focus on design and a proficiency in project management, Klavon has accumulated extensive experience in a variety of landscape architecture, planning, and urban design services. Klavon's philosophy is to provide simple design solutions that are timeless, ecologically sensitive, and easy to maintain. Their experience in major project execution is usually found in much larger firms, yet their structure allows them to provide flexible, responsive service that is only possible through one-on-one collaboration.

TROPHY POINT - COST ESTIMATING

Trophy Point, a certified Service-Disabled, Veteran-Owned Small Business (SDVOSB), will be providing cost estimating services on the team. The Trophy Point team strives to assist their clients in understanding construction costs during the concept phase of a project and provides them with detailed and accurate estimates as a project design matures. They developed an ability to provide accurate estimates prior to the execution of formal design efforts in way that enables clients to align their scope with their budgets quickly and effectively.



EXPERIENCE AND PAST PERFORMANCE

All of our team members have completed multiple relevant projects on time and within budget. The team brings a combined knowledge of competent and acceptable experience in all professional disciplines necessary for the design and completion of the project. Below is a list of relevant project experience for each of the firms on our team. More information about the projects can be found in the project descriptions included in this section.

DRS ARCHITECTS

Yellow Creek State Park, Pennsylvania DCNR, Brush Township, PA (Teamed with Klavon)

Nemacolin Resort and Spa, Sundial Lodge, Farmington, PA (Teamed with ADS)

Nemacolin Resort and Spa, Paradise Pool Revovations, Farmington, PA

Oglebay Park and Resort, Wilson Lodge Guest Room Addition, Wheeling, WV

ALLEGHENY DESIGN SERVICES

Nemacolin Woodlands Sundial Lodge, Farmington, PA (Teamed with DRS)

Hawk's Nest State Park Civilian Conservation Corps Museum & Shelter Restoration, Ansted, WV

Cacapon Resort State Park Lodge Addition and Renovations Berkeley Springs, WV

Canaan Valley Resort State Park, Davis, WV

STAHL SHEAFFER

Millbrook Marsh Nature Center & Parking Lot Projects — Centre Region Parks & Recreation, Millbrook Marsh Nature Center, State College, Centre County, PA

PA Department of Conservation & Natural Resources OpenEnd Contract FDC-500-809, State-Wide

Oak Hall Regional Park Site Design — Centre Region Parks & Recreation Authority, Centre County, PA

CIVIL & ENVIRONMENTAL CONSULTANTS

Ohiopyle State Park Office / Laurel Highlands Falls Area Visitor Center, Fayette County, PA Mylan Park RV Park, Morgantown, WV

KLAVON DESIGN ASSOCIATES

Yellow Creek State Park, Pennsylvania DCNR, Indiana, PA (Teamed with DRS)

Swan Creek Park Master Plan, Aberdeen Proving Ground, Aberdeen, MD

Shore Park Recreation Area, Aberdeen Proving Ground, Aberdeen, MD

Steel City Rowing Club, Steel City Rowing Club, Verona, PA

TROPHY POINT

NYS Hudson Eagles State Recreation Area – Hudson, Athens & Coxsackie Boat Launches, Hudson, NY

Hamlin Beach State Park - Capital Rehab Projects, Hamlin, NY

Allegany State Park - New Comfort Stations, Salamanca, NY





STATE OF WEST VIRGINIA

Department of Administration

DRS architects

PAUL CALI, AIA

Principal-in-Charge / Project Manager / Lead Designer

TONY PAGLIAROLI, AIA

Project Architect

JASON WOYNAR, NCIDQ

Senior Interior Designer

MEP & STRUCTURAL ENGINEERING

Allegheny Design Services

DAVID R. SIMPSON, P.E.,

SECB, MBA

President / Principal Engineer

JASON D. ROBINSON, P.E.

Vice President / Principal

MIKE CHANCEY, P.E.,

LEED AP

MEP Department Manager

DAVID A. COTTON, P.E.,

LEED AP BD+C Senior Mechanical Engineer

CIVIL ENGINEERING

Stahl Sheaffer

TIMOTHY H. KINDER, PLS,

ENVIRONMENTAL CONSULTANT

CFM Director of Survey / Director of Operations WV

MARK J. HAEFNER, P.E.

Senior Project Manager Land Development

JASON REED

Environmental Manager

Civil & Environmental Consultants

JAMES CHRISTIE, PLA Principal

JACQULYN D. KESTER Principal

JASON H. LITTLER, PS

Senior Project Manager

MATTHEW K. BAINBRIDGE, EIT

Project Manager III

BRITTANY HEDRICK, CPSS

Project Manager I

COST ESTIMATING

LANDSCAPE ARCHITECTURE

Klavon Design Associates

DINA COLE KLAVON.

RLA, ASLA

Principal

DREW HARBAUGH, RLA

Senior Landscape Architect

RACHELLE WOLF, LEED AP

Facilitator / Senior Landscape

Designer

Trophy Point

RICHARD CHUDZIK

President & Owner Estimator & Project Manager

JOSEPH DOMMER

Executive Vice President / Senior Estimator

ALEX L. CLARKSON, P.E. Associate Engineer

NECESSARY SUPPORT STAFF

Paul Cali, AIA, NCARB Principal



Summary of Qualifications:

Mr. Cali brings a wealth of architectural experience to a project team whether serving as designer, architect, or master planner. His focus at DRS has been directed toward architectural planning and design. He has a broad and diverse range of sports, recreation and hospitality design experience. While at Penn, he trained as a Regional Planner under Prof. Ian McHarg, the most important environmental planner and landscape architect of the 20th Century.

Education:

Master of Architecture, Graduate School of Fine Arts, University of Pennsylvania, 1992

Core Curriculum, Landscape Architecture & Regional Planning, Graduate School of Fine Arts, University of Pennsylvania, 1984-85

Graduate Studies, The Architectural Association, London, 1987-88

Bachelor of Arts, Philosophy, Lafayette College, 1984

Registration:

NCARB - Pennsylvania, Ohio, West Virginia, New York, Virginia and Oregon.

Relevant Project Experience:

Yellow Creek State Park, Brush Township, PA

Principal-in-Charge, Project Manager and Lead Designer for the complete renovation of the recreational beach at YCSP. Partnered with Klavon Design Associates for the extensive reconfiguration of the lakeside area including the sand beach from below the low-tide waterline and a central landscape of native grasses and pedestrian paths bounded by renovated parking areas and existing woodlands. New structures designed and built included restroom facilities, an event pavilion and two play areas for children of different age groups.

UPMC Cooper Fieldhouse at Duquesne University, Pittsburgh, PA

Principal-in-Charge, Project Manager and Lead Designer for Duquesne University's new Athletics Master Plan and the extensive renovation of the AJ Palumbo Center. The 81,000 SF renovation included sustainable design strategies including the reuse of the existing building structure & envelope, new LED lighting, high-efficiency replacement units, recycled content in materials and FSC-certified casework, doors and paneling products.

Community Center, North Fayette Township, PA

Lead Designer for the 30,000 SF community center, a capstone for North Fayette Township's Donaldson Park Recreation Complex. The project included a basketball court, fitness areas, running track, administrative offices, an outdoor terrace, and an upper floor banquet space with conferencing center for 150 persons.

University Master Plans at Edinboro, Shippensburg, Duquesne, Slippery Rock, CCBC

Lead Master Planner for complete master plans, athletic master plans and master plan updates for a variety of higher education institutions in the region. Formal training in regional planning utilized to inform large-scale architectural master planning projects.

Baldwin Community Pool, Baldwin Borough, PA

Principal-in-Charge, Project Manager and Lead Designer for the extensive renovation of the Baldwin Borough Pool House constructed in 1970. Toilets, bathing and changing room features were replaced inside the fifty-year-old structure and the pool house's exterior envelope was given a complete makeover, complemented by the addition of six,16' square fabric and steel shade structures.

Nemacolin Sundial Lodge and Adventure Center, Farmington, PA

Project Manager and Lead Designer for the design and construction of a new 25,000 SF adventure center which replaced the former ski lodge tragically lost to fire the previous year. The new facility perched at the apex of Mystic Mountain, serves as the resort's year-round outdoor activity hub and contains one of Nemacolin's signature restaurants. The hybrid steel / heavy-timber structure incorporating unbroken expanses of curtain wall and a natural stone base was a unique solution to a fast-track project delivery that replaced the destroyed structure by the opening of the following ski season.

Nemacolin Woodlands Resort, Paradise Pool, Farmington, PA

Project Manager and Lead Designer for a new ADA-compliant lap pool and pavilion at Nemacolin Woodlands Resort & Spa.



Tony Pagliaroli, AIA Project Architect



Summary of Qualifications:

Tony's depth of knowledge in architecture is founded in his experience working at both architecture and engineering firms and for a contractor. His background has informed his belief that listening to the client and strong coordination with all members on the team will result in a solution that meets the expectations of clients. With experience in a variety of market sectors his higher education projects reflect a variety of space types and uses on campuses across the country. He has successfully followed many projects from design through construction.

Education:

Master of Architecture, Kent State University, 2009 Bachelor of Science, Architecture, Kent State University, 2008

Registration:

Pennsylvania and New York

Professional Affiliations:

American Institute of Architects
Pennsylvania Society of Architects

Relevant Project Experience:

Department of Energy/NETL, Building 34, Alloys Laboratory Renovation, Albany, OR Architect responsible for developing the detailed documents for the renovation of approximately 8,000 SF with an addition of 3,000 SF to house a new Advance Alloy Laboratory. The new facility will provide code-compliant laboratory spaces, a material staging/storage area, a control room and other support areas to allow for the safe and effective conduct of the required research and support operations. \$15 M estimated construction cost.

*Penn State University New Kensington Campus, New Kensington PA

Project Manager and Lead Designer for several projects on campus including the conceptual interior renovations to an existing auditorium, including a new catwalk, new proscenium, new stage, and finishes. The design of a new entrance for the athletics building, new vestibule, roof improvements, new curtain wall, exterior hardscape improvements, accessibility upgrades, and new casework and finishes.

*Penn State University, Main Campus, State College, PA

Designer and Product Researcher for the design of interior improvements to the Paterno Library, including new office spaces, new Starbucks installation, and updated finishes.

*Penn State University, Main Campus, State College, PA

Designer and Product Researcher for the design of an addition and interior improvements to the Pattee Library, including a courtyard infill, new office spaces, student study rooms, curtain wall detailing, raised flooring and stair detailing, new toilet rooms, movable partition detailing, AV coordination, and new finishes.

*Interior Renovations for Honeywell Robotics, Pittsburgh PA

Served as project architect for the relocation of equipment and office spaces into a 17,000 sq ft existing office space. The A/E design services included renovations to the main entry space and relocation of work stations and large equipment.

*University of Nebraska-Lincoln, Lincoln NE

Designer and Product Researcher for the design of interior improvements to the Student Union, including new office spaces, decorative guardrail detailing, and updated finishes.

*University of South Carolina, Columbia SC

Designer for the conceptual design of a new Student Union, including building form and use, and engagement with surrounding program and public transportation.

*Interior Office Renovation for Bank of America, Bethesda, MD

Served as project architect for an interior renovation to an existing 5,000 sq ft office space. The A/E design services included the relocation and renovation of office work spaces, break room renovation, and two conference room renovations. Construction cost is estimated at \$400,000.



Jason Woynar, NCIDQ Senior Interior Designer



Summary of Qualifications:

Highly-skilled Senior Interior Designer with over 20+ years of professional experience in design work that focuses on higher education, hospitality, corporate and government facilities. Extensive knowledge in various project areas including space planning, construction programming, documentation, furniture and specification requirements to deliver a project from conception through completion. Team-oriented designer with project management skills and effective communication/ presentation skills.

Education:

B.S. Interior Design, 1999, La Roche University

Registration:

National Council Interior Design Qualifications Certified, 2011

Relevant Project Experience:

Nemacolin Resort Sundial Resort and Adventure Center, Farmington, PA

Interior designer for the 28,000 SF ski lodge and recreational facility. The lodge was conceived and constructed in a mere eight months and serves as the resort's four-season adventure center. Involved in all aspects of the project which included a 150-seat full-service restaurant/bar and lounge supported by outdoor dining terraces, retail shop, equipment rental area, video arcade, 8-lane bowling alley, lockers, restrooms and administrative offices.

Next Tier Connect Pittsburgh East, Monroeville, PA

Project Interior Designer involved in all aspects of the project including the design and renovation of the 5,800 SF conferencing center and management suite. The project included 2,250 SF of conferencing space divisible into three distinct spaces to accommodate various meeting types and furniture configurations. The conference center also incorporated a breakout area for small team meetings & gatherings and a catering kitchen to serve the new conference spaces. The management suite consisted of private and open offices, copy room and 10-person conference room.

Thelma Lovette YMCA, Pittsburgh, PA

Interior Designer for the Thelma Lovette, a cornerstone of Pittsburgh's Hill District's revitalization. The 40,000 SF, \$10,600,000 facility is a full-service YMCA and includes a gymnasium, swimming pool, exercise rooms, indoor track, multipurpose rooms, computer lab, daycare facility, outdoor playground and public plaza. The project received LEED NC Silver.

Community Center, North Fayette Township, PA

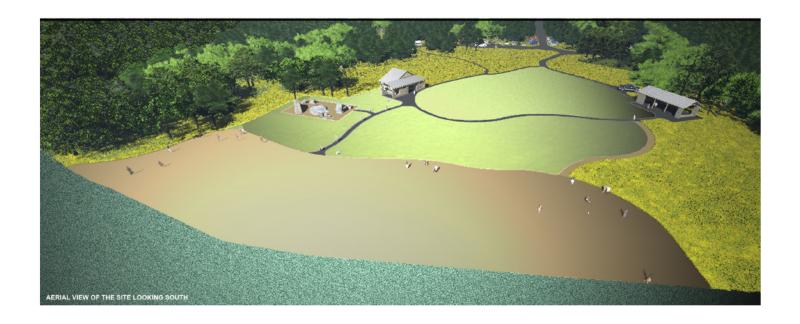
Interior Designer for the 30,000 SF community center, a capstone for North Fayette Township's Donaldson Park Recreation Complex. The project included a basketball court, fitness areas, running track, administrative offices, an outdoor terrace and an upper floor banquet space / conferencing center for 150 persons.

Community College of Beaver County, Monaca PA

Senior Interior designer involved in all aspects of the \$26 M renovation, including interior design, detailing, and specifications of FF&E for 9 buildings.

Butler County Community College—Science, Technology and Cultural Center Interior Designer responsible for the selection and specifications of finishes and furniture including auditorium seating and stage gear. The Science, Technology and Cultural Center is an award-winning facility by the American Association of School Administrators.





YELLOW CREEK STATE PARK BEACH REHABILITATION PROJECT

BRUSH TOWNSHIP, PENNSYLVANIA

DRS was hired by the PA Department of Conservation and Natural Resources to complete an extensive renovation of the recreational beach at YCSP. Working with Klavon Design Associates, reconfiguration of the lakeside area including the sand beach from below the low-tide waterline and a central landscape of native grasses and pedestrian paths bounded by renovated parking areas and existing woodlands. New structures designed and built included restroom facilities, an event pavilion and two play areas for children of different age groups.

SERVICES PROVIDED

Architectural Design
Project Management
Construction Administration





NEMACOLIN WOODLANDS RESORT & SPA - SUNDIAL LODGE

FARMINGTON, PENNSYLVANIA

DRS designed the 28,000 SF Sundial Lodge at Nemacolin Resort and Spa. The project began as the design of a ski lodge, but the project goals changed, and it became the design of a four-season center for resort outdoor activities, including a full-service restaurant. The timeline, however, remained the same. The Lodge was conceived, constructed, and occupied in less than eight months and was completed within



The architectural design approach was to create a functional space that felt like an extension the outdoors and mountainous environment. The facility features massive. custom-designed, Douglas fir "tree columns" and a matching exposed timber roof. This structural solution affords visitors a postcard-perfect panorama of the surrounding landscape from the top of Nemacolin's famous Mystic Mountain.

SERVICES PROVIDED

Architectural Design
Project Management
Construction Administration

SIZE

28,000 SF

CONSTRUCTION COST

Withheld by Owner

REFERENCE

Trey Matheu Managing Director Nemacolin Woodlands Resort Route 40, P. O. Box 188 Village of Farmington, PA 15437 (724) 329-8555



NEMACOLIN WOODLANDS RESORT & SPA - PARADISE POOL RENOVATION

FARMINGTON, PENNSYLVANIA

Nemacolin requested design services from DRS to help improve the crowded conditions at their most popular summertime attraction, Paradise Pool. The solution was the addition of a smaller lap pool, spa, and pavilion carved into a neighboring woodland terrace and overlooked by the larger pool eight feet above.

The new features, catering to adults, include a state-of-the-art spa / firepit, satellite bar, and restaurant servery for poolside refreshment and exclusive events. Beautifully integrated within the mature native landscape, the new pool features provide a more intimate resort experience alternative to the more active, family-oriented amenities.



The renovation project has proven to be an immediate success and has become a most popular nighttime attraction at the Nemacolin Woodlands resort.

SERVICES PROVIDED

Architectural Design Project Management Construction Administration

SIZE

1,600 SF Pavilion 25' x 50' Pool

REFERENCE

Trey Matheu Managing Director Nemacolin Woodlands Resort Route 40, P. O. Box 188 Village of Farmington, PA 15437 (724) 329-8555



OGLEBAY PARK AND RESORT, WILSON LODGE GUESTROOM ADDITION

WHEELING, WEST VIRGINIA

This four-story, 46,000 SF addition was the first new guestroom wing at Oglebay in 25 years. The addition provided 53 luxury rooms and increased the total Wilson Lodge inventory to 265 rooms.

The new addition connects to the Lodge via a bridge to the Byrd Wing, and sits high above the sloping hillside with dramatic views of Schenk Lake and the surrounding park and countryside. Two thirds of the new rooms orient to this view, with the rest of the rooms looking onto a landscaped courtyard between the addition and the Byrd Wing, formerly a parking lot. In addition to guestrooms, the project had a small portecochere, lobby, and expanded call center that processes all the guest reservations for the resort. Building materials where chosen to blend with the existing Lodge, particularly the field stone and wood siding.

All the new guestrooms were designed with minibars, exterior balconies or patios at grade, and large 5-fixture bathrooms with two sinks, separate glass-enclosed showers, and bathtubs. All the king guestrooms feature gas fireplaces. The room mix is 36 Double Queens, 8 Kings, 4 ADA accessible and 5 suites.

SERVICES PROVIDED

Architectural Design Project Management Construction Administration

SIZE

46,000 SF

CONSTRUCTION COST

\$8,720,000





102 LEEWAY STREET MORGANTOWN, WV 26505 PHONE: (304) 599-0771—WWW.ALLEGHENYDESIGN.COM

CONSULTING ENGINEERING FIRM SPECIALIZING IN STRUCTURAL & MEP DESIGN AND BUILDING DESIGN

RECREATIONAL—WV STATE PARKS—LODGES—RESORTS



Boy Scouts of America Welcome Center



Fork in the Road Diner & Eagle's Nest Lodge



Fork in the Road Diner & Eagle's Nest Lodge



Hazel Ruby McQuain Park Amphitheater, , Kayak & Bike Rental Facility, Site Walls and Stair Design & Dock Foundation

Welcome to Allegheny Design Services

Allegheny Design Services is a consulting engineering firm specializing in Structural & MEP building design and analysis. Dedicated to serving West Virginia and the surrounding region, ADS recognizes the need for reliable and full service engineering service for our clients. ADS provides all phases necessary to successfully complete a building project including: schematic design, design development, construction documents and specifications, and construction administration. Our straightforward approach provides our clients with efficient and creative solutions to their project.

Specialties—

Structural Engineering

Mechanical Engineering

Electrical, and Plumbing Engineering

Building Information Modeling

System Engineering



Cacapon Resort State Park Addition & Renovations



Canaan Valley Resort State Park





Hawk's Nest State Park CCC Museum & Shelter Restoration



DAVID R. SIMPSON, PE, SECB, MBA PRESIDENT / PRINCIPAL ENGINEER 102 LEEWAY STREET, MORGANTOWN, WV

Education:

West Virginia Institute of Technology - B.S. Civil Engineering West Virginia University - Masters Business Administration West Virginia State College - Architectural Technology Courses



Professional Registrations:

Year first registered: 1984

West Virginia, Pennsylvania, Maryland, Virginia, Florida, District of Columbia, New York, New Jersey, North Carolina, South Carolina, Georgia, Ohio, Structural Engineering Certification Board and National Council of Examiners for Engineering and Surveying

Professional Memberships:

American Society of Civil Engineers, Structural Engineering Institute, Charter Member, American Concrete Institute, American Institute of Architects – West Virginia Chapter, American Institute of Steel Construction, Inc., American Iron and Steel Institute Member, National Academy of Forensic Engineers

Professional Experience:

Responsible for strategic management, marketing, quality control, personnel development, business development, project management and design at Allegheny Design Services. Experience includes over 32 years in structural design and project management for industrial, commercial, institutional, and nuclear/chemical facilities utilizing steel, concrete, masonry, and wood. Past accomplishments include design and construction administration of health care facilities, hotels, schools, shopping centers, aircraft hangars, numerous retail facilities, and numerous forensic engineering assignments. Experience has been obtained from the following assignments:

Project Experience Includes:

Nemacolin Woodlands Sundial Lodge, Farmington, PA:

- Structural Engineer-of-Record
- New 25,000 Sq. Ft. Multi-Purpose Ski Lodge, Restaurant, Bowling Alley
- \$3 million Renovation, Completed in 2013

Hawk's Nest State Park Civilian Conservation Corp Museum & Shelter Restoration, Ansted, WV:

- Structural Engineer-of-Record
- \$Approx. 1.9 million, Completed in 2021

Cacapon Resort State Park Lodge Addition and Renovations, Berkeley Springs, WV:

- Structural Engineer-of-Record
- \$22 million, Completed 2021

Canaan Valley Resort State Park, David, WV:

- Structural Engineer-of-Record
- (2) New Guest Wings (162 Rooms), and Extensive Renovations of the Main Lodge
- 102,534 SF (Addition); 64,993 SF (Renovation); Design-Bid-Build
- \$25 million, completed in 2013

J. W. and Hazel Ruby West Virginia Boy Scout Welcome Center, Mt. Hope, WV:

- Structural Engineer-of Record
- 11,000 Sq. Ft. Timber Frame / Stone Steel Frame Welcome Center
- Winner of the 2020 AIA Awards for Excellence in Architectural Awards, New Construction
- \$17 million completed in 2017



JASON D. ROBINSON, PE VICE PRESIDENT / PRINCIPAL 102 LEEWAY STREET, MORGANTOWN, WV

Education:

West Virginia University - B.S. Civil Engineering

Professional Registrations:

Professional Engineer – West Virginia, Pennsylvania, Maryland, Kentucky, Nebraska, Mississippi and Alabama

Professional Memberships:

Member of AISC Associate Member of ASCE

Continuing Education:

WVU Steel Design—Fall 2007

AISC - Façade Attachments to Steel Frames - September 20, 2007

ASCE - Reinforced Masonry: Design and Construction - November 8, 2007

TSN - Cold-Formed Steel Seminar - Load Bearing and Curtain Wall Systems - December 4, 2008

Lincoln Electric Co. - Blodgett's Welding Design Seminar - October 13-16, 2009

Steel Camp – November 4-5, 2010

The New 14th Edition Steel Manual – October 25, 2011

ASCE-Design and Renovation of Wood Structures - October 2012

SE University multiple structural technical training webinars.

The MGI Management Institute—Successful Marketing of Engineering Services 2015

Steel Camp—March 25-28, 2015

Professional Experience:

Responsibilities include structural engineering design, construction documents, quality control and field engineering.

Experience Record:

Allegheny Design Services, LLC, Vice President / Principal

June 2007 to Present

Project Experience Includes:

Boy Scouts of America—Gene H .Yamagata Lodge, Glen Jean, WV:

- Senior Structural Engineer
- Approximately 24,770 SF Lodge Addition
- \$7 Million, Completion 2020

Hazel Ruby McQuain Park Amphitheater & Kayak & Bike Facility, Morgantown, WV:

- Structural Engineer
- Completed Spring 2020

Canaan Valley Institute (CVI) Headquarters / Educational Facility, Davis, WV

- Structural Engineer
- Design-Build
- \$6.5 Million, Completion 2009

WVU Milan Puskar Stadium Renovations, Morgantown, WV:

- Senior Structural Engineer
- North End Improvements including new concessions, restrooms, ADA access, plaza and media access
- \$40 Million, Completed 2017

OCDA Sports Complex, The Highlands, Triadelphia, WV

- Senior Structural Engineer
- New Outdoor and Enclosed Sports Facility Complex, consisting of two 116,400 total SF PEMB
- \$30 Million, Completed 2019





GARY M. (MIKE) CHANCEY, P.E., LEED AP MEP DEPARTMENT MANAGER 102 LEEWAY STREET, MORGANTOWN, WV

Education:

West Virginia Institute of Technology - B.S. Electrical Engineering

Professional Registrations:

Professional Engineer, West Virginia, Ohio, Pennsylvania, Maryland and Virginia LEED Accredited Professional

Professional Memberships:

National Society of Professional Engineers West Virginia Society of Professional Engineers American Institute of Architects - WV Chapter



Continuing Education:

2019 Commercial Buildings Energy Code Workshop - ASHRAE 90.1 - 2010 2018 LightFair International, Chicago, IL

Professional Experience:

Responsible for project management and electrical design at Allegheny Design Services. Experience includes over 30 years in electrical design and project management for industrial, commercial, residential, institutional, educational, and recreational facilities. Building system design includes lighting, site lighting, power distribution, communications, surveillance, access control, and fire protection. Past accomplishments include design and construction administration of health care, schools, municipal, sports, commercial and retail facilities.

Experience Record:

Allegheny Design Services, LLC, MEP Project Manager MSES Consultants, Project Electrical Engineer Triad Engineering Consultants, Staff Electrical Engineer Duke Power, Design Engineer June 2009 - Present August 1990 - June 2009 May 1988 - August 1990 August 1985 - May 1988

Project Experience Includes:

Experience includes estimating, design, project management, coordination, and project engineering for construction projects:

East Marion Pool Renovations, Fairmont, WV

- Electrical Engineer-of-Record
- MEP design includes new kitchen, dining, locker rooms, and restrooms.
- \$1.6 million Renovation, Completed in 2018

Doddridge County Athletic Center

- Electrical Engineer-of-Record
- A 2-story, 16,000 SF Fieldhouse and Office Building consisting, and 9,800 SF Student Athletic Building consisting of Offices, Locker Rooms, Restrooms, and open Practice Space.
- \$3.5 million, Completed in 2018

WVU Wrestling Locker Room renovation, Morgantown, WV

- Electrical Engineer-of-Record
- WVU wrestling team locker room, shower, and restroom renovations at WVU Natatorium Building.
- \$150,000.00 Renovation, Completed in 2017

WVU Percival Hall Chiller & Cooling Tower Replacement, Morgantown, WV

- Electrical Engineer-of-Record
- Replace existing chillers with (2) 300-ton absorption chillers and cooling tower.
- \$600,000.00 Renovation, Completed in 2010

Clarksburg Aquatic Center, Clarksburg, WV

- Electrical Engineer-of-Record
- \$3 million, Completed in 2012



DAVID A. COTTON, P.E., LEED AP BD+C SENIOR MECHANICAL ENGINEER PROJECT MANAGER

Education:

West Virginia Institute of Technology – B.S. Mechanical Engineering

Professional Registrations:

Professional Engineer, West Virginia, Pennsylvania, Ohio, Maryland and Virginia.

LEED AP BD+C Professional Accreditation

NCEES Record Certificate

Professional Memberships:

American Society of Heating, Refrigerating and Air-Conditioning Engineers

- Secretary Mountaineer Chapter
- Student Activities Chair West Virginia Chapter
- Government Activities Chair West Virginia Chapter

U.S Green Building Council

National Fire Protection Association

- Architects Engineers and Building Officials Chapter Member



Professional Experience:

Responsible for HVAC & plumbing design at Allegheny Design Services. Experience includes mechanical design and project management for industrial, commercial, institutional, education, and recreational facilities. Building system designs include packaged gas heating / dx cooling, split systems, VRF Systems, air distribution systems, boiler & chiller systems, VAV & VVT zone control, indoor air quality ventilation and server room cooling. Plumbing systems include sanitary, domestic water, fuel gas, and storm drainage. Implemented sustainable building design concepts, and provided construction administration to achieve LEED certification for new construction projects.

Experience Record:

Allegheny Design Services, LLC, Senior Mechanical Engineer
March-Westin Company, Project Manager
Contracting Engineering Consultants, Detailer
Special Metals, Corrosion Lab Technician
Oasis Landscaping, Landscaper
GC Services, Account Representative/Team Leader

June 2009 - Present
August 2006 - June 2009
May 2006 - August 2006
May 2005 - January 2006
May 2004 - September 2004
May 2002 - October 2003

Project Experience Includes:

East Marion Pool Renovations, Fairmont, WV

- Mechanical Engineer-of-Record
- MEP design includes new kitchen, dining, locker rooms, and restrooms.
- \$1.6 million Renovation, Completed in 2018

Doddridge County Athletic Center

- Mechanical Engineer-of-Record
- A 2-story, 16,000 SF Fieldhouse and Office Building consisting, and 9,800 SF Student Athletic Building consisting of Offices, Locker Rooms, Restrooms, and open Practice Space.
- \$3.5 million, Completed in 2018

WVU Wrestling Locker Room renovation, Morgantown, WV

- Mechanical Engineer-of-Record
- WVU wrestling team locker room, shower, and restroom renovations at WVU Natatorium Building.
- \$150,000.00 Renovation, Completed in 2017

WVU Percival Hall Chiller & Cooling Tower Replacement, Morgantown, WV

- Mechanical Engineer-of-Record
- Replace existing chillers with (2) 300-ton absorption chillers and cooling tower.
- \$600,000.00 Renovation, Completed in 2010

Clarksburg Aquatic Center, Clarksburg, WV

- Plumbing Engineer-of-Record
- \$3 million, Completed in 2012



ALEXANDER (ALEX) L. CLARKSON, P.E. ASSOCIATE ENGINEER 102 LEEWAY STREET, MORGANTOWN, WV

Education:

West Virginia University - Morgantown, WV - B.S. Mechanical Engineering

Professional Registrations:

Professional Engineer, West Virginia West Virginia Journeyman Electrician

Professional Memberships:

ASHRAE West Virginia Student Chapter

- * President for Spring 2015 semester
- * Treasurer for Fall 2014 semester



2019 - Complying with ASHRAE Standard 90.1 - 2010

Professional Experience:

Responsible for electrical design for industrial, commercial, institutional, educational, and recreational facilities. Building system design includes lighting, site lighting, power distribution, communications, surveillance, access control, and fire protection. Experiences include mechanical and plumbing system design.

Experience Record:

Allegheny Design Services, LLC, Associate Engineer
Allegheny Design Services, LLC, Staff Engineer
Allegheny Design Services, LLC, Jr. Mechanical Engineer
Allegheny Design Services, LLC, Jr. Mechanical Engineer
Allegheny Design Services, LLC, Engineering Intern
March 2015 - May 2015
Miller Engineering, MEP Engineering Intern
May 2014 - March 2015

Project Experience Includes:

Experience includes design, coordination, construction administration, and project engineer for projects:

East Marion Pool Renovations, Fairmont, WV

- Assisted in Electrical Design of Kitchen, Dining, and Restrooms.
- \$1.6 million Renovation, Completed in 2018

Doddridge County Athletic Center, West Union, WV

- Assisted in Electrical Design of 2-story, 16,000 SF Fieldhouse and Office Building, and 9,800 SF Student Athletic Building consisting of Offices, Locker Rooms, Restrooms, and open Practice Space
- \$3.5 million, Completed in 2018

WVU Locker Room Renovation, Morgantown, WV

- Assisted in Electrical Design of WVU Wrestling Team Locker Room, Shower, and Restroom Renovations at WVU Natatorium Building
- \$150,000 Renovation, Completed in 2017

Beckley Police Department Building, Beckley, WV

- Assisted in Electrical Design of 2-story, 25,000 SF Police Station consisting of Holding Cells, Interview Rooms, Evidence, Offices, Training, Wellness Room, Mat Room, Kitchen, Restrooms, and Locker Rooms
- \$5 million, Completed in 2018

Boy Scouts of America Rex W. Tillerson Leadership Center, Glen Jean, WV

- Assisted in Electrical Design of 15,000 SF Visitor's Center with Lecture Hall, Classrooms, Lobby, and Restrooms
- \$4 million, Completed in 2019

Dominion Energy Transmission Office, West Delmont, PA

- Assisted in Electrical Design of 2-story, 18,000 SF LEED Silver Office Building
- \$5 million, Completed in 2018





Nemacolin Woodlands Sundial Lodge Farmington, PA







PROJECT ARCHITECT: DRS Architects, Pittsburgh, PA
STRUCTURAL ENGINEER: Allegheny Design Services, LLC, Morgantown, WV
CONTRACTOR: Martik Brothers, Inc., Finleyville, PA

PROJECT SCOPE:

• 25,000 Sq. Ft. Multi-Purpose Ski Lodge

Restaurant

• Bowling Alley

PROJECT VALUE: \$3 Million





Hawk's Nest State Park Civilian Conservation Corps Museum & Shelter Restoration Ansted, WV









PROGRESS PHOTOS: The windows have been restored and replaced at the Hawks Nest CCC Museum in Ansted, WV. Photos /Courtesy of the Mills Group, LLC, Morgantown, WV

STRUCTURAL ENGINEERS: CONTRACTOR:

Allegheny Design Services, LLC, Morgantown, WV Danhill Construction Company, Gauley Bridge, WV

PROJECT SCOPE:

 Hawk's Nest State Park CCC Museum and Shelter Renovation at Ansted.

PROJECT VALUE: Approx. \$1.9 Million





Cacapon Resort State Park Lodge Addition and Renovations Berkeley Springs, WV













STRUCTURAL ENGINEER: CONTRACTOR:

Allegheny Design Services, LLC, Morgantown, WV Paramount Builders, Inc., St. Albans, WV

PROJECT SCOPE:

Located in the eastern panhandle of West Virginia, Cacapon Resort State Park is available for both family vacations and business retreats, offering access to golf, lake, and camping activities. The facility functions as the main lodging and meeting center of the resort and offers a mix of hotel rooms and suites, and a conference center. The new addition provides an additional 79 guest rooms, swimming pools, new dining fa-

cilities and commercial kitchen, and a spa and fitness area. Additional renovations to the resort includes golf course upgrades, as well as water and wastewater treatment upgrades. This is a Design-Bid-Build Project.

PROJECT VALUE: \$22 Million

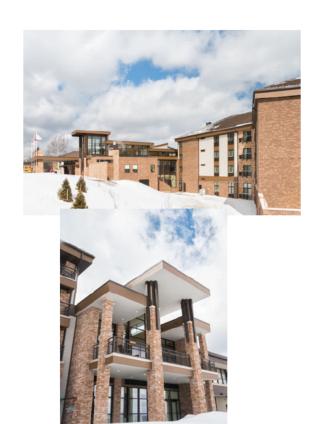




Canaan Valley Resort State Park Davis, WV







STRUCTURAL ENGINEER: CONTRACTOR:

Allegheny Design Services, LLC, Morgantown, WV Harbel, Inc., Cumberland, MD

PROJECT SCOPE:

• Construction of Two Brand New Guest Wings (162 Rooms)

• Extensive Renovations of the Main Lodge

• 102,534 SF (Addition); 64,993 SF (Renovation); Design-Bid-Build

PROJECT VALUE: \$25 Million

PROJECT COMPLETION: Fall 2013





J. W. and Hazel Ruby West Virginia Boy Scout Welcome Center Mt. Hope, WV















STRUCTURAL ENGINEER: Allegheny Design Services, LLC, Morgantown, WV DCI / Shires, Inc., Bluefield, WV

PROJECT SCOPE:

- Winner of the 2020 AIA Awards for Excellence in Architectural Awards, New Construction
- 11,000 Sq. Ft. Timber Frame / Stone Steel Frame Welcome Center
- 4 Stand Alone Rest Room Buildings
- Inside, the building includes seating areas, retail and exhibit space, a climbing wall and restroom facilities accessible from both inside and outside. The site provide parking for more than 12,000 vehicles.

PROJECT VALUE: \$ 17 Million





Hazel Ruby McQuain Park Amphitheater Site Walls and Stair Design & Dock Foundation Hazel Ruby McQuain Park







PROJECT ARCHITECT: STRUCTURAL & MEP ENGINEERS: CONTRACTOR:

Allegheny Design Services, LLC, Morgantown, WV March-Westin Company, Inc., Morgantown, WV

PROJECT SCOPE:

Design of the Steel Amphitheater

 Design of Concrete site Retaining Walls and Site Stairs for both the Walnut Street Landing and the Amphitheater.

 Design of Ramp, Site Retaining Walls & Site Stairs at the Walnut Street location

 Design of Site Retaining Walls, Seating and Site Stairs at the Amphitheater.

PROJECT COMPLETION: Spring 2020



Evansdale Towers Food Service Renovations Morgantown, WV













MEP & STRUCTURAL ENGINEERS: Allegheny Design Services, LLC, Morgantown, WV CONTRACTOR: Sodexo Construction, Inc., Gaithersburg, Maryland

PROJECT SCOPE:

 A 13,470 SF Kitchen and Dining renovation of existing Towers Dining Hall located on the Evansdale Campus of West Virginia University.

PROJECT VALUE: 1.5 Million





Mountainlair Hatfield's Dining Renovations Morgantown, WV







MEP & STRUCTURAL ENGINEERS: CONTRACTOR:

Allegheny Design Services, LLC, Morgantown, WV Sodexo Construction, Inc., Gaithersburg, Maryland

PROJECT SCOPE:

- The renovation involved a total area of approximately 9,700 square feet.
- The space was transitioned from retail to a residential dining hall and included complete renovation of the serving and seating areas and included expansion of dining concepts with several new action stations.
- The space was expanded to increase the seating capacity by approximately 15 percent.
- A new dish return accumulator and dishwashing area was provided within the space to eliminate the need to transport dishware to the basement level for washing.
- The project was completed within a 3-month construction schedule and below budget.

PROJECT VALUE: 1.5 Million









Paul Walker, AIA, President Paradigm Architecture, Inc. 2223 Cheat Road, Suite 300 Morgantown, WV 26508 (304)284-5015

Richard T. Forren, AIA, NCARB, Senior Principal The Omni Associates - Architects 1543 Fairmont Avenue, Suite 201 Fairmont, WV 26554 (304)367-1417

April Messerly
West Virginia University
Associate Athletic Director/Facilities & Operations
PO Box 0877
Morgantown, WV 26507
304-293-3056



Timothy H. Kinder, PLS, CFM – Director of Survey, Director of Operations WV



EDUCATION

Associate of Science, Land Surveying, Glenville State College Regents Bachelor of Art, Marshall University

PROFESSIONAL EXPERIENCE

Mr. Kinder oversees all survey projects and leads all operations out of Stahl Sheaffer's West Virginia locations. Mr. Kinder is responsible for driving project schedules, managing project budgets, leading client/sub-consultant coordination, and overseeing the technical design and survey of project teams. He is responsible for performing reviews of all survey projects, directing staff surveyors and technicians, and managing client communication and project progress. Mr. Kinder has over 27 years of experience in boundary and topographical surveying, subdivision and land development planning, oil and gas upstream and midstream development planning, and construction survey layout. Mr. Kinder is a certified Floodplain Manager and Professional Land Surveyor in West Virginia, Rhode Island, and Connecticut.

REPRESENTATIVE PROJECTS

- State of West Virginia Capitol Building, Charleston, WV Project Manager for the 3D scan and modeling of the state capitol dome for the preparation of drawing plans for the use during architectural renovations.
- Lots 10, 11 and 12 Village at Sleepy Hollow, Morgantown, WV Project Manager for the 3D House Scan (exterior), Topographic Survey and Property Boundary Survey for a residential property.
- I-64 Merritt's Creek Interchange, WVDOH, Barboursville, WV Survey Project Manager for
 an interstate widening and upgrade design for I-64. Mobile LiDAR was used to map 3.3
 miles of roadway plus ramps and side roads, document underground utilities and produce
 3D scans for two bridges. Stahl Sheaffer also conducted supplemental topographical
 surveying and provided deed and utility research, post construction monumentation, and
 settlement survey. The total roadway scanned was 16.1 miles including ramps and side
 roads.
- Greenbag Road Improvements, WVDOH, Morgantown, WV Survey Project Manager for widening and intersection improvements along 1.1 miles of Greenbag Road, including 3D LiDAR scanning, design, right-of-way development, public involvement, and all required environmental work needed for construction.
- Beechurst Avenue PIE Study, WVDOH, Morgantown, WV Survey Project Manager for survey, mobile LiDAR, survey control, deed research and plotting, landowner questionnaires, and right of entry.
- Confidential Natural Gas Transmission Client, Various Counties, WV Survey Manager for 3D survey and base mapping of approximately 150 miles of rural roads spread across 10 counties in West Virginia. Mr. Kinder was responsible for the oversight and scheduling of the survey crew and technicians for providing topographic mapping, certified plat creation for new right of way, and easement acquisitions.



- Washington Street Streetscape Project, Charleston, WV Project Surveyor for streetscape project which included decorative street lighting, brick paver sidewalks, and amenities including decorative signage. Mr. Kinder assisted in survey base mapping, horizontal and vertical control establishment, and utility verification.
- Route 60 Repaving/Reconstruction Project, Kanawha County, WV Project Surveyor for a 2.5-mile repaving/reconstruction project. Mr. Kinder was responsible for construction layout and calculations for portions of Route 60 that were reconstructed due to traffic volumes, drainage problems, etc.
- Route 34 Repaving/Reconstruction Project, Putnam County, WV Project Surveyor for a 1.2-mile repaving/reconstruction project. Responsible for construction layout and calculations for portions of Route 34 that were reconstructed due to traffic volumes.
- Laser Scanning for Building Conversion, Boas Street, Harrisburg, PA Stahl Sheaffer provided laser scanning to convert a former church into a multi-family residential dwelling in Harrisburg, PA. As a subconsultant to a local architect, Stahl Sheaffer used a FARO Focus 330X HDR phase-based laser scanner to acquire high-resolution 3D point cloud and 360-degree imagery of the interior and exterior of the existing 7,658-SF historic building at 260 Boas Street in Harrisburg, PA. Interior scanning included all three levels, including all rooms, closets, and hallways. Exterior scanning encompassed as much of the exterior of the building as possible including windows, doors, and protrusions. Stahl Sheaffer processed and registered the scans into a single high-resolution colorized point cloud to document the interior and exterior of the building, which will used for 3D modeling and plan generation.
- Robert Quature, Washington County, PA Served as Project Manager for a land development project consisting of a full site topographical survey and development feasibility study for a proposed "mini storage" complex.
- Club Julian Parking Lot Expansion, Allegheny County, PA Survey Project Manager for the topographic survey of the Club Julian Fitness building and parking lot for proposed renovations and parking lot expansion.
- Waterdam Church Parking Lot Expansion Project, McMurry, PA Project Manager for the topographic survey of the Waterdam Church building and parking lot for proposed parking lot expansion.

CREDENTIALS

- Professional Surveyor:
 - State of West Virginia License #1969
 - State of Rhode Island and Providence Plantation License #1974
 - State of Connecticut License #70280
 - Commonwealth of Kentucky License #4225
 - Commonwealth of Massachusetts License #56161
- Certified Floodplain Manager License # US-13-06879
- Association of Floodplain Managers (ASFM), Member
- West Virginia Society of Professional Surveyors, Member
- Pennsylvania Society of Land Surveyors, Member
- National Society of Professional Surveyors (NSPS), Member
- American Association of Drilling Engineers, Member



Mark J. Haefner, P.E. – Senior Project Manager, Land Development



EDUCATION

Bachelor of Science, Civil Engineering, West Virginia University

PROFESSIONAL EXPERIENCE

Mr. Haefner is responsible for the supervision, management and implementation of Stahl Sheaffer's land development projects. He has 25 years of experience, with extensive expertise in site evaluation and layout, utility design, erosion and sedimentation control plans, permitting, feasibility studies, stormwater management design, and drainage design. Mr. Haefner is also responsible for the coordination of projects through government and planning commission review processes, conducting Quality Assurance/Quality Control (QA/QC) reviews, project administration, review and approval of shop drawings, and peer review. Additionally, he has 15 years of experience serving as a municipal engineer, performing duties such as the review of subdivision and land development plans, providing consultation, and preparing reports for municipal projects. Project experience includes commercial, residential, retail, education, healthcare, corporate, industrial, institutional, recreation, government, and civic facilities. A few project examples follow:

- Millbrook Marsh Nature Center & Parking Lot Projects, Surveying & Site Engineering,
 Centre County, PA Project manager responsible for civil engineering services for the 12-acre
 Millbrook Marsh Nature Center. Completed schematic site plan and required documentation
 for a zoning variance application to the Township for the Welcome Center project, which
 required updated surveying to complete a site and utility plan for a proposed hike/bike
 pedestrian path, and utility connections for the continued development of the Nature Center.
 This project included the construction of a parking lot, access drives, and related stormwater,
 zoning, and subdivision and land development ordinances. A DEP NPDES permit and an
 Erosion & Sedimentation Control plan were also required. Stahl Sheaffer also
 provided construction administration services.
- Wheeling Park High School, Wheeling, WV Site civil engineer responsible for the design of
 site improvements associated with a security vestibule addition to the main entrance and
 additions to the wrestling and art storage rooms. Site improvements included new concrete
 stairs and ADA access to the main entrance addition, ADA parking, and stormwater
 conveyance design to collect and convey runoff from the additions to the existing on-site
 conveyance facilities.
- Woodsdale Elementary School, Wheeling, WV Site civil engineer responsible for the design
 of site improvements associated with a security vestibule addition to the main entrance, an
 addition to the cafeteria, and the bus drop-off area. Site improvement included ADA
 improvements to both the main entrance and the cafeteria addition, additional vehicle parking
 and access improvement to the bus drop-off / pick-up loop.
- Gore Elementary School Renovation, Harrison County, WV Site civil engineer responsible for the design of site improvements associated with a security vestibule addition to the main entrance, a two-story classroom addition, and renovation to the interior of the facility. Site improvement included concrete walks to provide access to the building addition, stormwater conveyance facilities, a new water service for both domestic and fire, new sanitary sewer services laterals to accommodate the classroom addition, additional restroom facilities and renovation to the cafeteria.



- Lebanon VA Medical Center, Lebanon County, PA Civil Engineer for the site and civil engineering for the design and permitting of the new 16,000 SF behavioral health and primary care building. Site survey has been completed, and this project is currently in progress.
- Warriors Mark Township Engineer, Huntingdon County, PA Responsible for the review of all
 plan submissions for conformance with subdivision and land development, stormwater
 management and floodplain ordinances, including coordination with other Township staff
 (Solicitor, Secretary, Zoning Officer, Sewage Enforcement Officer, etc.) and county, state, and
 local regulatory agencies. Also responsible for inspection and acceptance of public
 improvements including stormwater management facilities and public streets.
- Penn State Beaver Stadium Elevator / Lobby Addition, University Park, PA Project Engineer
 for site design, municipal coordination, and permitting for an elevator / lobby addition to
 Beaver stadium and new EMS parking lot. Project included site layout and grading, design of
 stormwater collection and conveyance facilities, erosion control plans, and construction
 administration. This project has not yet gone to construction as client put the project on hold.
- Pine Hall Development, Centre County, PA Responsibilities included master planning for a 160-acre traditional town development, including residential, commercial, and office components. Master planning efforts have included survey, stormwater management assessment, roadway design, sanitary sewer design, utility coordination, and municipal coordination.
- Restek Corporate Campus Distribution Center, Manufacturing Building, and Fitness Center, Centre County, PA – Project included site design services for manufacturing building, distribution center, and fitness center on the 22-acre Restek Corporate Campus in the Penn Eagle Industrial Park. Infrastructure included site design, additional parking, utility extensions, etc. Site related service include grading, stormwater management, landscape, lighting, utility coordination, erosion and sediment control, permit applications, and approval coordination.
- The Oaks at Pleasant Gap, Pleasant Gap, PA Project Manager. Managed site engineering for a new 5,600 SF community center and 28 age restricted cottages, including the extension of the internal road network to access the cottage on the campus of Allegheny Lutheran Social Ministries – The Oaks at Pleasant Gap. Site-related engineering services included, stormwater management design, roadway design, sanitary sewer design, utility coordination, regulatory permitting, and municipal coordination.
- Fulton County Medical Center, McConnelsburg, PA Project Manager. Managed master
 planning for the expansion of the medical center campus and site engineering for Phase 1 –
 the Center for Advanced Medicine. Phase 1 included a 69,500 SF, two-story medical office
 building, relocation of the main access to the hospital, a new patient drop-off, a pharmacy
 drive-thru, additional site parking, and relocation of the helipad. Site design services included
 site layout and grading, stormwater management, landscape, lighting, utility coordination,
 erosion and sediment control, permit applications, and approval coordination. Est.
 Construction Cost: \$20 million.

CREDENTIALS

Professional Engineer (P.E.):
 2003, WV

American Society of Civil Engineers

Page | 2 Site | Survey | Traffic | Environmental | Structures | Inspection





Jason Reed - Environmental Manager

PROFESSIONAL EXPERIENCE

Jason Reed is Stahl Sheaffer's Manager of Environmental Services. He brings 24 years of natural resource planning, environmental consulting, and permitting experience. As a project manager and environmental scientist, he coordinates with clients and all applicable regulatory and resource agencies to gather the necessary data to effectively manage the completion of all environmental clearance and permitting requirements for projects. His specialties include wetland investigations and delineations, waterways encroachment and obstruction permitting, specification of revegetation material; wetland, stream, and terrestrial habitat creations and restorations; stream surveys, Natural Channel Design, erosion and sediment (E&S) pollution control design, post-construction stormwater best management practices design, NEPA documentation, and threatened and endangered plant surveys.

- PA Department of Conservation & Natural Resources, Oil Creek State Park Bike Trail Extension Feasibility Study, Venango County Project Manager for the incorporation of trail, bridge and environmental permitting cost estimating and preliminary design considerations for multiple trail alignments into a feasibility report. Responsibilities included performing a cursory wetland and waters review of 3.75 miles of existing footpaths and undeveloped valley bottomlands and hillslopes. The water resources were field sketched and described for incorporation into the report. Additional information collected and presented in the report included threatened and endangered species concerns, waterways and wetland impacts permitting guidance and needs, physical environmental constraints and cultural historic resource concerns.
- Centre County Board of Commissioners, Bellefonte to Milesburg Trail Feasibility Study,
 Centre County, PA Environmental Scientist Task Manager responsible for managing the
 completion of cursory environmental resource reviews and permitting cost estimating for
 incorporation into a feasibility report. Responsibilities included performing a cursory wetland
 and waters review covering 2.5 miles of existing footpaths, active railbed corridor and
 undeveloped valley bottomlands. The water resources were field sketched and described for
 incorporation into the report. Additional information collected and presented in the report
 included historic and cultural resource concerns, farmland concerns and physical
 environmental constraints.
- Central Park Development, City of St. Mary's, Elk County, PA Project Manager responsible for managing site design and construction plan completion. Responsibilities included completing and securing NPDES permit application for an expired permit that was not developed and completing a Chapter 105/404 Joint Permit Application (JPA) for a new pedestrian bridge over Elk Creek. The site was an Act 2 contaminated site that was remediated. The project included design of sidewalks, bench bump-outs, a water feature, layout of streetlamps, a fitness area, and an amphitheater plus allowance for 10 X 10 pop up tent spaces for an annual festival. An NPDES Major Modification and an amendment to the JPA was completed two years after permit issuance. The modification required review of old paper copies of past plans and narratives and coordination with PADEP. The expired permit documents were successfully incorporated into the new permit application saving the client significant design and permitting cost. The modification and amendment were required to expand the limit of disturbance for the demolition of two buildings in the floodplain and stabilization of streambank post-demolition.
- Bradford Regional Airport Multi-Tenant Building, Lafayette Township, McKean County, PA –
 Environmental Specialist responsible for coordinating and completing required tasks
 associated with obtaining a general NPDES permit for the proposed building. Tasks included



preparation of an E&S pollution control plan and post-construction stormwater management plan. An infiltration basin and rain garden best management practices were used to remove the increased runoff. Additional tasks included performing a wetland identification and delineation, threatened and endangered plant survey (American feverfew, *Parthenium integrifolium* and Queen of the Prairie, *Filipendula rubra*), and required infiltration testing on 4 acres of undeveloped land for the building site.

- New Assisted Living Facility, Brookville, Jefferson County, PA Environmental Specialist
 responsible for coordination and preparation of an individual NPDES permit and wetland
 delineation. The project included the addition of two buildings and an access road to the
 existing complex. Project features included the use of an infiltration basin, small landscape
 island rain gardens, and riparian enhancement best management practices to gain agency
 approval. Tasks included infiltration testing; E&S plan completion; postconstruction
 stormwater management plan completion; and wetland delineation and report preparation.
- Stoneridge Condominiums, City of DuBois, Clearfield County, PA Environmental Specialist responsible for coordination and preparation of a general NPDES permit and Joint 105/404 waterways encroachment permit. Performed a wetland identification and delineation on approximately 13 acres of undeveloped meadow, scrub-shrub land and on existing golf course. The project involved development of five residential condominium buildings totaling 20 living units. Additional tasks to complete the permit applications included preparation of an E&S pollution control plan, a postconstruction stormwater management plan, an environmental assessment, a wetland functional assessment utilizing the U.S. Army Corps of Engineers Functions and Values Assessment "A Descriptive Approach," and a wetland mitigation design plan. The project required the design of 0.66 acres of wetland mitigation due to unavoidable impacts to 0.44 acres of palustrine emergent and palustrine scrub-shrub wetland. Tasks performed for the mitigation design included site reconnaissance; grading, planting, and E&S plans for construction; planting material research and selection; hydrology and soil analysis consisting of test pit excavation and data logging; and drainage area calculations.
- DCNR Bridge Replacements, Clearfield and Beaver Counties, PA Environmental Scientist
 responsible for design of the erosion and sedimentation control and plan for the replacement
 of three small bridges located within state forest and state parks. Also responsible for
 supervising other staff in compiling the necessary plan components.
- Carlson General Permit 2 Boat Dock Permitting, DuBois, PA, Clearfield County, Scott Carlson
 Environmental Scientist and project manager responsible for completion of a PADEP General
 Permit 2 for a boat dock on a private lakeshore in a housing community.

EDUCATION & CREDENTIALS

- Bachelor of Science, Environmental Resource Management, The Pennsylvania State University
- DCNR Wild Plant Management Permit, 2020
- Phase I and Phase II Environmental Site Assessments for Commercial Real Estate 2014
- Mine Safety and Health Administration (MSHA), Experienced Miner 2013
- USDA/NRCS 2010 Field Indicators of Hydric Soils in the U.S. 2011
- DEP Stormwater Best Management Practices Manual, 2007
- NEPA and the Transportation Decision Making Process, 2005
- Advanced Natural Channel Design (Level 4 Rosgen Equivalent), 2003
- U.S. Environmental Protection Agency Watershed Training Certificate, 2001
- Endangered Species Act Workshop, 2002
- Introduction to Stream Functions and Processes (Level 1 Rosgen Equivalent), 2002
- Identification of Grasses, Sedges, and Rushes, 2000
 Wetland Delineator Certification Preparatory Training Course, 1999



- Owner:
 PA Department of Conservation and Natural Resources (DCNR)
- Services:
 Construction Inspection
- Year Completed: 2021

Hyner Run State Park Maintenance Building Construction Inspection

PA Department of Conservation and Natural Resources (DCNR), Hyner Run State Park, Clinton County, PA

Stahl Sheaffer provided construction inspection for the demolition of existing building and construction of a new 5,000 sf maintenance building with ICF reinforced concrete walls and wood frame construction within Hyner Run State Park. The project included mechanical, plumbing, and electrical systems, including a solar array system. Hyner Run carves a small valley from the nearby mountains and is surrounded by the Sproul State Forest.

Construction inspection duties included inspection of excavation, foundations, placement of ICFs, reinforcing steel and concrete, wood framing, insulation, drywall and finishes, electrical systems, plumbing systems, and mechanical systems. Additional tasks included performing measurement and calculation of quantities for payments to contractor.









- Owner:
 PA DCNR Bureau of Facility
 Design & Construction
- Services:
 - Construction Management
 - Construction Inspection
- Size: 41 Construction Inspection Work Orders
- Year Completed: 2016 - Ongoing





stahlsheaffer.com

DCNR Construction Management & Inspection

PA Department of Conservation & Natural Resources (DCNR) Open End Contract FDC-500-809, State-Wide

Stahl Sheaffer holds an open-end contract to perform construction management on various bridge, site, and building projects on state forest and state park lands. Inspectors are responsible for:

- Attending preconstruction conferences and regular job conferences with the Department and contractor for each project.
- Keeping records.
- Documenting construction work.
- Providing site inspection.
- Preparing current and final estimates for payment to the contractor.
- Assisting the Department in obtaining compliance with labor standards, safety and accident prevention, and equal opportunity provisions of the contract.
- Performing other duties as required.
- Assembling all pertinent construction data into a manual for submission on all bridge construction projects.

Following are representative examples:

- Medix Run Bridge Replacement Inspection of demolition of existing steel I-beam bridge on stone masonry abutments with a 15'-2" clear span, to be replaced with a precast reinforced concrete box culvert and precast concrete end sections with an 18 foot clear roadway width.
- Laurel Run Box Culvert Inspection of demolition of existing steel beam bridge
 with nail laminated deck to be replaced with precast reinforced concrete box
 culvert and precast concrete end sections with 18' clear roadway width.
- Mix Run Box Culvert Inspection of demolition of existing structure 3'-0" x 4'-0" elliptical metal pipe to be replaced with precast reinforced concrete box culvert and precast concrete wingwalls.
- Reeds Gap State Park Inspection of all general construction work consisting of site work, leakage testing, excavation, leakage testing, construction, demolition of existing structures, and performance testing.



Stahl Sheaffer is also performing bridge design and NBIS inspections under open-end contracts for DCNR.



- Owner: Centre Region Parks & Recreation
- Services:
 - Land Development
 - Surveying
 - Construction Stakeout
 - Permitting
 - Construction Administration
- Year Completed: 2017

Millbrook Marsh Nature Center & Parking Lot Projects

Centre Region Parks & Recreation, Millbrook Marsh Nature Center, State College, Centre County, PA

Stahl Sheaffer provided land development and surveying services on several projects for the 12-acre Millbrook Marsh Nature Center.





The Welcome Center project required updated surveying to complete a site and utility plan for a proposed hike/bike pedestrian path, and utility connections for the continued development of the Nature Center. Stahl Sheaffer completed the schematic site plan and required documentation for a zoning variance application to College Township.

Stahl Sheaffer previously provided site engineering, topographic survey, and land development plan submissions for parking accommodations in 2013. This project included the construction of a parking lot, access drives, and related stormwater, zoning, and subdivision and land development ordinances. A DEP NPDES permit and an Erosion & Sedimentation Control plan were also required. Stahl Sheaffer provided construction administration services.

Additionally, Stahl Sheaffer provided full construction stakeout for this project, including parking areas, rain gardens, and stormwater facilities. During construction, a deeper than anticipated depth of topsoil was encountered. Stahl Sheaffer quickly revised the plans as construction continued without interruption. The project was successfully completed prior to several scheduled events at the Nature Center.

- Owner: Centre Region Parks & Recreation
- Services:
 - Site Design
 - Stormwater Analysis
 - Sanitary Service
 - Grading
 - Traffic Impacts
- Size: 51 Acres
- Total Project Cost: \$2.2 Million
- Year Completed: 2017

Oak Hall Regional Park Site Design

Centre Region Parks & Recreation Authority, Centre County, PA

Stahl Sheaffer Engineering provided the land development for the creation of a master plan for Oak Hall Park, a new regional park in State College. Park facilities include four diamond fields, a restroom and concession building, a perimeter walking trail, parking areas, plantings, and benches. A future phase will include a playground, shelters, and dog park.

Stahl Sheaffer's specific roles included analysis of stormwater, sanitary service, grading, traffic impacts for the proposed improvements to the site, as well as all zoning and municipal approvals. The project is situated at an elevation several hundred feet above the wooded surrounding area, and therefore required a unique approach for stormwater management, including the incorporation of rain gardens and landscaped drainage swales. All stormwater and drainage features are functioning well after several years of park use.







stahlsheaffer.com



References

Centre Region Parks & Recreation Authority, Centre County, PA

Pam Salokangas, Director, Centre Region Parks & Recreation Authority | 2643 Gateway Drive #1,
 State College, PA 16801 | O: 814.231.3071 F: 814.235.7832 | psalokangas@crcog.net

Department of Conservation and Natural Resources, (DCNR)

 James M. Long, P.E., Division Chief, Bureau of Facility Design and Construction, Dams, Bridges and Roadways Engineering Division, 400 Market Street, 8th Floor, Harrisburg, PA 17101 | Office: 717.783.3333 | Cell: 717.783.3333 | jameslong@pa.gov





Environmental Engineeringand Sciences

CEC conducts environmental assessments, site investigation/remediation, and other general compliance auditing and support services.

CEC provides environmental services for a wide range of industries and businesses, including power plants, mining facilities, waste processing facilities, oil & gas development and processing sites, industrial manufacturing sites, law firms, and real estate companies.

PHASE I & II ENVIRONMENTAL SITE ASSESSMENTS

With a focus on proposed land use and a practical evaluation of likely exposure pathways, CEC conducts environmental site assessments of properties to identify environmental liabilities and determine if past or adjacent land uses have resulted in environmental impacts. Assessments are designed to meet industry standards, such as ASTM and AAI, as well as client-specific and state-mandated standards when regulatory closure is the ultimate goal.



Site investigations are performed to evaluate whether impacts to environmental media are present or to further study the extent and degree of known impacts. CEC specializes in groundwater modeling; soil, waste and water sampling; human and ecological risk assessment; and regulatory negotiations.

SITE REMEDIATION AND BROWNFIELDS REDEVELOPMENT

CEC has successfully transitioned dozens of idle industrial sites through the redevelopment/re-use process. Licensed professionals complete assessments and remediation, in many cases obtaining liability protections available through state voluntary remediation programs. CEC engineers and environmental specialists work together to provide practicable solutions that often allow for reuse of a property using limited engineering and institutional controls.

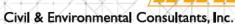
SITE REMEDIATION AND GROUNDWATER REMEDIATION

CEC applies knowledge of groundwater flow, groundwater chemistry and contaminant transport to evaluate and design remedial alternatives for contamination problems. Capabilities include groundwater extraction and treatment using methods such as air stripping, steam stripping and carbon adsorption, as well as separate phase extraction of both light and dense freephase liquids. In-situ groundwater remediation experience includes chemical oxidation, natural and enhanced bioremediation, and phytoremediation. CEC is experienced with the physical manipulation of groundwater flow, including capture systems and physical barriers such as slurry walls, infiltration trenches and impermeable caps.

COMPLIANCE AUDITING AND REGULATORY COMPLIANCE/ LIABILITY RESERVE DEVELOPMENT SUPPORT SERVICES

Compliance audits are designed to help prepare and implement cost-effective solutions and improve systems for maintaining and tracking regulatory compliance. Audits often include liability assessments and reserve estimates, and regulatory compliance assessments to support due diligence and acquisitions.





Environmental Engineering and Sciences

COMPLIANCE SUPPORT - ENVIRONMENTAL HEALTH & SAFETY MANAGEMENT SYSTEMS

CEC assists with creation, implementation and ongoing support of Environmental Management Systems (EMS) and Occupational Health and Safety Management Systems (OHSMS). Services include: identifying EHS impact of activities, operations, processes, products and services; identifying and evaluating applicability of state, federal and local regulations; identifying responsibilities and resources for successful EMS or OHSMS implementation; and developing and auditing EMS/OHSMS programs.

COMPLIANCE SUPPORT – CLEAN WATER ACT (CWA)

CEC assists clients across many market sectors with various CWA issues, including: NPDES individual discharge permit acquisition and renewal applications; NPDES stormwater and general permit acquisition and renewal applications; Storm Water Pollution Prevention Plan (SWPPP) preparation; routine Discharge Monitoring Report (DMR) completion and submittal; wastewater treatment plant design and upgrades to meet permit limits; and assistance with design/implementation of Best Management Practices (BMPs).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)

CEC assists clients in complying with RCRA obligations, including: waste characterization evaluations and support; waste management planning and evaluation of beneficial use/recycling opportunities; design of hazardous waste storage areas and containment buildings; implementation of weekly hazardous waste inspection programs; providing RCRA training for personnel involved with management of hazardous waste; preparation of facility RCRA Contingency Plans; completion of biennial hazardous waste reports; and completion of state residual waste (non-hazardous) biennial reports.

EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW (EPCRA)

CEC assists clients in complying with annual filings of emergency and hazardous chemical inventory reports (Tier II) and Toxic Release Inventory (TRI) Reports (Form A/R). Services include: rule applicability and Tier II/Form R reporting threshold evaluations; review of safety and chemical data sheets for completeness; preparation of Tier II reports from chemical inventory information; and calculation of chemical releases and preparation of TRI Reports.



Principal



23 YEARS OF EXPERIENCE

EDUCATION

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

REGISTRATIONS

Registered Landscape Architect

- CO
- WV

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

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.

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



Principal

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.

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.

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.

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



Principal

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.

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.

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.

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.

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.

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.

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.

* Work performed prior to joining CEC



Principal

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

Jacqulyn D. Kester

Principal



15 YEARS OF EXPERIENCE

EDUCATION

University, 2005

B.S., Environmental Sciences, West Virginia

Ms. Kester is the Ecological Services Lead for CEC's Bridgeport, West Virginia Office. She has extensive experience in the attainment of stream and wetland data for various baseline reporting and permitting projects. She is knowledgeable of permitting at the local, state, and federal levels for temporary and permanent aquatic resource impacts associated with energy infrastructure and site development projects. Jacqulyn is a project manager with a proficiency in managing ecological projects while supervising a team. Ms. Kester's project management experience includes proposal preparation and

cost estimate of billable hours. She manages multiple projects concurrently according

PROJECT EXPERIENCE

FirstEnergy Service Company, West Virginia

to the terms and conditions of proposals.

Role: Principal

Served as client contact for the preparation of proposals and oversaw invoicing and budget control for line upgrades and new connections. Provided overall coordination with FirstEnergy and maintained regular and consistent communication pertaining to the planning and execution of projects. Oversaw the preparation of and performed quality reviews of nationwide permit packages, stream activity applications, and agency coordination for Section 7 consultation under the Endangered Species Act (ESA) and Section 106 consultation under the National Historic and Preservation Act (NHPA). Worked in tandem with FirstEnergy to development a brochure on environmental permitting and compliance for field use by their employees.

American Electric Power, West Virginia

Role: Ecological Project Manager

Managed the preparation of a Joint 404/401 Individual Permit application for the Mitchell Excess Soil Disposal Area, which included permanent impacts to 3,023 linear feet of streams and 0.025 acre of wetlands. Performed quality reviews of the permitting documents and field data collection. Facilitated a permittee responsible mitigation project to compensate for impacts. Lead multiple agency meetings to discuss project purpose and need.

CNX Midstream Operating Company, LLC, West Virginia

Role: Principal

Served as client contact for the preparation of proposals and oversaw invoicing and budget control on numerous well connects, laydown yards, and compression facilities. Provided overall coordination with CNXM and maintained regular and consistent communication pertaining to the planning and execution of projects. Maintained a spreadsheet to provide weekly update reports via email to the CNXM project team detailing field work progress, environmental report development progress, permit development and agency processing progress, receipt of clearances, permits, upcoming work, and outstanding issues. Ms. Kester managed the natural resource permitting activities for various midstream projects. Oversaw the preparation and performed quality reviews of nationwide permit packages, stream activity applications, and agency coordination letters for Section 7 consultation under the ESA and Section 106 consultation under the NHPA. Coordinated and managed sub-contractors for cultural resources studies with the West Virginia Division of Culture and History (WVDCH).



Section 404/401 Clean Water Act Permitting

Section 7 Consultation under the **Endangered Species Act**

Section 106 Consultation under the National Historic Preservation Act

Aquatic Resource Delineations



Jacqulyn D. Kester

Principal

Pope Properties, LLC, West Virginia

Role: Ecological Task Manager

Coordinated field efforts for completion of stream and wetland delineations and stream functional assessments for a real estate development. Performed quality reviews of data collection and report preparation. Performed on-site agency meetings with the West Virginia Division of Natural Resources (WVDNR). Performed quality reviews of data collection and report preparation.

Genesis Partners, LP, West Virginia

Role: Ecological Task Manager

Coordinated the field efforts for completion of stream and wetland delineations, stream assessments, and mitigation monitoring in association with real estate projects. Performed quality reviews of reports and data collection. Attended on-site agency meetings with the EPA, U.S. Army Corps of Engineers (USACE), West Virginia Department of Environmental Protection (WVDEP), and WVDNR.

Doss Enterprise, LC, West Virginia

Role: Ecological Project Manager

Coordinated the field efforts for completion of stream and wetland delineations for the development of a business park. Oversaw the preparation and performed quality reviews of a nationwide permit package, stream activity application, and agency coordination letters for Section 7 consultation under the ESA and Section 106 consultation under the NHPA.

Jay Bee Oil and Gas, West Virginia

Role: Ecological Project Manager

Following an EPA Administrative Order for Compliance on Consent, Docket Number: CWA-03-2016-0063DW, Ms. Kester developed an Environmental Management System (EMS) for Jay Bee's Marcellus gas operations in West Virginia for EPA review and approval. The EMS served to enhance overall environmental performance at Jay Bee's multiple operations, and to assist their future operations in complying with applicable regulations. The EMS incorporated multiple Mandatory Environmental Plans for compliance with Sections 10, 401, 402, and 404 of the Federal Clean Water Act. Additional components developed for the EMS included environmental awareness training, an internal compliance audit plan and forms, and a corrective and preventative action system.

Ecosystem Investment Partners, West Virginia

Role: Ecological Task Manager

Coordinated the field effort for completion of stream and wetland delineations and stream assessments. Performed reviews of data collection and report preparation for the development of large scale mitigation banking projects. Proposal preparation and budget control for Indiana bat habitat assessments and conservation plans. Coordinated with and managed sub-consultants for cultural resource studies. Attended on-site agency meetings with the EPA, USACE, WVDEP, and WVDNR.

Dominion Hope, West VIrginia

Role: Ecological Task Manager

Managed the preparation of nationwide permit packages for impacts to streams and wetlands associated with pipeline replacement and bank stabilization projects. Agency coordination for Section 7 consultation under the ESA and Section 106 consultation under the NHPA for those projects that did not meet the terms and conditions of Dominion's current blanket agreements. Preparation of stream activity applications through the Office of Land and Streams. Met Dominion representatives in the field to provide immediate permitting guidance on navigating the regulatory program for proposed project plans.

XTO Energy, Inc., West Virginia

Role: Project Manager

Performed Section 404/401 compliance reviews of shallow gas well sites and made remediation recommendations to bring sites into compliance. Conducted stream and wetland delineations for oil and gas related projects in West Virginia. Prepared the appropriate nationwide permit packages for impacts to streams and wetlands per the Mandatory Environmental Plan issues as part of their federal Consent Decree through the EPA. Agency coordination for Section 7 consultation under the ESA and Section 106 consultation under the NHPA. Preparation of stream activity applications through the OLS.



Jacquiyn D. Kester

Principal

Hancock County Board of Education, West Virginia*

Role: Ecological Task Lead

Performed stream and wetland delineations for the development of a new elementary school located in West Virginia. Assisted in sampling benthic macroinvertebrates and biological monitoring. Prepared a Nationwide Permit 39 Pre-construction Notification with a joint 401 Water Quality Certification. Completed a jurisdictional determination site visit with the USACE. Developed an onsite, out-of-kind permittee responsible mitigation plan to compensate for permanent impacts; the plan was designed to incorporate the mitigation project into the school's science curriculum.

Ronald Lane, Inc., West Virginia

Role: Ecological Project Manager

Coordinated the field effort for completion of stream and wetland delineations and stream assessments. Performed reviews of data collection and report preparation for the development of large commercial site development. Attended client meetings to provide guidance on permitting requirements.

Town of Marlinton, West Virginia

Role: Ecological Project Manager

Coordinated the field effort for completion of stream and wetland delineations. Performed quality review of data collection and report preparation.

Jewel City Church, West Virginia

Role: Ecological Task Manager

Coordinated the field effort for completion of stream and wetland delineations. Performed quality review of data collection and report preparation.

Town of Harman, West Virginia

Role: Ecological Task Manager

Coordinated the field effort for completion of stream and wetland delineations associated with an emergency repair of a waterline and sewer line following flooding. Oversaw the preparation and submission of nationwide permit packages for impacts to streams and wetlands. Agency coordination for Section 7 consultation under the ESA and Section 106 consultation under the NHPA. Preparation of stream activity applications through the OLS.

* Work performed prior to joining CEC

TRAINING

40-hour Wetland Delineation Course, March 31, 2011

Advanced Hydrology for Jurisdictional Determinations, April 19, 2012

Identification of Sedges, Grasses, and Rushes, December 19, 2012

Connectivity of Streams and Wetlands to Downstream Waters, November 14, 2013

NEPA: Writing the Perfect EA/FONSI or EIS, February 16, 2016

Endangered Species Act Section 7 Consultation Training, August 25, 2016

PROFESSIONAL AFFILIATIONS

West Virginia Oil and Natural Gas Association

West Virginia Independent Oil and Gas Association

Ohio Valley Oil and Gas Association

Harrison County Chamber of Commerce



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

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

Land Development

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.

Surveys / Geomatics

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.



Jason H. Littler, P.S.

Senior Project Manager

Pine Bluff Tipple Complex, Pine Bluff, WV*

This project is a Bond Forfeiture site located in Pine Bluff, WV. Mr. Littler produced all original ground sections and monthly pay volumes for submittal to the State of West Virginia. He also constructed an as-built map of the completed site.

Dolphin Communications, Bridgeport, WV*

Mr. Littler performed a complete boundary survey of this tract and produced original ground mapping for the proposed road location to the new KISS FM radio station. Mr. Littler acquired all necessary permits and contracted all state agencies necessary for the construction of this road. He also performed runoff calculations and sized all culverts along the road.

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.

WVDOH-Red Jacket Postal Facility ALTA Survey, Mingo County, WV*

Performed an ALTA/ASCM land title survey for this project. Mr. Littler served as Survey Project Manager coordinating all survey crews and managing the daily field collection of data in accordance to ALTA survey procedures along with utility coordination, record research and computations.

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.

Robinson Run Preparation Plant, Harrison County, WV*

Mr. Littler served as Survey Project Manager in charge of surveying on this 2200 TPH coal preparation plant being constructed for Consol Energy. This plant was built to replace the existing plant which had served its time. This project was unique in that the new prep plant was positioned directly behind the existing plant and the existing conveyor feed line to the plant was to only be extended from the old plant into the new plant. The tolerances on alignment tie in was minimal and final tie-in between the old conveyor feed line and the new conveyor feed line was accomplished in a couple of days with no misalignment problems.

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



Jason H. Littler, P.S.

Senior Project Manager

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

PROFESSIONAL AFFILIATIONS

West Virginia Society of Professional Surveyors

Ohio Oil & Gas Association



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

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.

EXPERTISE

Advanced Geospatial Processing

LiDAR Classification and Mapping

Reality Capture Data Processing and 3D Visualization

Kinematic GNSS/IMU Post-Processing

REGISTRATIONS

Engineer in

Surveyor Intern

WV

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



Matthew K. Bainbridge, E.I.T.

Project Manager III

Houston Railyard As-Built Model, Markwest, Houston, PA

Role: Project Manager

Terrestrial Laser Scan and Subsurface Utility Locations of rail loading facility at the Houston facility. Production of As-built Plant 3D model and delivery of Leica Truview and Navisworks to client.

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.

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

PUBLICATIONS

Bainbridge, M. K. "Modern Adventures in History", The American Surveyor, November 2019



Project Manager I



8 YEARS OF EXPERIENCE

EDUCATION

M.S., Agronomy, West Virginia University, 2013B.S., Environmental Science, West Virginia University, 2009

Mrs. Hedrick has eight years of experience working as an environmental consultant for natural gas, mining, and manufacturing industries, as well as, municipal entities and financial institutions. She has worked on projects for the public and private sectors. Mrs. Hedrick is a Project Manager at Civil & Environmental Consultants, Inc. where she assists clients in understanding and working through ever-changing environmental regulations. She earned her Master of Science in Agronomy from West Virginia University in 2013 and her Bachelor of Science in Environmental Protection in 2009. Currently, she is a Certified Professional Soil Scientist, a West Virginia Licensed Remediation Specialist, and holds multiple asbestos licenses. She has designed asbestos abatement projects, as well as, performed multiple asbestos inspections and asbestos air clearance monitoring. In the past, she has worked on a variety of remediation sites from tire recycling facilities to a former DuPont-owned Superfund site. Brittany has served as a project manager on multiple West Virginia Voluntary Remediation Program projects assisting clients in navigating the regulatory framework of the program. Mrs. Hedrick's specialty is soil remediation and she enjoys studying contaminant migration through a soil profile. She is very familiar with groundwater sampling, modeling, and remediation techniques.

REGISTRATIONS

Licensed Remediation Specialist

WV

CERTIFICATIONS

Heartsaver CPR AED, American Heart Association

40-Hour OSHA HAZWOPER, Occupational Safety & Health Administration

Certified Professional Soil Scientist, Soil Science Society of America

Asbestos Inspector, West Virginia

SafeLand USA - Basic Orientation, PEC Safety

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

Environmental Professional, ASTM

Asbestos Management Planner, WV

PROJECT EXPERIENCE

Phase I ESA

Benedum Phase I ESA - Terminal Construction, Benedum Airport Authority, Bridgeport, WV*

Role: Project Manager

As the project manager, Ms. Parks organized and delegated tasks of this Phase I Environmental Site Assessment to junior staff. After the junior staff compiled the Phase I ESA, she conducted a subject matter review of the document. As the Environmental Professional, she mentored staff to identify recognized and historical environmental conditions, De Minimis conditions, and business economic risks associated with the site. This Phase I ESA was written to obtain EDA grant money. A very tight deadline was met with a thorough deliverable to our client.

Bombardier Hangar Renovation - Phase I ESA, Benedum Airport Authority, Bridgeport, WV*

Role: Project Manager

Ms. Parks organized and delegated tasks of this Phase I Environmental Site Assessment to junior staff. After junior staff compiled the Phase I ESA, she conducted a subject matter review of the document. As the environmental professional, she mentored staff in identifying recognized and historical environmental conditions, De Minimis conditions, and business economic risks. This Phase I ESA was written to obtain EDA funds. A very tight deadline was met with a thorough deliverable to our client.

Central Cab, Kari Resources, Inc, Waynesburg, Pennsylvania*

Role: Environmental Technician

Ms. Parks performed the site reconnaissance, conducted interviews with state and local officials, reviewed historical information, and developed conclusions and recommendations based on the future redevelopment for the site. Two recognized environmental



Project Manager I

conditions and one non-ASTM scope finding were identified for the site. She recommended that the unused 4,000 gallon tank be drained and removed from the site and better housekeeping be kept for the material storage onsite. Although this Phase I ESA did not suggest a Phase II ESA, we were able to advise our clients so that they may avoid fines and/or fees in the future.

Joe McCoy Phase I ESA, Premier Bank, Inc., Ravenswood, West Virginia*

Role: Project Manager

As project manager, Ms. Parks facilitated a request from Premier Bank for a Phase I ESA on a property that was owned by the same family for over 50 years. Historically, this property was utilized for agricultural purposes. More recently, the property took on a more industrious land use and was an auto repair shop for tractor trailers. The property also was an overflow for chemical storage of a nearby plastics facility. As the environmental professional reviewing the Phase I ESA, she recommended a Phase II ESA based on the soil staining, oil sheens, and chemical storage observed at the site.

Vienna Goldmark, LLC., Premier Bank, Inc., Vienna, West Virginia*

Role: Project Manager

As the project manager, Ms. Parks organized and delegated tasks of this Phase I Environmental Site Assessment to junior staff. After the junior staff compiled the Phase I ESA, she conducted a subject matter review of the document. This Phase I ESA was conducted on a site that was already under construction. The site was identified as a service/gas station in 1964, 1969, and 1973. During the site reconnaissance, soil staining was observed approximately 1 foot below ground surface. A Phase II ESA was recommended to determine if soil and/or groundwater contamination exists onsite. The client agreed and a Phase II ESA was performed.

Phase II ESA

Vienna Goldmark, LLC. Phase II ESA, Premier Bank, Inc., Vienna, West Virginia*

Role: Project Manager

The Phase II ESA was performed to sample site soils and groundwater for evidence of an underground storage tank that was removed from the property. The underground storage tank was removed from the site prior to 1988, when regulations were enacted regarding leak detection and spill prevention. As project manager, Ms. Parks organized all site activities with the subcontracted driller and environmental scientists. Results from the Phase II indicated the property should be entered into the voluntary remediation program. As the project manager, I explained to our client the environmental liabilities they would be taking on if a foreclosure action was to take place.

Voluntary Remediation

Elk Terminal, City of Parkersburg - Urban Renewal Authority, Parkersburg, WV*

Role: Project Manager

As an Environmental Technician, Ms. Parks began field work on this project and finished as the project manager guiding the City of Parkersburg through the WVDEP Voluntary Remediation Program. From the early 1950's to 2006, this site was utilized as a Pennzoil terminal that had two aboveground storage tanks containing petroleum hydrocarbons and bulk fuels. It was found that the aboveground storage tanks and associated piping contributed to the petroleum constituents present in soils and groundwater. Ms. Parks conducted surface and subsurface soil sampling, and low-flow groundwater sampling for the site. As a consultant for the City of Parkersburg, she coordinated with regulatory agencies to fulfill the requirements of the voluntary program and determine cost-effective solutions that satisfied both the City of Parkersburg and the WVDEP.

Elkview Field Camp, Halliburton Energy Services, Elkview, West Virginia*

Role: Project Manager

As an Environmental Technician, Ms. Parks performed field work for Halliburton Energy Services (Halliburton). As a Project Manager, she assisted Halliburton navigate the WVDEP Voluntary Remediation Program. This site borders the Elk River making it a prime location for redevelopment. Purchased in approximately 1969, Halliburton utilized this property as an oil and gas services field camp. After researching the history of the site, it was determined that an underground storage tank release occurred in 1989 which resulted in remediation via pump-and-treat system. In 2018, results indicated various volatile organic compounds and heavy metal concentrations in the soil exceeded WVDEP standards. One polycyclic aromatic hydrocarbon (PAH) compound exceeded WVDEP groundwater standards in only one location indicating that natural attenuation was occurring onsite. In this project, Ms. Parks assisted Halliburton in negotiations with the WVDEP regarding the groundwater exceedance. She researched the hydrophobic properties of the PAH and determined through field notes, that this particular sample was very turbid. As the project



Project Manager I

manager, she suggested to the WVDEP to allow for the recollection of this one sample, to save Halliburton a second round of groundwater sampling.

Harrison Recycling Center, Energy Solutions Consortium, Herndon, VA*

Role: Project Manager

Acting as Project Manager, Ms. Parks was responsible for delegating tasks; developing the WVDEP-approved sampling plan; coordinating with subcontractors, the client, and the WVDEP; and providing oversight for field work. This site was previously a coal mine and, most recently, the site was utilized for metal recycling activities. Energy Solutions Consortium planned to utilize this property for construction of their power plant in Clarksburg, WV. To move forward with construction, this site needed to be remediated to state standards. I sent preliminary analytical data to a risk assessor. Based on the data, the risk assessor determined, and the WVDEP agreed, that grading activities could begin prior to the issuance of a certificate of completion. This put the client ahead of their original construction schedule.

Jane Lew Field Camp, Halliburton Energy Services, Jane Lew, WV*

Role: Project Manager

During this voluntary remediation project, Ms. Parks collected environmental media samples from approximately 6-acres to characterize the site. Historically, Halliburton utilized this site as a field camp for oil and gas services from 1963 until 2013. Truck maintenance, truck washing operations, HCl tanks, and chemical storage contributed to the suspected site contamination and eligibility for the voluntary remediation program. Surface soil, subsurface soil, and groundwater samples exceeded WVDEP standards and contributed to offsite migration. As a project manager for the project, I assisted in coordinating correspondence regarding offsite migration between the client and WVDEP.

Moundsville Zinc, Regional Economic Development Partnership, Moundsville, WV*

Role: Project Manager

As part of the former United Zinc Smelting Corporation's Zinc Smelter in Moundsville, WV, I assisted RED through the beginning stages of the WVDEP Voluntary Remediation Program. Historically, this facility was notorious for smelting activities from 1918 to 1945. A U.S. EPA "no further action" letter was issued for the site; however, this did not satisfy the state's remedial concerns. It was challenging for our client to understand why their newly purchased property, with a USEPA no further action letter, still needed the onsite environmental media characterized and assessed. As project manager, she worked with RED in understanding the importance of having a certification of completion from the state and they proceeded with the VRP.

Remedial Action

The Perrine-DuPont Settlement, NorthStar Contracting, Inc., Spelter, West Virginia*

Role: Environmental Technician

A DuPont-owned zinc smelter, located outside Clarksburg, WV, was in operation for approximately 90 years in a town called Spelter. During the time of its operation, wind-blown heavy metal contaminants from production and slag piles were deposited throughout Spelter and surrounding communities. Millions of dollars were awarded towards the cleanup of Spelter and the surrounding communities in a class-action lawsuit. For three years, Ms. Parks acted as the onsite environmental consultant for the general contractor performing the dig and haul job. Structures were also remediated as the structures were also subjected to the contamination. As an environmental technician, Ms. Parks inspected erosion and sediment controls, monitored ambient and personal air, provided quality control for the interior and soil remediation efforts, and documented all daily remedial activities.

Asbestos

Airport Hangar Inspection, Benedum Airport Authority, Bridgeport, WV*

Role: Project Manager

The Benedum Airport Authority, manager of the North Central West Virginia Airport, needed an asbestos inspection in order to receive \$1.7 million from a federal Economic Development Authority (EDA) grant. The grant money was intended to renovate the Bombardier Aviation building. Although the EDA was mainly concerned with the renovation activities, the Benedum Airport Authority was working against a tight deadline. The CEC Project Manager was able to rearrange schedules to get an inspector onsite, inspect a hangar (> 100,000 square feet), and for the inspector to be off-site within a few days. Plans have changed for the North Central West Virginia Airport since the inspection was completed; however, when the client needed the project to be handled with urgency, the CEC Project Manager was able to accommodate the client's needs.



Project Manager I

Aleshire Pedestrian Bridge, WV Deparment of Transportation, Divison of Highways, Seth, West Virginia*

Role: Project Manager

This job was completed for the West Virginia Division Of Highways (DOH) in April 2019. The CEC Project Manager worked with Mr. Harry Bradley for the inspection of 16 structures in a community only accessible via concrete bridge. Often, the concrete bridge was flooded from small amounts of rain. The CEC Project Manager worked to find a solution to the problem and get the work done. Instead of waiting for a low flow along the Big Coal River, a kayak was organized with equipment and two WV-licensed asbestos inspectors finished inspecting the 16 structures within two days. The inspection revealed fire-damaged homes. Samples collected in these buildings were obtained from a safe distance due to the unknown structural stability of the building. The CEC Project Manager QCed the report submitted to Mr. Bradley so that the document was in accordance with DOH standards for asbestos inspection reporting.

Gilmore Building, City of Madison, Madison, WV*

Role: Project Manager

Asbestos professionals, under the leadership of CEC's Project Manager, were able to help the small, rural community of Madison, WV after enduring a challenging time in the Fall of 2018. A structure fire engulfed the Gilmore Building causing major structural damage. The asbestos inspection was performed so that the City of Madison could rebuild. CEC's Project Manager was able to find savings around every corner for the client. An estimated cost of \$6,300 was provided to the client and at the end of the project, the City of Madison only paid about half of that cost. Limiting sampling areas and cutting field time accelerated the project, brought the project in under budget, and on time.

K & J Apartments, Wst Virginia University Medicine, Morgantown, WV*

Role: Project Manager

West Virginia University Hospitals plans to construct a 6-story parking garage to expand parking for patients and visitors. The new parking garage is to be constructed on the same lot that the Medical Center Apartments (K & J Apartments) are located on. In order to demolish the buildings, an asbestos inspection was performed on the identical set of apartment buildings. Asbestos was identified on the property and an abatement was performed. Ms. Parks is a licensed West Virginia air clearance monitor and performed the air clearance, allowing the demolition to proceed on schedule.

Various Inspections throughout WV, Confidential Client, Varies, WV*

Role: Project Manager

As a project manager for a previous firm, the Project Manager worked with a confidential client that dominates the oil and gas industry nationally and in West Virginia. CEC's Project Manager performed multiple asbestos inspections for this client. Two residential buildings were planned for demo so that the road could be widened in that area. A rush was put on the results and a report was delivered to the client just in time for the 10-day notification to be submitted. This client was able to start demolishing the structures on time, keeping the project on schedule.

Various Inspections throughout WV, Confidential Client, Clendenin, WV*

Role: Project Manager

As a project manager for a previous firm, the Project Manager worked with a confidential client that dominates the oil and gas industry nationally and in West Virginia. CEC's Project Manager performed multiple asbestos inspections for this client. Multiple sheds were inspected for this client. These sheds were typically in-line to be demolished. The inspections were completed in approximately one half day to keep the construction schedule up-to-date.

Various Inspections throughout WV, Confidential Client, Varies, WV*

Role: Project Manager

As a project manager for a previous firm, the Project Manager worked with a confidential client that dominates the oil and gas industry nationally and in West Virginia. CEC's Project Manager performed multiple asbestos inspections for this client. Some utility repairs require the excavation of older pipes with an applied coal tar coating on the outside of the pipe that protects against pipe corrosion. When our client was laying pipe in the field and encountered coal tar wrapped pipe, we could be onsite within two and a half hours (depending on the location of the site). The pipe was sampled, cut to the length of the waste disposal box, wrapped, labeled, and placed in an area that is out of the way. The client was very pleased with the work performed on the project.



Project Manager I

WVU - Fieldcrest Hall, Wst Virginia University Medicine, Morgantown, WV*

Role: Project Manager

WVU's Fieldcrest Hall was originally the Monongalia County General Hospital. The building underwent multiple renovations which created a multitude of homogeneous areas. Diligence and dedication to the project pushed this project through to the abatement phase, as asbestos materials were found. Keeping organized and methodical, this inspection was completed under one week. The project manager was available to the abatement contractor to collect samples of homogeneous areas that were missed. The client was happy with the project manager staying in budget and on time so their demolition schedule was not delayed.

* Work performed prior to joining CEC

AWARDS

Graduate Research Assistantship (August 2010 - October 2012)

PROFESSIONAL AFFILIATIONS

American Society of Agronomy

Soil Science Society of America





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.



Photo courtesy of Halkin-Mason Photography



The Laurel Highlands Falls Area Visitor Center project has been awarded the USGBC LEED Gold Certification Photo courtesy of Halkin-Mason Photography



Civil & Environmental Consultants, Inc.

MYLAN PARK RV PARK

36 BACK-IN LOTS 131 PULL THROUGH LOTS 26 CABIN SITES

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

MYLAN PARK MPROVEMENTS PLAN MYLAN PARK PROPOSES DAGA PART PART DRAWAGE PADD WOOD OF S MAZE A JUL RUEY GOMMUNITY GOMUNITY GOMMUNITY GOMMUNITY GOMMUNITY GOMMUNITY GOMMUNITY GOMMUNITY GO

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.



DINA COLE KLAVON, RLA, ASLA

Principal, Klavon Design Associates, Inc.

Dina founded Klavon Design Associates, Inc. in 1996. She is responsible for all aspects of the business, including business development, client relationships, financial accountability, staff management, and daily office management. For over 38 years, she has helped transform the public spaces of Pittsburgh with beautiful and innovative landscape architecture. She has worked on projects across the country and in Europe ranging from intimate gathering spaces to large scale master plans. She is an advocate for equitable design and sustainability as a means of improving the social and economic well-being of communities and the people that live in them.

Education

BS, Landscape Architecture Pennsylvania State University

Registrations

Registered Landscape Architect Pennsylvania

Certifications

Master Planning Principles
USACE Learning Center

Awards

2020 AIA Pittsburgh Honor Award CMU ANSYS Hall

2018 ASLA Merit Award CMU Margaret Morrison Reflection Garden

2015 ULI Award of Excellence Energy Innovation Center

2013 ULI Award for Excellence
Academic Village at Point Park University

2011 Planetizen Top 100 Public Spaces in the US and Canada Market Square

2011 10,000 Friends of Pennsylvania Commonwealth Award Market Square

2004 ASLA PA/DE Special Recognition Award Strawberry Way

Affiliations

Pennsylvania State Board of Landscape Architects Board Member, 2017-present

City of Pittsburgh Art Commission Chairperson, 2002-2010

Selected Projects

Academic Village Plaza, Point Park University, Pittsburgh, PA Principal

ANSYS Maker Space Courtyard, Carnegie Mellon University, Pittsburgh, PA Principal

Borough of Sewickley, Riverfront Park, Sewickley, PA Principal

Braddock Borough, Braddock Civic Plaza, Braddock, PA Principal

Carnegie Mellon University, Margaret Morrison Reflection Garden, Pittsburgh, PA Principal

Children's Home of Pittsburgh, Site and Landscape Improvements, Pittsburgh, PA Principal

City of Beaver Falls Carnegie Library Park, Beaver Falls, PA Principal

City of Pittsburgh, Westinghouse Park Playground, Pittsburgh, PA Principal

Northside Leadership Conference, Alpine Tot Lot, Pittsburgh, PA Principal

PA Department of Conservation and Natural Resources, Yellow Creek State Park, Site and Landscape Improvements, Pittsburgh, PA Principal

Pittsburgh Zoo and PPG Aquarium, Jungle Odyssey, Pittsburgh, PA Principal

St. James Catholic Church, Site Master Plan for Playgrounds, Pittsburgh, PA Principal

Summerbrook Homeowner's Association Community Park, Canonsburg, PA Principal

Urban Redevelopment Authority, Market Square, Pittsburgh, PA Principal

Wilkins Township, Amphitheater and Site Improvements, Pittsburgh, PA Principal

USACE, Shore Park Recreation Area, Aberdeen Proving Ground, MD Principal



DREW HARBAUGH, RLA

Senior Landscape Architect, Klavon Design Associates, Inc.

Drew's experience ranges from planning and design through construction administration. He has played a critical role in large scale planning projects as well as finely-detailed construction projects. He is able to think broadly about a site in terms of its potential while understanding how future development will be implemented on the ground, allowing for the creation of buildable and sustainable design solutions. Drew has developed exemplary skills in the technical aspects of landscape architecture such as grading and drainage, site details, specifications, cost estimating, construction observation, and zoning code review.

Education

Bachelor of Landscape Architecture Pennsylvania State University

Registrations

Registered Landscape Architect Pennsylvania

Certifications

Master Planning Principles USACE Learning Center

Awards

2020 AIA Pittsburgh Honor Award CMU ANSYS Hall

2018 ASLA Merit Award CMU Margaret Morrison Reflection Garden

2015 ULI Award of Excellence Energy Innovation Center

2015 APA Great Public Spaces in Pennsylvania Market Square

2013 ULI Award for Excellence
Academic Village at Point Park University

2011 Planetizen Top 100 Public Spaces in the US and Canada Market Square

2011 10,000 Friends of Pennsylvania Commonwealth Award Market Square

Selected Projects

Borough of Sewickley, Riverfront Park, Sewickley, PA Landscape Architect

Braddock Borough, Braddock Civic Plaza, Braddock, PA Landscape Architect

Carnegie Mellon University, Legacy Plaza, Pittsburgh,PA Landscape Architect

Carnegie Mellon University, Margaret Morrison Reflection Garden, Pittsburgh, PA Landscape Architect

Children's Home of Pittsburgh, Site and Landscape Improvements, Pittsburgh, PA Landscape Architect

City of Beaver Falls Carnegie Library Park, Beaver Falls, PA Landscape Architect

City of Pittsburgh Schools, Homewood Elementary School Playground, Pittsburgh, PA
Landscape Architect

Monaca Water Works Park, Monaca, PA Project Manager

Northside Leadership Conference, Alpine Tot Lot, Pittsburgh, PA Landscape Architect

PA Department of Conservation and Natural Resources, Yellow Creek State Park, Site and Landscape Improvements, Pittsburgh, PA Project Manager

Pittsburgh Zoo and PPG Aquarium, Jungle Odyssey, Pittsburgh, PA Landscape Architect

St. James Catholic Church, Site Master Plan for Playgrounds, Pittsburgh, PA Landscape Architect

Summerbrook Homeowner's Association Community Park, Canonsburg, PA Landscape Architect

Urban Redevelopment Authority, Market Square, Pittsburgh, PA Landscape Architect

Wilkins Township, Amphitheater and Site Improvements, Pittsburgh, PA Landscape Architect



RACHELLE WOLF, LEED AP

Facilitator/Senior Landscape Designer, Klavon Design Associates, Inc.

Rachelle's experience includes many areas of landscape architecture including master planning, site planning, and urban design with emphasis in sustainable design and project management. Rachelle's years of experience include design, site layout, grading and drainage, site details, planting plans, specifications, cost estimating, and construction administration. Rachelle is also responsible for LEED® integration and documentation for all projects within the firm. She completed the National Charrette Institute (NCI) Charrette System Training and leads public engagement and facilitation exercises for Klavon.

Education

BS, Landscape Architecture Pennsylvania State University

Certifications

LEED Accredited Professional
Green Business Certification Inc.™

Master Planning Principles USACE Learning Center

Charrette System Training National Charrette Institute

Awards

2020 AIA Pittsburgh Honor Award CMU ANSYS Hall

2018 ASLA Merit Award CMU Margaret Morrison Reflection Garden

2015 ULI Award of Excellence Energy Innovation Center

2015 APA Great Public Spaces in Pennsylvania Market Square

2013 ULI Award for Excellence
Academic Village at Point Park University

2011 Planetizen Top 100 Public Spaces in the US and Canada Market Square

2011 10,000 Friends of Pennsylvania Commonwealth Award Market Square

2009 DWR Chair Design Finalist

2008 ASLA PA/DE Honor Award PNC Firstside Park

Selected Projects

Academic Village Plaza, Point Park University, Pittsburgh, PA Project Manager

ANSYS Maker Space Courtyard, Carnegie Mellon University, Pittsburgh, PA Project Manager

Army Research and Laboratory Deer Loop Master Plan, Aberdeen, MD Senior Landscape Designer

Borough of Sewickley, Riverfront Park, Sewickley, PA Project Manager

Braddock Civic Plaza, Braddock, PA Project Manager

Carnegie Mellon University, Legacy Plaza, Pittsburgh,PA Project Manager

Carnegie Mellon University, Margaret Morrison Reflection Garden, Pittsburgh, PA Project Manager

Four-Mile Run Mobility Trail, Pittsburgh, PA Project Manager

Monongahela Riverfront Walkability Study, City of Monongahela, PA Senior Landscape Designer

Norrfoss Office Building Development, Gensler Architects, Pittsburgh, PA Senior Landscape Designer

PA Department of Conservation and Natural Resources, Yellow Creek State Park, Site and Landscape Improvements, Pittsburgh, PA Project Manager

Pittsburgh Zoo and PPG Aquarium, Jungle Odyssey, Pittsburgh, PA Project Manager

Summerbrook Homeowner's Association Community Park, Canonsburg, PA Project Manager

The Stacks at 3 Crossing, Building G, Oxford Development, Pittsburgh, PA Project Manager

Transforming 12th Avenue, Homestead, PA Project Manager

Wilkins Township, Amphitheater and Site Improvements, Pittsburgh, PA Project Manager

YELLOW CREEK STATE PARK

Pennsylvania DCNR | Indiana, PA







Yellow Creek State Park is part of the Pennsylvania Department of Conservation and Natural Resources (DCNR). The future success of conservation lies ultimately in our ability to inspire Americans to connect with the outdoors and nature, and to become stewards of the environment.

Klavon was responsible for developing a 4.5 acre master plan of the site that would encourage people to spend time outdoors. The design effort supported the Park Management's goals to minimize and reduce the parks carbon footprint, reduce greenhouse gas emissions and to rehab the beaches day-use area for improved public service, and enhanced park operational and maintenance control.

The priorities were to demolish the existing structures, improve access and drainage, and install new public toilets, a playground, and a pavilion. The beach house and comfort station were completely refurbished to create a more inviting destination for visitors. An ADA path to the water was added to create easier access to the beach. Additional ADA accessibility was also added to the parking lot as well as the sidewalks to all buildings.

Contract Duration 2017-2019

2011 20

Fee \$48K

Project Size

4.5 AC

Contact

Paul Cali, AIA Principal DRS Architects, Inc. PCali@drsarchitects.com (412)-391-4850

Project Manager

Drew Harbaugh dharbaugh@klavondesign.com (412) 394-1181 ext. 222

Project Features



Community Engagement



Landscape Architecture/ Site Planning



Green Infrastructure



Recreation

SWAN CREEK PARK MASTER PLAN

Aberdeen Proving Ground | Aberdeen, MD









Left: The RV Park fits into the existing context and includes space for expansion. Right: constructed cabins along Swan Creek.

The Swan Creek Park is located on the Chesapeake Bay in the Swan Creek area of Aberdeen Proving Ground. The goal of the project was to develop a park area to include cabins and recreational vehicles while maintaining the natural environment. This project included new vehicular circulation and parking; RV parking areas; community facilities including offices, laundry facilities, men's and women's showers/restrooms, utility metering, dumpsters, proposed cabin areas, proposed campsites with parking and picnic amenities such as grills, picnic tables, and trash receptacles; community spaces with fire pits; and a renovated wood pier and improved boat launch area for water activities. All components were tucked into the existing wooded areas and maintain critical setback zones while taking advantage of the views of the Bay.

Contract Duration

2006

Fee

\$128K

Project Size

24.5 AC

Contact

William Clement APG Facilities/Master Planning Building 4402, Room 320 Aberdeen, Maryland 21005 (724) 809-8003

Project Manager

Dina Klavon dklavon@klavondesign.com (412) 394-1181 ext. 225

Project Features



Landscape Architecture/ Site Planning



Community Planning



Sustainable Design



Form Based Code



Recreation

SHORE PARK RECREATION AREA

Aberdeen Proving Ground | Aberdeen, MD



The Shore Park Master Plan includes formal gardens, sport fields, a beach area, an amphitheater, and other amenities

Shore Park is located on the Chesapeake Bay within Aberdeen Proving Ground. The recreation plan was developed to provide a guide for future development. Its goals was to capture the needs and desires of the residents of APG to improve the quality of life. Plan objectives included a proposed road network and parking areas; a recreational center with a conference area, pool, exercise, and meeting rooms; an amphitheater with a band shell area, formal gardens, and lawn area for play area; basketball, volleyball, and horseshoe courts; batting cages and softball field; a beach area; boat docks and piers; passive recreation fields; and improvements to the historic cemetery located in the area. All components were integrated into an existing park area adjacent to an existing housing.

Contract Duration

2006

Fee

N/A

Project Size

125 AC

Contact

William Clement APG Facilities/Master Planning Building 4402, Room 320 Aberdeen, Maryland 21005 (724) 809-8003

Project Manager

Dina Klavon dklavon@klavondesign.com (412) 394-1181 ext. 225

Project Features



Key Stakeholder Engagement



Landscape Architecture/ Site Planning



Sustainable Design



Recreation

STEEL CITY ROWING CLUB

Steel City Rowing Club | Verona, PA



Proposed plan pictured above

The purpose of the project was develop a "home" for the rowing club. The project included a new boathouse for social and training activities, a boat storage area, connections to existing trails, a launch area for club members and the public, and parking. The property constraints created an unusual site plan.

Tasks include the following items:

- · Review existing site
- · Identify constraints and opportunities
- Recommend improvements to coincide with existing visual character
- · Prioritize needs and provide design solutions
- · Facilitate community and steering committee meetings
- Prepare phasing plan
- · Prepare cost estimates
- · Prepare construction documents and specifications

Contract Duration

2010

Fee

\$100K

Project Size

3.4 AC

Contact

Sarah Humphrey Executive Director Steel City Rowing Club 101 Arch Street Verona, PA 15147 sarah@steelcityrowing.org (412) 828-5565

Project Manager

Dina Klavon dklavon@klavondesign.com (412) 394-1181 ext. 225

Project Features



Landscape Architecture



Green Infrastructure



Sustainable Design



Multimodal Circulation

REFERENCES

Charles "Mick" R. Jones Jr.

City Manager

City of Beaver Falls

715 15th Street

Beaver Falls PA 15010

cjones@beaverfallspa.gov

(724) 847-2808 ext. 215

Paul Martinchich, PE

Project Engineering Manager

Engineering and Construction Department

Urban Redevelopment Authority of Pittsburgh

412 Blvd of the Allies, Suite 901

Pittsburgh, PA 15219

pmartinchich@ura.org

(412) 255-6417

Marlene Landrum

Director

Community Development Program

of Beaver County

1013 8th Avenue

Beaver Falls, PA 15010

mlandrum@beavercountypa.gov

(724) 770-2046

Michael E. Panzitta, PE

Project Manager

Department of Mobility and Infrastructure

City-County Building, Room 301

414 Grant Street

Pittsburgh PA 15219

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(412) 255-0816

Michael Balistreri

Oxford Development

2545 Railroad Street

Pittsburgh, PA 15222

mbalistreri@oxforddevelopment.com

(412) 261-1500

Cathy McCollom

Principal

McCollom Development Strategies LLC

River Towns Program Director

716 Oden Street

Confluence, PA 15424

csm@mccollomds.com

(814) 521-3520

State of West Virginia

New Campground at Cass Scenic Railroad State Park

In Response To:

Request for Proposal

Proposal Information for Cost Estimating Services



Trophy Point, LLC

Blasdell, NY

Pittsburgh, PA

New York, NY

Contact: Rich Chudzik Phone: 716-823-0006

Email: rchudzik@trophypoint.com

Firm Profile



Trophy Point is a certified Service-Disabled, Veteran-Owned Small Business (SDVOSB) that provides Construction Cost Estimating, Construction Management Support, Owner's Representative Services and Construction Consulting services. Within each of these areas, Trophy Point provides ancillary services, such as those shown below. The most common services offered by Trophy Point are cost estimating, scheduling, integrated design and constructability review services, staff augmentation, and owner's representation. Trophy Point's services enable the company to provide full pre-construction controls.

For decades, Trophy Point has provided Construction Cost Estimating services, where required, in the Pre-Construction, Construction, and Post-Construction phases of a project. In 2018, Trophy Point merged with Baer & Associates, a nationally-recognized cost consulting firm known for its estimating accuracy and thoroughness. The combination of Trophy Point's mission first approach with Baer & Associates' experienced staff and history enabled the new organization to integrate the best practices of both teams in a manner that resulted in tremendous synergistic benefits to the industry.

The Trophy Point team strives to assist their clients in understanding construction costs during the concept phase of a project and provides them with detailed and accurate estimates as a project design matures. Since 1976, the Trophy Point team has developed an ability to provide accurate estimates prior to the execution of formal design efforts in an unrivaled manner that enables clients to align their scope with their budgets quickly and effectively.

Trophy Point also provides unparalleled Owner's Representative, Construction Management Support, and Construction Consulting services. Their understanding of how a project's costs are derived has enabled them to expand their professional services into many areas, such as Scheduling, Construction Administration, Staff Augmentation, Integrated Design and Constructability Reviews, and general Owner's Representation. Their team provides a "one-stop shop" for professional services required during all phases of a project. Trophy Point is flexible and able to accommodate the needs of their clients by providing any of these services in an independent capacity as well.

The Trophy Point team of 27 works out of offices in Buffalo, NY, Pittsburgh, PA, and New York, NY, and have supported nearly 100 projects at the state level just in the last four years. These projects include Capital & Rehab projects at Hamlin Beach State Park on Lake Ontario in New York, several projects for the NYS Olympic Regional Development Authority (ORDA) in the Adirondacks, Letchworth State Park, and NYS Hudson Eagles State Recreation Area, just to name a few.

Key Staff



Richard Chudzik

President & Owner – Estimator & Project Manager

Background

Rich brings 20 years of leadership experience across organizations and teams of varying functions, sizes, and industries to Trophy Point. Rich has served as the Estimator-of-Record and Project Manager on several new-build and renovation projects.

Rich has worked as a Quantity Estimator, Project Manager, and Estimator-In-Charge. These projects have ranged from \$75,000 to \$250M in construction value. Prior to starting Trophy Point, Rich worked as an Estimator and Business Development Director for one of the Nation's most reputable Cost Consulting firms, Baer & Associates.

Prior to joining the Construction Industry, Rich worked in the Aerospace & Defense Industry where he served in several different capacities and at varying levels at Moog and General Dynamics Land Systems in General Management, Supply Chain, Business Development, and Operations. As a Veteran Infantry Officer who served in Iraq and Afghanistan, Rich has a passion for supporting our Veterans and their Spouses — something that served as an impetus behind the founding of Trophy Point. He is the recipient of a Bronze Star, Purple Heart and a graduate of several military schools, including Ranger, Airborne, Air Assault, Marine Corps Mountain Warfare, and SERE Level B schools.

Education

- United States Military Academy,
 West Point, NY
 B.S. Political Science & Computer
 Science
- Duke University, Durham, NC M.B.A.
- Cornell University, Ithaca, NY
 M.Eng. Systems Engineering

Project Experience

- Hamlin Beach State Park Capital & Rehab Projects
- Allegany State Park New Comfort Stations
- Ralph C. Wilson, Jr. Centennial Park New Office and Maintenance Building and Comfort Stations
- NYS Olympic Regional Development Authority (ORDA) – Gore Mountain Base Lodge Addition
- Sterling Nature Center Visitor's Center
 & Site Improvements

Key Staff



Joseph Dommer

Executive Vice President - Senior Estimator

Background

Joe brings 30 years of industry experience to the firm. With a degree in Construction Management Technology, Mr. Dommer's experience includes many public, university, K-12, healthcare, and complex industrial projects where he has served as the Chief Cost Estimator and/or Project Manager.

Joe has supported hundreds of projects that have ranged from \$100,000 to \$500M in construction value. He is also a graduate of the University at Buffalo Center for Entrepreneurial Leadership. Joe's experience is rooted in his time at Baer & Associates where he started in June 1991 as a Summer intern and became a full-time employee in May 1992. Joe's career path took him through several different roles at Baer & Associates, including Quantity Estimator, Project Manager, Vice President, and President in 2004.

In 2017, he co-founded Trophy Point with Rich Chudzik and has been applying his lessons learned from the industry over the past 30 years towards growing the company. Mr. Dommer is a member of the Hilbert Board of Trustees, and an affiliate member of the Buffalo-Western New York Chapter of the American Institute of Architects.

Education

- Erie Community College, Buffalo, NY
 Associates Construction Management
- University at Buffalo, Buffalo, NY
 Core program graduate Center for
 Entrepreneurial Leadership

Project Experience

- Ralph C. Wilson Jr. Park New Office & Maintenance Building and Comfort Station
- Allegany State Park New Comfort Stations
- Hamlin Beach State Park Capital and Rehab Projects
- NYS Hudson Eagles State Recreation Area – Hudson, Athens & Coxsackie Boat Launches
- Letchworth State Park South Pool Complex Repurposing
- Mine Kill State Park Pool Bath House and Concession Stand Renovations
- NYS Office of Parks & Recreation DeVeaux Woods Administration Office Relocation

Relevant Experience



NYS Hudson Eagles State Recreation Area – Hudson, Athens & Coxsackie Boat Launches

Location: Hudson, NY

Client: Stantec

Scope: This project included the rework of three boat launches along the Hudson River. The tidal

nature of the lower Hudson had damaged the bulkhead walls and needed repaired with underwater welding and added drainage. Decorative finishes and park-like features were added including nesting poles for eagles, informative signs and lighted docking signs to make the launches easier to locate from the river. Pre-engineered pavilions, pavers and

plantings were part of the project.

Cost Estimate: \$7.5M

Hamlin Beach State Park – Capital Rehab Projects

Location: Hamlin, NY

Client: HHL Architects

Scope: Trophy Point provided cost estimating services for this project that involved over 25 office,

toilet / shower, and general support buildings across the entire park. The program

objectives included improving the park visitor experience, enhancing vehicular circulation,

improving trails and pathways, ADA access at buildings, and enhancing the park

architecture.

Estimated: 2020
Cost Estimate: \$11M

Allegany State Park – New Comfort Stations

Location: Salamanca, NY

Client: Architectural Resources

Scope: Trophy Point provided cost estimating services for constructing four new comfort station

buildings that included new restroom, shower and changing room facilities for

campers/park visitors. Special considerations for estimating this project involved timber

truss buildings and other specialized wood products.

Estimated: 2021
Cost Estimate: \$5.8M



SECTION 2: DESIGN APPROACH

DESIGN APPROACH

We would structure this project's design phase to be focused and methodical. Having vetted many similar proposals, you must be well acquainted with the typical project checklists that define levels of performance and compliance. Therefore, in lieu of reciting familiar details, we would like to describe design principles and values that support our approach, concluding with a brief outline of project tasks focused on their implementation.

We look forward to acquiring an understanding of the park before we think about any site-specific additions. Architects often assume the role of place makers, but in this case, we are more than content to adopt the role of responsible, hopefully inspired, stewards of inherently beautiful places. Our team of environmental, engineering, and design professionals will observe, experience, listen, and document our understanding of the park's critical characteristics and establish a comprehensive list of design requirements to meet project goals. Our method will assure that the conceptual integrity of the design approach is sound and achieves the highest standards of environmental, functional, regulatory, fiscal, and operational performance.



Moraine State Park, PA

Construction debris near a footpath. We can not always rely on nature to clean up after us.



TREAD LIGHTLY AND LEAVE NO TRACE

LEARNING FROM THE LAND

We are sensitive to the finely tuned balance that exists in our State Parks between the wilderness and its appreciation. Although our task will be to increase the capacity for enjoyment of the park, as designers, we measure success in terms of the minimal impact of our intervention – upon completion, during construction, and most importantly, over a long period of sustained use. We believe in architecture that complements its natural environment and permits human habitation to assimilate into its ecosystem. Additionally, the patterns of use that the architecture prescribes must inspire visitors to observe that same land ethic. Considerations of sensitive siting, provision of utilities, access and maintenance, sustainable materials and construction methods, minimal energy consumption, aesthetic harmony, and a degree of resilience approaching permanence. In these terms, the penultimate architectural achievement is fitness, structures that are constituent parts of a natural place, and elements that arise from the landscape, which, in turn, mature to help define it. We believe the art of architecture is defined by fitness to context.



The traditional Japanese Inn, ryokan is a model of architectural invisibility. The landscape however, is highly cultivated.

The state of the s



Concept images from the executed rehabilitation plan for Yellow Creek State Park, Indiana County, PA

Completed project included beach reconfiguration, parking improvements, concessions pad & utilities, site regrading, new path system, two new playgrounds, event pavilion, new restrooms and new landscaping.



Concept for a restroom pavilion for Yellow Creek State Park, Indiana County, PA

COLLABORATION AND COMMUNICATION

We believe every project is an opportunity for us to grow our skills and learn from our collaborators. It may be a cliché to state that building projects are a team sport — however hackneyed the phrase may be, it is nevertheless, true. Successful teams learn to leverage individual strengths in a cooperative effort to achieve common goals. Our process will establish regularly scheduled meetings, frequent dialogue through a structured stakeholder distribution chain, appropriate project goals, and a goals checklist that will be repeatedly applied to keep our focus trained on those goals. Quality assurance will include programmatic, technical, aesthetic, environmental, cost, and schedule criteria. We will routinely communicate ideas using a variety of graphic techniques, including 3-D models and short animations, that will incorporate staging/phasing steps and promotional materials for client use.

GOAL SETTING

A focus of early project team conferences will be to understand the scope of the project and establish benchmarks for:

Maintaining physical assets and acknowledging project vulnerabilities; confirming functional and program requirements; determining legal and code requirements; and finally, schedule and budget requirements.

Concurrent initial phase activities will include environmental assessments and surveying, including LIDAR mapping of the relevant context.

DESIGN TIMETABLE AND PROCESS

We will work with the owner to thoroughly define work scope and develop a coordinated review, submission, and construction schedule that is much more "granular" for efficient delivery of the projects. The design team acknowledges that the addition of virtual meetings to support the design approach will be required and will be organized, as needed. Longest lead times, NPDES permitting, for instance, will be strategically integrated into the project schedule early into the process.

The design team will seek to avoid wetlands impacts, to the greatest extent possible, in order to avoid the need for wetland and stream impact permits.

We do anticipate that documentation will be required for certain environmental permitting including:

Wetland and Stream Identification and Delineation.

Clean Water Act Section 404 wetland and stream impact permit through the WVDEP or ACOE Huntington District.

NPDES permit application (disturbance over 1 acre).

Threatened and endangered species coordination will be conducted.

NEPA clearance for the project sites.



Yellow Creek State Park, Indiana County, PA

Barn, Summers County, WV

Simple, expressive and functional. The character of this structure belies its modest size.

MONTH 1

TEAM MEETING # 1 - KICK-OFF

Kick-off meeting to introduce & establish the Client-Consultant Design Team Begin round-up of any existing documents of relevance.

Goal Setting: Initial Programming Requirements & Considerations

Discuss relevant Park Operations parameters.

Establish Communications protocols, regular meetings and main points of contact for each stakeholder group.

List regulatory authorities having jurisdiction over the project.

Establish a critical-path design schedule including Permit Review projections including review by WVDEP and NPDES permits.

Schedule surveys for any essential information absent from the database.

Perform LiDAR scans of relevant site areas for site suitability analysis, as required.

Format Base Documents for design "backgrounds" & distribute for Team use

Discuss Performance Goals: Projected Lifecycles, Maintenance, Sustainability.

Begin Site Analysis and Program Documentation.

Formalize Project Goals - Develop Project Checklist.

TEAM MEETING #2 - SITE ANALYSIS

Meet to discuss formal documentation of critical site features and program requirements.

Map Critical Site Features including, but not limited to:

Surface Water and Wetlands

Groundwater

Wildlife Habitats

Emergency Vehicle Access

Recreation Resources, Access, and Trails

Historic Resources

Scenic Resources

Unique and Scarce Vegetation

Wildfire Hazards

Topological / Geological features of interest

Microclimates

Update base documents and re-distribute to Team.







Constructed cabins along Swan Creek. Swan Creek Park, Aberdeen, MD (Klavon)

MONTH 2

Formulate preliminary concept plans.

Site Master Plans including preliminary Grading Plan

Building Plans / 3D models buildings + site.

Code Analysis – Permit Filing strategy.

Engineering Narratives describing the utilities and building systems.

Preliminary cost data applied on \$/SF basis for general improvements by division.

Architectural Narrative of Sustainable Design and Construction features.

TEAM MEETING #3—CONCEPTS EVALUATION

Meet to review initial design concepts based upon program and project goals.

Select concepts for further development.

Continue to refine cost data to keep pace with architectural / site development.

Update base documents and redistribute to Team.

TEAM MEETING #4—CONCEPTS PROGRESS

Meet to review concept development progress.

Project Goals Review: Apply Project Checklist.

Update base documents and redistribute to Team.

Continue to refine cost data to keep pace with architectural/site development

MONTH 3

Continue Construction Documentation.

Detailed Site Development, Architecture Development

Construction Phasing Narrative / Diagrams.

Begin to formulate a detailed Cost Estimate per the evolving master plan and building design.

Outline Specifications.





TEAM MEETING #5—DESIGN DEVELOPMENT & TECHNICAL REVIEW

Review focused on project's technical solutions and constructability

Park Operations

Site Impacts

Phasing

Maintenance and Durability

Energy Performance and Sustainable Practices

Project Goals Review: Apply Project Checklist.

Update base documents and redistribute to Team.

Continue to refine cost data to keep pace with architectural development.

MONTH 4



Detailed drawing development (all disciplines) including schedules, tags, dimensions, and notes.

Refine the detailed Cost Estimate per the developing design.

Complete Draft Specifications, all disciplines.



Review 60% Complete Construction Documents

Review Comprehensive Project Costs with DNR

Technical review to coordinate engineering, architecture and fill missing gaps

Project Goals Review: Apply Project Checklist.

Update base documents and redistribute to Team.

Continue to refine cost data to keep pace with site / architectural development.



Pool House, Nemacolin Woodlands Resort

The simple elegance of small pool house at Nemacolin. We chose a simple expression utilizing quality materials, an easily shipped & assembled prefabricated structure, and a floor plan that is efficient and highly functional.



Oak Hall Regional Park, State College, PA (Stahl Sheaffer)

MONTH 5

Continue Architectural and Engineering Construction Documentation up to 95% complete.

Complete details, schedules, tags, dimensions, and notes.

Complete Specifications, all disciplines, including "Front End" specifications.

Refine the detailed Cost Estimate up to 95% Complete Construction Documents.

TEAM MEETING #7 - PRE-BID REVIEW

Review 95% Complete Construction Documents.

Review Bidding and Permit Filing Procedures with DNR.

Confirm Phasing Strategies for project delivery.

Define limit of construction impacts, both environmental and operational, on the parks.

Project Goals Review: Apply Project Checklist.

Update base documents and redistribute to Team.

Adjust cost data for any project refinements or construction market changes.

MONTH 6

Complete Bid Documents and Filing Documents including specifications.

TEAM MEETING #8 (+ #9) - CONDUCT BID CONFERENCES

Answer Bidding RFI's.

Perform Bid Analysis.

Review Contract for Construction Services.

MONTHS 7+

Attend weekly construction meetings (remote vs on-site, TBD)

Answer Contractor RFI's.

Review Contractor Submittals.

Review Contractor Payment Applications.





Curtain Wall and Structural Detail, Sundial Lodge, NWR&S

The heavy timber structure for this project was fabricated in Vermont and shipped to the site in two tractor trailers. It was assembled on-site in less than a week.

POST-OCCUPANCY REVIEW

We would encourage to reconvene the design team for a post occupancy conference to evaluate the performance of the completed design after season of use has elapsed. Post-occupancy reviews are a valuable and under-utilized learning tool for institutional clients and design professionals to evolve their methodology. We can build commissioning into our services agreement, but an informal approach has been equally effective.



SECTION 3: APPENDIX

ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.:

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 rece	eived)	
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 rece I further understand that any verbal represent discussion held between Vendor's represent the information issued in writing and added binding.	ntation made or assumed to be mad tatives and any state personnel is n	le during any oral ot binding. Only
DRS Architects		
Company		
Authorized Signature		
9/28/21		
Date		

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

Revised 07/01/2021

document processing.

ACORD.

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 8/09/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER, THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(les) must have ADDITIONAL INSURED provisions or be endorsed.

this certificate does not confer any rights to the certificate holder in lieu of		ent on			
PRODUCER	CONTACT Collin Jackson				
USI Insurance Services, LLC	PHONE (AIC, No, Ext); 412 765-3510 (AIC, No):				
Six PPG Place, Suite 200	E-MAIL ADDRESS: Collin.Jackson@usl.com				
Pittsburgh, PA 15222	INSURER(S) AFFORDING COVERAGE	NAIC#			
412 765-3510	INSURER A: RLI Insurance Company	13056			
INSURED	INSURER B ; Mt. Hawley Insurance Company	37974			
DRS Architects, Inc.	INSURER C:				
One Gateway Center 17th Floor	INSURER D:				
Pittsburgh, PA 15222	INSURER E :				
ritisbuigii, rA 19222	INSURER F:				
COVERAGES CERTIFICATE NUMBER:	REVISION NUMBER:				
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAI INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDER	F ANY CONTRACTOR OTHER DOCUMENT WITH RESPECT TO WH	ICH THIS			

EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

MSR	TYPE OF INSURANCE	ADDL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	6
Α	X COMMERCIAL GENERAL LIABILITY		PSB0003690	08/14/2021	08/14/2022	EACH OCCURRENCE	\$1,000,000
	CLAIMS-MADE X OCCUR					DAMAGE TO RENTED PREMISES (Ea occurrence)	\$1,000,000
						MED EXP (Any one person)	\$10,000
						PERSONAL & ADV INJURY	\$1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:			ļ		GENERAL AGGREGATE	\$2,000,000
	POLICY X PRO-					PRODUCTS - COMP/OP AGG	\$2,000,000
<u> </u>	OTHER:						\$
Α	AUTOMOBILE LIABILITY		PSA0001857	08/14/2021	08/14/2022	COMBINED SINGLE LIMIT (Ea accident)	_{\$} 1,000,000
	X ANY AUTO					BODILY INJURY (Per person)	\$
1	OWNED SCHEDULED AUTOS					BODILY INJURY (Per accident)	\$
	X AUTOS ONLY X AUTOS ONLY					PROPERTY DAMAGE (Per accident)	\$
<u> </u>							\$.*
Α	X UMBRELLA LIAB OCCUR		PSE0002101	08/14/2021	08/14/2022	EACH OCCURRENCE	\$ 5,000,000
	EXCESS LIAB CLAIMS-MADE					AGGREGATE	\$5,000,000
	DED RETENTION\$						\$
Α	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY		PSW0002736	08/14/2021	08/14/2022	X PER STATUTE ER	
İ	ANY PROPRIETORIPARTNER/EXECUTIVE	N/A				E.L. EACH ACCIDENT	\$500,000
	(Mandatory in NH)				ļ	E.L. DISEASE - EA EMPLOYEE	\$500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below					E.L. DISEASE - POLICY LIMIT	\$500,000
В	Cyber Liability		PCY0000170	04/02/2021	04/02/2022	\$1,000,000 Aggregat	te
Α	Professional Liab		RDP0043051	04/19/2021	04/19/2022	\$1,000,000 Per Clain	n
						\$2,000,000 Aggregat	te
DESC	DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES /ACORD 101. Additional Remarks Schedule, may be altached if more space is required)						

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) **Evidence of Coverage**

CERTIFICATE HOLDER	CANCELLATION
DRS Architects, Inc. One Gateway Center 17th Floor Pittsburgh, PA 15222-0000	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE
	2 m Das