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## Header @ 1

 List View

## General Information

Contact

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Document Information

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Procurement Type: Central Contract - Fixed Amt

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Legal Name: DIEFFENBAUCH &amp; HRITZ LLC

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Total Bid: \$0.00

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Responded By User ID: DandHLLC 

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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:** 1834025  
**Solicitation Description:** A&E - Meadow River WMA Wetlands Project  
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Solicitation Closes	Solicitation Response	Version
2025-12-03 13:30	SR 0310 ESR12032500000003368	1

**VENDOR**  
VS0000019973  
DIEFFENBAUCH & HRITZ LLC

**Solicitation Number:** CEOI 0310 DNR2600000003  
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**FOR INFORMATION CONTACT THE BUYER**  
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<b>Vendor Signature X</b>	<b>FEIN#</b>	<b>DATE</b>
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All offers subject to all terms and conditions contained in this solicitation

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

Comm Code	Manufacturer	Specification	Model #
81101500			

Commodity Line Comments:

Extended Description:

Design and Contract Administration of a new wetlands area at Meadow River Wildlife Management Area.



## Meadow River Wetlands Project

Meadow River Wildlife Management Area

Greenbrier County, West Virginia

December 3, 2025

Submitted by:



**DIEFFENBAUCH & HRITZ**

Engineering | Survey | Environmental | Architecture

1095 Chaplin Road, Morgantown, WV | 304.985.5555 | [dandhengineers.com](http://dandhengineers.com)

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# Statement of Qualifications

## Dieffenbach & Hritz, LLC Corporate Profile

In 2005, Chris Dieffenbach, P.E. and Mike Hritz, P.E. wanted to bring a different culture to large scale engineering projects. With a focus on developing client relationships, Dieffenbach & Hritz (D&H) was established in Morgantown, West Virginia. Their first project, the Red Jacket section of King Coal Highway in Mingo County, was the first ever public/private partnership between a coal company and the West Virginia Division of Highways (WVDOT). In addition to the 12 miles of four-lane highway and connector roads, this project also included the preparation of the site on which the Mingo County High School and athletic fields are currently located. The project was completed and opened to the public in 2012. Since then, D&H has expanded to provide engineering support to clients in Virginia, Ohio, Pennsylvania, and North Carolina on a wide variety of public and private projects. While maintaining a focus on civil engineering at the forefront, the services D&H provide to clients has also expanded. D&H provides construction management and inspection, mechanical engineering, surveying, environmental compliance, geographical information systems, and aerial mapping services. These services allow D&H to provide a full spectrum of innovative engineering design methods and technology to take a client's ideas and turn them into reality. D&H is dedicated to building long-term relationships with clients to provide for immediate needs and partner on future opportunities.

The leadership team, including Chris Dieffenbach, Mike Hritz, Herbert Parsons, and Eric Stewart, brings a combined total over 100 years of civil engineering experience. D&H leadership also have over 50 years of combined experience on Abandoned Mine Land (AML) and Acid Mine Drainage (AMD) projects. In September 2022, D&H was awarded two projects for the WV Department of Environmental Protection (WVDEP), both located in Lewis County, WV. The projects include stabilization of dangerous landslides, road stabilization, and installation, repair and/or replacement of proposed and/or existing drainage controls and features including the installation of a new highway culvert, and utility relocation, all of which takes place around multiple residences. These projects include evaluation of sites, development of correction plans, all bidding documents and specifications, and construction management and inspection. An additional contract was awarded in December 2023 for 7 more projects and emergency projects in both 2024 and 2025.

D&H is currently providing routine monitoring on completed facilities, design and construction monitoring for maintenance projects, and mechanical design services. D&H has provided design and construction management for stormwater projects ranging from K-12 schools, car dealerships, and federal waterline projects among others.

Survey services are handled by our in-house staff of experienced surveyors who combine the technical expertise necessary to ensure successful project completion. Quality and accuracy are critical for every land survey project we undertake, regardless of its size or complexity. Service features include: Boundary Surveying, Plats, and Legal Descriptions; ALTA/ACSM Land Title Surveys; Topographic and

Planimetric Surveys; Corridor and Alignment Surveying; Utility/Infrastructure As-Built Surveys; Wetland Delineation Surveys; and Ground Control for Aerial Mapping among others.

Unmanned Aircraft System professionals work closely with Survey and Engineering professionals to provide LiDAR, high resolution ortho-mosaic imagery, digital surface models, volumetrics, contour and topographic mapping, as-builts, and stockpile volume. Using both multirotor and fixed wing drones, our fully licensed UAV pilots are able to cover a 50-acre site in about 2 hours with exponentially more data points collected. Additionally, the drones are used as part of our inspection services, saving valuable man hours with high accuracy using both RGB and thermal cameras.

The Environmental services group at D&H is experienced with any needs from delineations to Phase I inspections. Environmental Scientists are experienced with on-site research and data collection related to species that are endangered, threatened, or of special conservation interest. Ecological services include wetland and stream delineation studies and functional assessments, wetland and stream mitigation design and monitoring, biological water quality assessment, benthic macroinvertebrate surveys, and rare, threatened, and endangered species evaluations.

D&H utilizes landscape architects to ensure that the engineering design not only works but blends with the environment to enhance the overall site appearance. D&H's multi-disciplinary capabilities allow us to deliver fully integrated services under one roof. From feasibility studies and conceptual planning through construction documents, bidding support, and on-site administration, our team provides continuity and accountability throughout the project lifecycle. This streamlined approach reduces miscommunication, expedites schedules, and helps keep projects on budget.

We are excited about the opportunity to partner on this transformative development. With our proven expertise, responsive team, and dedication to client success, D&H is well-positioned to deliver a high-quality site that meets the stated goals of the Division of Natural Resources.

## Keys to Success

- Committed to achieving excellence in all aspects of work
- Valuing teamwork, communication, integrity, and pride in performance
- Focusing on continuous quality improvement to enhance outcomes
- Actively listening to and responding to client needs to deliver tailored solutions



## Core Services



Engineering



Survey



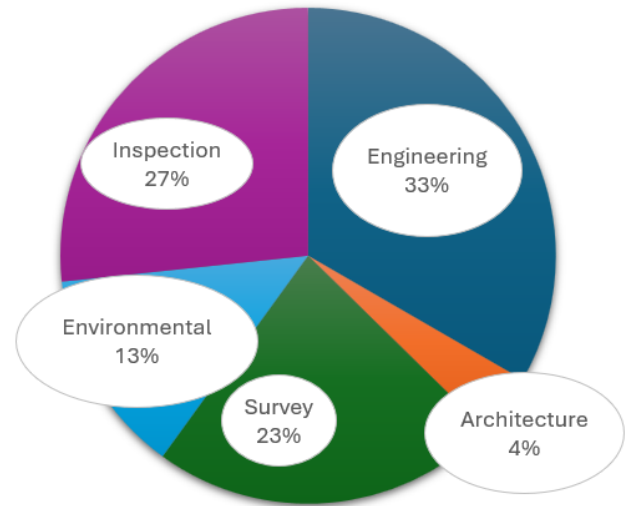
Environmental



Construction Inspection



Architecture



## Company Profile



Headquarters: Morgantown, WV  
Branch Offices: Bridgeport, WV |  
Abingdon, VA | Wilmington, NC



Professional Engineers: WV, PA, OH,  
VA, MD, NC



Professional Land Surveyors: WV,  
PA, VA, NC

Architects: WV, VA



Team Size: 75 Full-Time Staff



## Experience with Public Entities

Our team has extensive experience working with public-sector clients and on projects funded by multiple funding sources. This experience has given us a clear understanding of public project delivery expectations, funding compliance, and the importance of transparency, documentation, and stakeholder coordination.

Our past and current clients include:

- State agencies, including WVDOH, where we have 3 current bridge design projects, and WVDEP-AML, where we have recently completed the first of 8 Abandoned Mine Land reclamation projects.
- County governments, including Buchanan and Wise Counties (VA), where we have completed infrastructure and recreational facility projects funded through VDOT and federal sources.
- Town governments, such as the Town of Grundy (VA), where we have provided engineering design, survey, and construction support for sidewalk improvements, bike trails, and public spaces.

In each case, we have worked collaboratively with public officials, reviewed and met funding requirements, participated in public meetings, and provided detailed documentation to support grant reporting and reimbursement. This experience directly aligns with the expectations of a municipal on-call engineering contract.

## Compliance and Funding Experience

We have significant experience managing projects with complex funding structures, including both state and federal funds. Our team has completed several projects with federal funding, including WVDOH, WVDEP, WVDEP-AML, VDOT, PennDOT, US Army, National Forest Service, and NEPA-compliant designs, and is well-versed in the regulations and processes involved. We will ensure that this project complies with all necessary requirements and that funding is used efficiently and in accordance with the specific guidelines.

## Certifications & Prequalifications

D&H is fully qualified to support projects that involve state and federal funding streams, public bidding processes, and regulatory oversight. Our team and corporate registrations reflect our commitment to compliance, accountability, and accessibility to municipal clients.

## Certifications & Registrations:

- Registered Vendor with West Virginia State Purchasing Division
- Active registration with SAM.gov

## Prequalification & Compliance Experience:

Successfully delivered projects funded through WVDOH, WVDEP, WVDEP-AML, and federal grant programs while coordinating with municipalities and counties.

Familiar with documentation and procedural requirements for compliance with:

- Uniform Guidance (2 CFR Part 200)
- Davis-Bacon Act
- Build America, Buy America (BABA)
- Infrastructure Investment and Jobs Act (IIJA)

Our familiarity with these regulatory frameworks ensure we can help our clients manage funding compliance risk while supporting timely and accountable project delivery.

## Licensing & Insurance

D&H is a West Virginia-based engineering firm licensed to perform professional services throughout the state. We maintain all necessary professional registrations and insurance coverage to support municipal infrastructure projects and are fully prepared to meet the contract requirements of Braxton County Schools.

### Professional Licenses:

- West Virginia Board of Professional Engineers
- West Virginia Board of Professional Surveyors
- West Virginia Board of Architects

### Insurance Coverages:

- Commercial General Liability
- Professional Liability
- Automotive Liability
- Worker's Compensation and Employer's Liability

## Long-Term Commitment & Responsiveness

Being a West Virginia-based firm with team members who live in Marion County, we are accessible, invested, and ready to respond quickly to emerging needs. Our flexibility allows us to scale staff up depending on project complexity or schedule.

## Capacity and Availability

Our firm is well-positioned to begin work immediately upon award of this contract. With a multidisciplinary in-house team and a manageable current workload, we have the capacity and flexibility to meet immediate needs, future planning, and adapt to any evolving scope requirements.

## Staff Availability

Our core team for this project is available and committed, with the flexibility to:

- Scale up staffing if needed for schedule acceleration or additional scope
- Assign supplemental team members with relevant expertise

We have a demonstrated history of on-time delivery, even in projects with tight schedules and complex field conditions.

## Proximity to Project Site

With two West Virginia offices allows for:

- Efficient coordination with local agencies, stakeholders, and the client team through all phases
- Regular site visits throughout design and construction
- Responsive, on-the-ground support during key milestones

We consider our geographic proximity a major advantage – offering both logistical ease and the ability to maintain close collaboration throughout all projects.

# Technical Experience

D&H employs a suite of modern tools and platforms to streamline project delivery, enhance quality, and support collaboration with public clients, contractors, and stakeholders. Our investment in technology reflects our commitment to accuracy, responsiveness, and long-term project success.

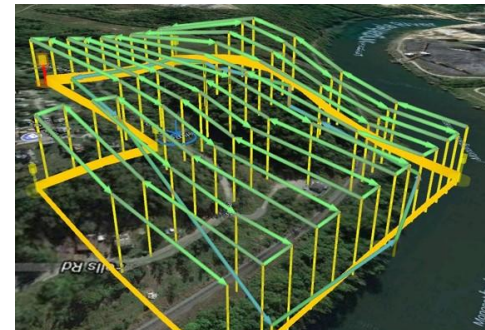
## Design & Drafting:

- **AutoCAD Civil 3D** – for site grading, utility layout, and roadway design
- **HEC-RAS** – for stormwater modeling and drainage analysis
- **Revit** – as needed for facility or architectural coordination



## Surveying & Field Data Collection:

- **Trimble GNSS Systems** – survey grade differential GNSS data collection used for construction layout, mapping, engineering and boundary surveying applications
- **Robotic Total Stations** – high accuracy boundary surveys and construction layout
- **UAVs** – aerial imagery and topographic mapping
- **LiDAR** – high-definition topographic mapping and reality capture

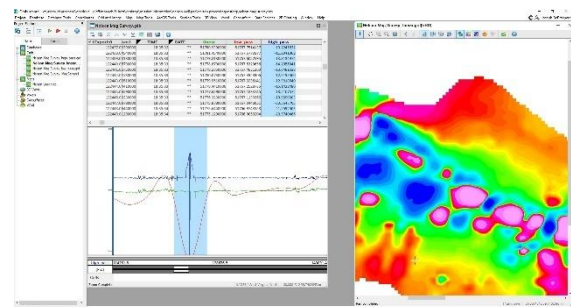


## Project Management & Communication:

- **Microsoft Teams** – for real-time team coordination and file sharing
- **Bluebeam Revu** – for digital plan review, markup, and collaboration with clients and reviewers
- **Deltek Vision** – for project budgeting, invoicing, and schedule tracking

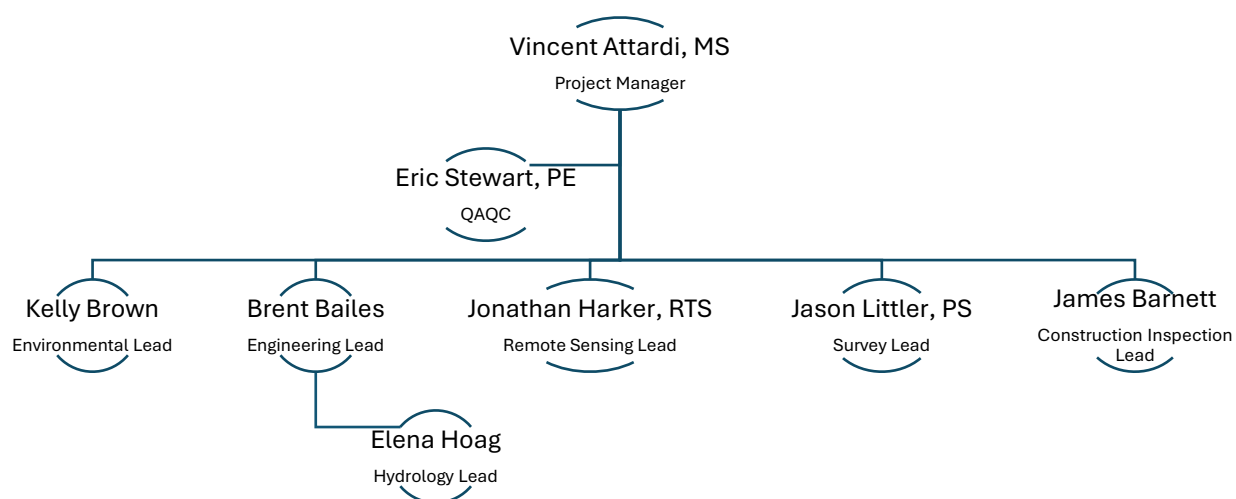
## GIS & Mapping:

- **ArcGIS** – water, sewer, and storm infrastructure mapping
- **ArcGIS Online** – real-time cloud integration and collaboration on mobile devices for asset management and inventory



These tools allow us to respond quickly to client needs, maintain high-quality deliverables, and provide clear documentation for every project phase.

## Key Personnel



The Meadow River Wetlands project will be led by **Vincent Attardi**, Environmental Services Manager. Mr. Attardi has a Bachelor of Science in Marine Science and Biology from the University of Tampa and a Master of Science in Biology from Rutgers University. Mr. Attardi has over 40 years of experience in environmental and ecological investigations and is a leading expert in project permitting under Sections 404 and 401 of the Clean Water Act.

**Mr. Eric Stewart, PE**, Vice President of Engineering, will act as the authorized offeror for this project and oversee the design of the engineering controls to be implemented and overall quality assurance/quality control. Mr. Stewart has over 20 years of experience in civil and environmental engineering. Mr. Stewart is a registered Professional Engineer in West Virginia, Pennsylvania, Ohio, North Carolina, and Tennessee.

**Ms. Kelly Brown** will serve as the Environmental Lead for the project. Ms. Brown has over 4 years of experience in environmental science.

**Mr. Brent Bailes** will serve as the Engineering Lead for the project. Mr. Bailes has a Bachelor of Science in Landscape Architecture from West Virginia University and over ten years of project management experience in civil design.

**Ms. Elena Hoeg** will serve under the guidance of Mr. Bailes and use her hydrology expertise to guide the project design.

**Mr. Jonathan Harker, RTS** will serve as the Remote Sensing Lead and will provide any necessary LiDAR or photogrammetry scanning needed for the project.

**Mr. Jason Littler, PS** will serve as the Survey Lead and will oversee any survey work needed for the project.

**Mr. James Barnett** will serve as the Construction Inspection Lead to oversee the project build.

*Full resumes for all are included in the appendix.*

# Project Approach

Our team will provide planning, investigation, design, and implementation support to develop waterfowl-optimized wetland habitat within the existing Wildlife Management Area. The scope includes evaluation of existing hydrology, soils, and subsurface drainage; identification of opportunities to manipulate water movement; and preparation of feasible, maintainable design solutions that minimize the impact to surrounding areas.

## Project Initiation & Background Review

- Conduct kick off meeting with the WV DNR to confirm habitat goals, hydroperiod targets, access constraints, and management considerations.
- Compile and review available data, including topography/LiDAR, soils mapping, historical aeriels, hydrology records, and any known tile mapping.
- Prepare a baseline GIS dataset and preliminary opportunities map.



## Field Reconnaissance

- Visit the site to assess existing drainage features, visible tile outlets, wetland pockets, channel conditions, and potential control locations.
- Verify general soil and vegetation conditions and identify areas needing further subsurface investigation.

## Hydrologic & Hydraulic Investigations

- Perform targeted stream hydrology assessment, including spot flow measurements, surveyed cross sections, and installation of temporary staff gauges or water-level loggers as appropriate.
- Evaluate overland drainage patterns and identify potential water delivery or retention points.
- Develop a preliminary hydrologic profile and water budget based on available flow and storage opportunities.



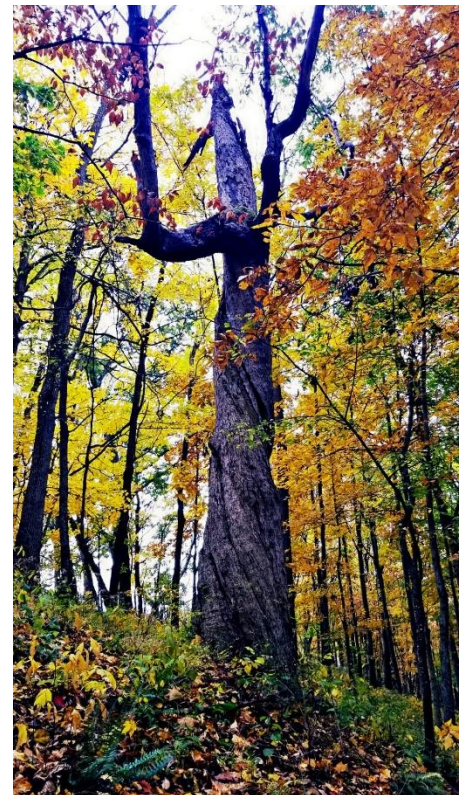
## Subsurface & Soil Investigations

- Excavate test pits or hand-auger borings to characterize soil texture, stratigraphy, and suitability for prolonged saturation/inundation.
- Identify hydric indicators, depth to seasonal water table, and any conditions that influence wetland formation or berm stability.
- Conduct infiltration or permeability testing as needed to support design.
- Map and assess historic or active agricultural tile systems using a combination of surface observations, test pits, and geophysical methods (if necessary).
- Locate outlets and confirm elevations to determine feasible reclamation, plugging, or selective rerouting options.



## Alternatives Development & Evaluation

- Identify strategic control points and develop conceptual hydrologic manipulation options, such as adjustable water control structures, berm modifications, shallow scrapes, or tile reclamation.
- Evaluate each alternative relative to hydrology, ecological benefit, constructability, and maintenance needs.
- Provide a concept alternatives summary with recommended approach.



## Design Development

- Prepare design drawings illustrating grading, control structures, berm alignments, tile modifications, and water-level management features.
- Provide preliminary quantities and design details suitable for permitting and budgeting.
- Produce an implementation-level plan set upon client direction.

- Design features will promote robust and simple to manipulate hydrologic controls that are easy to manage and maintain.

## Permitting & Construction Support

- Identify applicable regulatory requirements (state wildlife, wetlands, 401/4094, and local drainage rules).
- Prepare technical documentation and assist the client through the permitting process.
- Provide pre-construction coordination and contractor clarification.
- Perform construction inspection to confirm elevations, control structure installation, tile plugging, and soil/berm conditions.

## Post Construction Monitoring (Optional)

- Install water-level monitoring wells or staff gauges to document performance relative to design intent.
- Provide periodic monitoring summaries and adaptive management recommendations.

Wetland enhancement and waterfowl habitat design rely on a clear understanding of how water moves through a site – above and below ground. These conditions can be complex and are rarely apparent without thoughtful investigation. Our approach emphasizes doing this work thoroughly at the outset so that every design decision is grounded in real, site-specific information. This commitment to careful front-end assessment helps ensure that the final wetland system functions as intended and provides lasting ecological value for years to come.

# Previous Experience

## Marilla Park Stream Stabilization

**Location:** Morgantown, WV

**Client:** Friends of Deckers Creek, Brian Hurley, 304-292-3970

**Services Provided:** Stormwater Management, Stream Restoration

This environmental restoration project is located within the city of Morgantown, WV and sponsored by the Friends of Deckers Creek (FODC) using State grant funds. A natural stream design was requested for the restoration and stabilization of a heavily eroded gully near a popular park and adjoining trail in a highly trafficked area. The goal was to stabilize the stream banks, reduce erosion, and sedimentation using a design approach that would blend with the natural environment.

The target stream was a headwater intermittent channel receiving intensified stormwater volumes and flow rates due to the urbanization of the watershed. The increased hydrologic flow into the system caused extensive erosion of the upper reaches and sedimentation of the lower reaches. This sediment load was contributing to the pollution of the receiving stream, Deckers Creek.

An innovative plan was developed to economically address erosion and sedimentation issues while keeping an aesthetic and natural look to the system consistent with the park's nature trail theme. The design employed the use of step pools constructed with sandstone caprocks, bioengineered crib walls, and live staking designed to lower velocities, stabilize the channel, and protect the stream banks. A live cribwall design was incorporated at the initial plunge pool to protect a steep and currently unvegetated embankment. This will create a wall of willows where bare earth used to exist once the constructed project matures.

After receiving an acceptable bid at over double the cost of the construction budget, Dieffenbach & Hritz worked with FODC to reduce the quantities of certain design elements in order to reduce overall costs. Work is nearing completion.

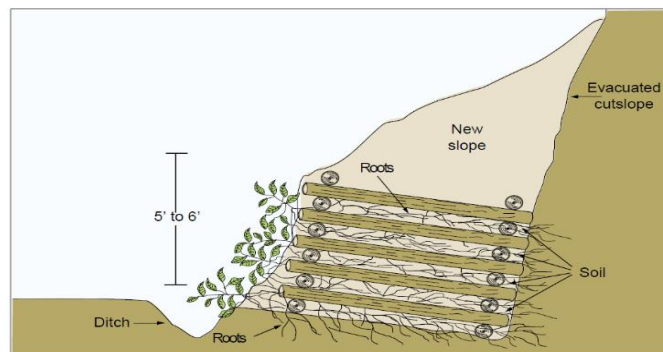
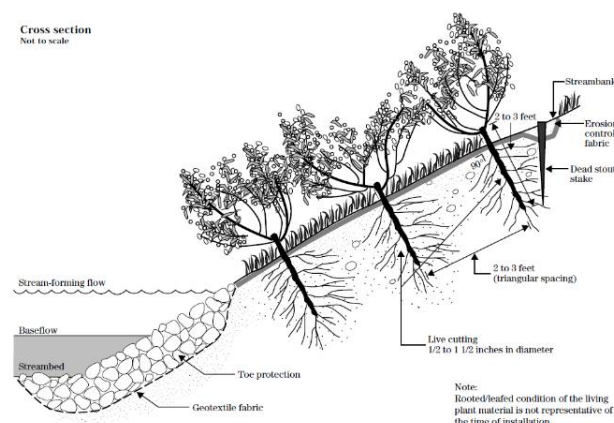


Figure 9. Cribwall example (from USFS, 2000 – Soil Bioengineering)



## Smith to M3 Wetland Mitigation

**Location:** Bentleyville, PA

**Client:** Equitrans, Erin Debias, 724-271-7378

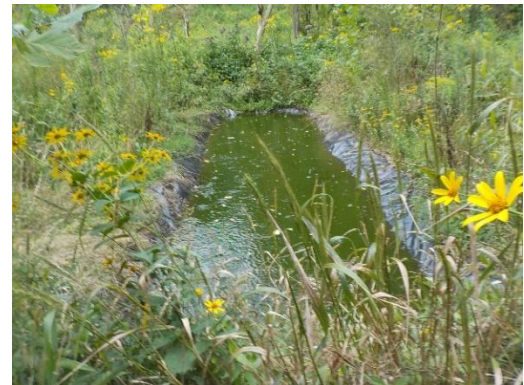
**Services Provided:** Engineering Design, Permitting, Wetland Mitigation

D&H designed, permitted, and monitored a wetland mitigation site to offset impacts from the Smith to M3 gas pipeline crossing of Pigeon Creek. The construction resulted in the permanent conversion of 0.160 acres of PSS (shrub-scrub) wetland and temporary clearing of upland riparian forest for workspace.



To satisfy statutory mitigation requirements, D&H developed an “out-of-kind” mitigation plan, restoring and converting 0.330 acres of the temporary workspace into a Riparian Forest/Vernal Pool complex. Key components included:

1. **Vegetation Planting:** Installation of 505 native trees and shrubs representative of riparian forest habitat.
2. **Herbaceous Cover:** Sowing of native herbaceous species appropriate for riparian forest development.
3. **Vernal Pool Construction:** For linear vernal pools, approximately 5 ft wide and 1.5 ft deep, constructed parallel to existing contours to support amphibian breeding.
4. **Hydrology Enhancements:** Use of vinyl liners to maintain open-water conditions, overlain with coir matting, with added tree limbs to increase habitat value.
5. **Monitoring & Reporting:** Annual monitoring for two years to ensure ecological success.



The mitigation successfully established a fishless amphibian breeding habitat and a thriving riparian forest/vernal pool complex. The site was released from monitoring after 2.5 years.



## Big Run Landfill Horizontal Expansion

**Location:** Boyd County, Kentucky

**Client:** Kenvirons/EcoSolutions

**Services Provided:** Waters field investigations, environmental permitting, and mitigation planning

*\*work performed by Mr. Attardi prior to joining D&H*

The Big Run Landfill is a 440-acre solid waste facility planning a horizontal expansion to meet increasing region disposal needs. As part of the permit application to the Kentucky Division of Waste Management, the project required comprehensive documentation of jurisdictional waters, sensitive environmental receptors, and habitat considerations, including Indiana bat surveys.

Mr. Attardi served as the project lead responsible for conducting field investigations and developing major permitting deliverables. Key responsibilities included:

1. Jurisdictional Waters Assessment: Detailed field delineation of streams and wetlands across the expansion area.
2. Documenting & Reporting: Preparation of a Jurisdictional Waters Determination Report and development of Section 404/401 Individual Permit applications.
3. Species & Habitat Surveys: Coordination and execution of Indiana bat habitat assessments and related ecological evaluations.
4. Mitigation Planning: Leadership in preparing conceptual and final mitigation designs addressing unavoidable impacts.

The mitigation plan included restoration of an adjoining perennial creek and creation, restoration, and enhancement of approximately 26 acres of on-site wetlands. The resulting palustrine habitats supported a diverse suite of wetland types, including open marsh, ponded areas, oxbow features, and hardwood bottomland swamp.

The project received authorization under a U.S. Army Corps of Engineers Individual Permit, with a comprehensive mitigation package supporting long-term aquatic and terrestrial habitat improvements for the expansion area.

## Cotton-Reiley Mitigation Bank

**Location:** Marshall County, Kentucky

**Client:** Kentucky Transportation Cabinet

**Services Provided:** Waters field investigations, environmental permitting, and mitigation planning

*\*work performed by Mr. Attardi prior to joining D&H*

This project involved the restoration of a 100-acre agricultural property to establish a wetland and stream mitigation bank supporting regional highway construction needs. The site, formerly an active soybean farm, required comprehensive evaluation to determine existing stream conditions, hydrology, and restoration potential prior to design. Mr. Attardi served as a project lead responsible for wetland restoration design and the development of all supporting permitting documentation for Section 404 and Section 401 approvals.

His responsibilities included conducting field assessments of onsite streams and wetlands, preparing detailed restoration and grading plans, and developing species-appropriate planting specifications to guide long-term habitat establishment. He also prepared the complete suite of 401/404 permit application materials and performed ecological uplift calculations to project anticipated mitigation credit generation.

The completed mitigation bank produced over 40 acres of wetland mitigation credit and more than 6,000 linear feet of stream mitigation credit.

## Wilcox Range Wetland & Stream Mitigation Plan

**Location:** Fort Knox, Kentucky

**Client:** U.S. Army Corp of Engineers

**Services Provided:** Wetland mitigation and restoration

*\*work performed by Mr. Attardi prior to joining D&H*

This project supported the construction of a Multipurpose Digital Training Range (MPDTR) at the existing Wilcox Range facility, which required federal authorization for impacts to approximately 12.3 acres of hardwood wetlands and 1,023 linear feet of perennial stream. Mr. Attardi served as Project Principal, leading the permitting effort and development of a comprehensive mitigation plan associated with the Section 404/401 Individual Permit.

His responsibilities included coordinating field assessments, preparing the wetland and stream mitigation design, and developing all supporting permit documentation. The mitigation strategy restored approximately 53 acres of wetlands near the Salt River, rehabilitated riparian vegetation along 1,023 linear feet of stream at Yano Range, and incorporated bioengineering-based habitat restoration along roughly 850 linear feet of Cedar Creek. The mitigation plan was closely integrated with the ongoing Environmental Impact Statement (EIS) addressing broader MPDTR project effects.

For his efforts in successfully securing permits and delivering a high-quality mitigation design, Mr. Attardi received an appreciation award from the Department of the Army.

# Appendix

## Full Project Team Resumes



## Environmental Services Manager

Vincent J. Attardi, M.S.



DIEFFENBAUCH & HRITZ

Mr. Attardi has over 40 years of experience conducting environmental and ecological investigations throughout the eastern United States. He is an aquatic ecologist by training and a leading expert in project permitting under Sections 404 and 401 of the Clean Water Act (CWA). Mr. Attardi has overseen the environmental investigation and permitting of over 500 projects during his time at Dieffenbach & Hritz. These investigations were primarily conducted in support of oil and gas projects. He is proficient in wetland and stream services (delineation, mitigation, restoration, permitting), endangered species habitat assessments, botanical surveys, soil assessments, aerial photo interpretation, NEPA documents, natural resource management plans, and other natural resource investigations.

### Company Role, Environmental Services Manager

Mr. Attardi is responsible for the development and management of program and personnel that comprises the entirety of Environmental Services offered to our clients and in support of our engineering and construction Service sectors. Key roles include development and implementation of the quality assurance program, development of standard operating procedures, scheduling, technical expertise, technical mentoring, personnel management, budgeting, project management, and business development.

### Project Role, Environmental Manager:

As the Environmental Coordinator, Mr. Attardi will coordinate route development services to determine the most economic route with the least environmental impact. He will establish data collection protocols and data management processes to ensure integrity of field collected data and reporting. Mr. Attardi will routinely coordinate with the client and regulators to ensure project compliance permitting guidelines and other regulatory agencies.

### Summary of Projects:

#### Slip Repair Permitting; SGG & AGS Pipeline Systems, DT Midstream (DTM), North Central WV; 2018 - Present:

For the past six years, Mr. Attardi has served as the project manager for DTM (formerly DTE). During that time, he has managed environmental and engineering services in support of the DTM Slip Repair Program along their SGG and AGS Pipelines. Services included wetland/stream delineations, Erosion and Sedimentation Control Plans (ESCPs), Stormwater Pollution Prevention Plans (SWPPs), Groundwater Protection Plans (GPP) Stormwater Construction Permits,

## DETAILS AND ACHIEVEMENTS

### Experience

Total: 44 years

With D&H: 11 Years

### Education

M.S. Biology, Rutgers University

B.S. Marine Science / Biology, University of Tampa

## PROFESSIONAL CERTIFICATIONS

### Sewage Enforcement Officer

PA – No. 3900

### Certified Erosion Prevention & Sediment Control Inspector

SC – No. 11804

## CORPORATE AFFILIATIONS

- Society of Wetland Scientists
- Pennsylvania Association of Sewage Enforcement Officers
- GOWV Environmental Committee
- Pennsylvania Independent Oil and Gas Association (PIOGA)

**Environmental Services Manager**  
**Vincent J. Attardi, M.S.**



USFWS Consultation, Habitat Assessments, and Environmental Compliance Summary Reports. Mr. Attardi has also managed other projects and services for DTM including Bat Emergence Surveys, Environmental Inspections, Spill Prevention, Control, and Countermeasures (SPCC) Plans, Floodplain Permitting, and DOH Permitting.

**Morgantown Connector Pipeline; North Central WV; 2023-2025:**

Major upgrade of an existing service distribution gas pipeline in Monongalia and Marion Counties. The pipeline spans approximately 30 miles and will generally replace an existing 8 " line to a 16" line. Mr. Attardi is the project manager of the D&H services being provided for this line. D&H is providing wetland/stream delineations, Section 404/401 permitting, USFWS coordination, WVDNR/OLS Permitting, Mussel Survey coordination, WV State Historic Preservation Officer coordination, Archaeological Survey coordination, SWPPP/GPP and Stormwater Construction Permits, Floodplain Permitting, and Environmental Inspections.

## Vice President of Engineering

**Eric N. Stewart, P.E.**



**DIEFFENBAUCH & HRITZ**

Mr. Stewart has over 20 years of experience in the civil and environmental engineering field. As the Vice President of Engineering for Dieffenbach & Hritz, Mr. Stewart uses his broad experience base to expand project development with both public and private sector clients. Mr. Stewart has accumulated an extensive range of experience in the regulatory, planning, well permitting, location construction, pipeline, and midstream facility of the oil & gas industry in the Marcellus and Utica Shale. Also, through his career he has gained valuable experience with projects in the transportation, environmental compliance, mining, water resources and commercial site development fields in many states.

### **Company Role, Vice President of Engineering:**

As VP of Engineering, he manages a diverse engineering team and is responsible for ensuring that design requirements are met, oversees the consistency of client experiences, and manages a team of engineers and designers. He coordinates procedures as well as working closely with clients and regulatory agencies to ensure the company is at the forefront of design and regulatory adherence.

### **Project Role, Professional Charge:**

Mr. Stewart is assigned professional charge on many projects for the engineering and construction management departments. For this project he will be responsible for ensuring that the product vision is realized through excellence in execution. A critical key to quality control includes redundant professional reviews. D&H has a Client Manager in charge of projects and a designated Professional will provide independent review of each deliverable. This process assures unbiased results and quality deliverables. Professional charge assignments include permitting, engineering, survey, and construction management deliverables for a variety of projects.

### **Summary of Experience:**

#### **Upland Run AMD, WVDEP Office of Abandoned Mine Lands and Reclamation, Weston, Lewis County, West Virginia**

This project is currently in an active status with the WVDEP (D&H received notice to proceed on July 26, 2023). Mr. Stewart has been assigned the Project Engineer Role. He will oversee the engineering design plan and review and certification of the final project. This project involves 5 slip areas requiring stabilization on 15 acres and repair/replacement of a deteriorating drainage system with sediment transport to eliminate flooding issues affecting structures and a state road.

## **DETAILS AND ACHIEVEMENTS**

### **Experience**

Total: 21 years

With D&H: 10 years

### **Education**

B.S. Civil Engineering, West Virginia University

## **PROFESSIONAL REGISTRATIONS**

### **Professional Engineer**

WV – No. 17972

NC – No. 056025

OH – No. E-84089

PA – No. PE088625

TN – No. 128163

## **CORPORATE AFFILIATIONS**

- GPA Midstream Appalachian Basin (ABGPA Midstream)
- Gas & Oil Association of West Virginia (GO-WV)
- Pennsylvania Independent Oil and Gas Association (PIOGA)

**Weston (Curtis) Landslide, WVDEP Office of Abandoned Mine Lands and Reclamation, Weston, Lewis County, West Virginia**

This project is currently in an active status with the WVDEP (D&H received notice to proceed on July 26, 2023). Mr. Stewart has been assigned the Project Engineer Role. He will oversee the engineering design plan and review and certification of the final project. This project involves three slip areas requiring stabilization on 5 acres, road stabilization, and the installation, repair and/or replacement of various drainage controls and features.

**2023 AML Contract N2, Marion County and Harrison County, West Virginia**

This project is currently in an award status with the WVDEP (D&H received notice of award on December 7, 2023). Mr. Stewart has been assigned the Project Coordinator Role and will be the Engineer of Record for design. He will participate in the initial site planning meetings, scoping meetings, cost negotiations, surveying, subsurface investigation review, Realty contacts and negotiations, engineering design plan and review and construction administration and certification of the final project. Multiple projects are included in this award over 6 unique sites in two counties. One project is the stabilization of subsidence that threatens multiple residences. The remaining projects are slip stabilization and highwall reclamation.

**NV113 Engineering & Design, Monongalia County, West Virginia**

Engineering Manager responsible for the structural design, construction inspection and survey services for a 30-foot pre-cast, pre-stressed box beam bridge deck to span an existing pipeline. The structural design consisted of engineering plans, structural calculations for the concrete bridge beams, abutments, approach/sleeper slabs and wing walls for the project.

**Energy Cynic to Soles Waterline, Wetzel County, West Virginia**

Engineering Manager responsible for the completion of survey, engineering, permitting, and construction services associated with the installation of approximately 27,500 LF a 20-inch HDPE waterline located between Littleton, West Virginia and Springhill Township, Greene County Pennsylvania. Coordinated activities between disciplines, performed design calculations and provided construction administration services.

**MAJ10 Tank Containment Wall Design, Monongalia County, West Virginia**

Engineering Manager responsible for the structural design, construction inspection and survey services for a secondary containment wall for two 132 feet diameter storage tanks. This secondary containment has a cumulative volume of 7.2 million gallons and the steel lagging wall stands 12 feet in height.

**Titan Impaired Waterlines, Belmont County, Ohio**

Engineering Manager responsible for hydraulic models, pump head curve, helical pile spacing, surge calculations and hydrostatic testing parameters associated with the installation of approximately 740 LF of 12" HDPE DR11 waterline located in Belmont County, Ohio.

## Project Manager

Kelly J. Brown



DIEFFENBAUCH & HRITZ

Ms. Brown joined Dieffenbach & Hritz as an Environmental Technician and progressed to Environmental Scientist I before advancing to the position of Project Manager. Ms. Brown brings extensive educational experience and competencies in a wide range of environmental assessments and surveys to her role at D&H.

### Company Role, Project Manager:

The Project Manager schedules, performs, documents, and/or coordinates routine environmental field investigations including stream/wetland delineations, habitat assessments, botanical surveys, soil infiltration testing, and Phase I site assessments. This role also prepares reports to document field survey results, permit applications, consults with agency staff as required under Sections 404 and 401 of the Clean Water Act and the Endangered Species Act, prepares biological inventories and NEPA documents, and communicates directly with client managers to develop service support strategies.

### Project Role, Environmental Lead:

Ms. Brown will lead field investigations, conduct data collection, staff gauge installations, and environmental inspections including water quality assessments, portal surveys of eastern bat species, macrobenthos and aquatic vegetation surveys, Monitoring Avian Productivity, and Survivorship surveys (MAPS), electro-fishing analysis for species diversity, wetland delineations according to the U.S. Army Corp of Engineers *Wetland Delineation Manual* and regional supplements, stream assessments, and complete permit applications.

## DETAILS AND ACHIEVEMENTS

### Experience

Total: 4 years

With D&H: 4 years

### Education

M.S. Agriculture, Natural Resources, and Design, West Virginia University

B.S. Biology, Glenville State College

## PROFESSIONAL CERTIFICATIONS

- Public Land Corps Certified
- 1598 USGS Hazard Communications
- Wetland Delineation Certification

## Sr. Project Manager

**Brent K. Bailes**



DIEFFENBAUCH & HRITZ

Mr. Bailes has accumulated over ten years of project management experience in civil design. As a Senior Project Manager, he has developed a broad experience base and extensive project development with public and private sector clients. He has led teams on complex projects that require coordination of disciplines, technical studies, environmental permitting, and multiple agencies and stakeholders. Specific areas of design include commercial and residential site planning, renewable energy, conventional energy, transportation projects, utilities, hydrologic and hydraulic studies, erosion and sediment control plans and permit documents.

### **Company Role, Sr. Project Manager:**

Mr. Bailes is responsible for managing the design, permitting, and construction activities for energy projects. Projects may include but are not limited to oil and gas well sites, pipelines, and midstream facilities, private/commercial/industrial site plan development and road upgrades. The Sr. Project Manager is assigned as the main point of contact to clients and regulatory bodies, attends project meetings, performs engineering design and calculations, and reviews final project deliverables.

### **Project Role, Engineering Lead:**

Mr. Bailes will be responsible for supervising the design and permitting process, ensure final deliverables meet state and government regulations and the project specifications and requirements.

### **Summary of Experience:**

#### **Oil & Gas Well Pad Site Design, Various locations in WV, PA & OH**

Mr. Bailes has been the project manager of the engineering design and permitting for the development of over 50 new oil and gas well pads. Responsibilities have included: environmental permitting, E&S Control, PCSM design, access road site development, coordination of supplemental disciplines, subconsultants, client communication and submissions of permit applications to necessary county, state, and federal agencies for necessary permits for construction.

#### **County Road Upgrade Design, Various locations in WV, PA & OH**

Mr. Bailes has been the project manager of the engineering design of roadway upgrade for over 20 roads. Responsibilities include environmental permitting, E&S control design and grading and earthwork for waste areas, coordination of coordinating disciplines, clients, local and state agencies.

## **DETAILS AND ACHIEVEMENTS**

### **Experience**

Total: 19 years

With D&H: 16 years

### **Education:**

West Virginia University,  
B.S. Landscape Architecture  
2005

### **Safety Training**

Safeland (PEC)

OSHA 10

RigPass

### **CORPORATE AFFILIATIONS:**

Gas & Oil Association of  
West Virginia (GO-WV)  
Pennsylvania Independent  
Oil and Gas Association  
(PIOGA)

## Project Engineer I

### Elena Hoeg



DIEFFENBAUCH & HRITZ

Ms. Hoeg has over thirty years of experience in engineering with more than 20 years in civil engineering. Ms. Hoeg has focused her experience in performing engineering calculations and design of hydrological issues related to stormwater management. She has worked extensively with federal, state, and local agencies to secure permits and resolve related compliance issues. Ms. Hoeg is an experienced user of HEC-RAS, CHECK-RAS, AutoCAD, RiverCAD, FlowMaster, Culvert Master, Hydraflow Hydrographs and Storm Sewer, TR-55, Civil Storm, and ArcGIS.

#### Project Role, Project Engineer:

Responsibilities include assisting with the development of plans, permit packages, specifications, engineering calculations, and reports

#### Summary of Projects:

##### Bridgeport (Tomes) Landslide – Harrison County, WV

Performed stormwater calculations for the design of mitigation measures in a WV DEP Abandoned Mine Lands project.

##### Upland Run (Harrison) AMD and Drainage – Weston, WV

Performed hydrology and hydraulic analysis to complete the design of a stormwater system to mitigate issues as part of a WV DEP Abandoned Mine Lands project.

##### Oil & Gas Well Pad Site Design – Various locations in WV & PA

Ms. Hoeg has assisted in the design of new oil and gas well pads including environmental permitting, E&S Controls, PCSM design, access road site development, and submissions of permit applications to necessary county, state, and federal agencies for necessary construction permits.

O&G well sites require design and calculation of a variety of permanent stormwater features. In addition to stormwater conveyance, Ms. Hoeg is experienced in post-construction stormwater control structures such as sediment basins, wet and dry retention ponds, infiltration ponds, sub-surface storage, rain gardens, bio-infiltration, and others. Permanent features such as access roads and large grading often impact established floodplains. Ms. Hoeg is experienced in evaluating pre- and post- construction floodplain conditions with detailed H&H studies and writing reports to demonstrate the impacts to established FEMA floodplain boundaries.

## DETAILS AND ACHIEVEMENTS

### Experience

Total: 31 years

D&H: 5+ year

### Education:

M.S. Civil Engineering, West Virginia University

M.S. Chemical Engineering, St. Petersburg State Institute of Technology

B.S. Chemical Engineering, St. Petersburg State Institute of Technology

**Project Engineer I**  
**Elena Hoeg**



**Experience prior to D&H:**

**WVU Basketball Practice Facility – Morgantown, WV**

Designed a storm drain system, performed stormwater management calculations, performed hydraulic analysis to obtain stormwater permits from WV DEP for a 64,000 square foot practice facility.

**WVU Soccer Practice Facility – Morgantown, WV**

Performed stormwater management calculations, hydraulic analysis, and designed a storm drain system for a 120 X 74 foot natural grass practice facility, assisted in obtaining WV DEP stormwater permits.

**Garret Mine Supply – Morgantown, WV**

Performed hydrology and hydraulics study for a land development project located in a floodplain.

**CR-31 Bridge Replacement – Harrison County, WV**

Performed hydraulic analysis for a bridge replacement project using HEC-RAS stream profile simulations for the existing and proposed bridges to provide adequate conveyance for a 100-year storm event.



## Remote Sensing Manager

### Jonathan M Harker, CMT-RS



DIEFFENBAUCH & HRITZ

Mr. Harker has accumulated more than 7 years of geomatics experience within civil engineering and surveying in communications, government, mining, oil & gas, power, renewable energy, site development, and transportation sectors. As a Project Manager, he has developed a broad experience base with public and private sector clients. He has led and worked within teams on complex projects involving data acquisition and analysis, GIS design and implementation, topographic mapping, overhead utility modeling and simulation, and landslide identification for projects of all sizes across the United States.

#### Company Role, Remote Sensing Manager:

In his current position, Mr. Harker is responsible for overseeing all aspects of remote sensing tasks including but not limited to office and field operations for aerial mapping, photogrammetry, lidar, mobile, and terrestrial laser scanning. He is also responsible for overseeing and assuring the quality of all remote sensing deliverables and adherence to mapping standards.

#### Summary of Projects:

##### Mt Zion to Norbeck LiDAR, Olney, Montgomery County, MD\*

Mr. Harker served as Project Manager in charge of overseeing the financial success and client satisfaction of a project containing a 4.5-mile 345kV electric transmission circuit. He led a team to collect UAV LiDAR and imagery sufficiently to produce the client requested deliverable. This project consisted of crew and staff coordination, LiDAR classification, Orthomosaic production, meteorological data processing, PLS-CADD feature coding, and catenary string modeling. This deliverable was used by the client to confirm wire tensioning issues and lead to a complete restringing of the circuit. Following the restringing, an as-built PLS-CADD model was developed from a final field mobilization.

##### RGV-08 Border Infrastructure Project, Roma, Starr County, TX\*

Mr. Harker was responsible for developing and maintaining a web-based GIS interface to act as a project hub where field staff and clients could access important documents relating to landownership and right of entry, border fence installation progress, and daily inspection reports in a central location. In addition, he coordinated field crews and office staff to facilitate aerial mapping efforts and deliverable creation pertinent to patrol road and border fence layout and design.

##### Rockefeller Public Road Upgrade, Mannington, Marion County, WV

Mr. Harker served as Project Manager to provide aerial mapping services for 6.7 miles and 164 acres of existing roadway. He was responsible for the coordination of field and office work which included an aerial control survey, LiDAR processing, breakline extraction, deriving 2D planimetry, and Orthomosaic production. The mapping deliverable was used to develop a road design advantageous for oil & gas production.

\* Work performed prior to joining Dieffenbach & Hritz, LLC

#### DETAILS AND ACHIEVEMENTS

##### Experience:

Total: 7 years

With D&H: <1 year

##### Education:

B.A. Geography,

West Virginia University

#### PROFESSIONAL

##### REGISTRATION(S):

**Certified Remote Sensing Technologist**

RST247

#### CORPORATE

##### AFFILIATION(S):

American Society for  
Photogrammetry and  
Remote Sensing

## Survey Services Manager

Jason H. Littler PLS



DIEFFENBAUCH & HRITZ

Mr. Littler has accumulated more than 27 years of project management experience in civil engineering and surveying. As a Survey Services Manager, he has developed a broad experience base and extensive project development with public and private sector clients. He has led teams on complex projects that require coordination of disciplines, technical studies, environmental permitting, and multiple agencies and stakeholders. Specific areas of surveying include renewable energy, conventional energy, transportation projects, utilities, commercial and residential site planning, erosion and sediment control plans and permit documents. 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 Role, Survey Manager & QA/QC:

Responsible professional in charge of overseeing survey projects including but not limited to crew and staff coordination, boundary, mapping, as-builts, quantities and geodetic control. Mr. Littler is also responsible for overseeing and assuring the quality of all deliverables and management practices of all disciplines. This includes overseeing critical events, attending client or stockholder meetings. As well as participating in kick-off and milestone meetings, preparing a project specific quality control plans and project execution plans.

### Summary of Experience:

#### Upland Run AMD and Weston (Curtis) Landslide, WVDEP Office of Abandoned Mine Lands and Reclamation, Weston, Lewis County, West Virginia

These projects make up Contract 7 with the WVDEP and are in active status. Mr. Littler is the Project Manager and has been involved with the initial site planning meetings, scoping meetings, cost negotiations, surveying, subsurface investigation review, realty contracts and negotiations, and pre-bid document preparation and meeting.

#### Northern and Southern Mapping Services, WVDEP Office of Abandoned Mine Lands and Reclamation, Multiple locations, West Virginia\*

Mr. Littler served as Survey Project Manager in charge of surveying and mapping on two separate contracts consisting of 3-year assignments with the WVDEP and involved surveying and mapping services to be used for the design and construction of Abandoned Mine Land projects located throughout the state. Mr. Littler successfully completed mapping of 93 individual projects over 10,800 acres and was responsible for the client maintenance, field visits, billing, invoicing, and oversight.

*\*Work completed prior to joining D&H.*

## DETAILS AND ACHIEVEMENTS

### Experience

Total: 27 years

With D&H: 2+ years

### Education

B.S. Engineering

Technology and Surveying

A.S. Civil Engineering

Technology,

West Virginia Institute of  
Technology

## PROFESSIONAL REGISTRATION

### Professional Surveyor

WV – No. 2139

PA – No. SU075719

OH – No. 8925

## CORPORATE AFFILIATIONS

West Virginia Society of  
Professional Surveyors

## Construction Inspection Services Manager

James Barnett, Jr., CBSI



DIEFFENBAUCH & HRITZ

Mr. Barnett has over thirty years of experience in survey, civil design, oil and gas, construction, and project management. Mr. Barnett brings his knowledge of multiple fields and various positions to D&H as the Construction Inspection Services Manager.

### **Company Role, Construction Inspection Services Manager:**

Responsible for the oversight and management of all aspects of the construction department, including the financial performance for the department, project performance, staff management, ensuring quality control and collaboration with clients and onsite contractors to ensure client satisfaction.

### **Project Role, Construction Inspection:**

Responsible for supervising, QA/QC, and ensuring final deliverables meet safety regulations and project specifications and requirements.

### **Experience prior to D&H:**

#### **Dogs Pad Access Rd Bridge, McKenzie County, ND\***

Served as Project Engineer/Construction Inspection for the Dogs Pad Bridge Project, a roadway improvement project for an Oil/Gas Pad with a conspan bridge structure private access road. Civil engineering services included development of the bid documents, holding pre-bid meetings, bid opening, construction inspection, and project oversight.

#### **CR 31 Bridge Preplacement, Harrison County, WV\***

Served as Project Engineer/Construction Inspection for the CR 31 Bridge Replacement Project, a roadway improvement project with a conspan bridge structure on WVDOH County Route. Civil engineering services included development of the bid documents, holding pre-bid meetings, bid opening, construction inspection, and project oversight.

#### **CSXT, various sites\***

Served as the Project Engineer responsible for construction monitoring representative on various projects performed on CSXT property by outside parties. Reviewed construction plans and shop drawings for approval. Site inspection for compliance with approved plans, techniques, and adherence to CSXT safety rules and regulations. These projects included but were not limited to overhead bridges, roadway crossings at grade, utility relocations bored and jacked pipes and tunnels under the railroad.

## **DETAILS AND ACHIEVEMENTS**

### **Experience**

Total: 30+ years

D&H: >1 year

### **Education:**

Pre-Engineering Drafting & Design Certification,  
M-Tech, Morgantown, WV

### **Certifications:**

PEC Safeland  
SEFSAM Training  
Nuclear Gauge Training  
Transportation Engineering  
Tech Trainee – Level I  
Safety Inspection – In-Service Bridges  
OSHA Construction Safety Leader  
MSHA Surface Mine Safety

## Construction Inspection Services Manager

James Barnett, Jr., CBSI



DIEFFENBAUCH & HRITZ

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### **Fort Henry Bridge Inspection, Wheeling, WV\***

Bridge inspection team and Safety Leader for the Fort Henry Bridge, a 10 span steel structure with the main span being a tied arch measuring 580 feet in length. The remaining 9 spans include four two-girder spans and five multi-beam spans for a total bridge length of 1,660 feet. This bridge carries Interstate 70 traffic over the Ohio River in Wheeling, WV.

### **GenPower, LLC, Morgantown, WV\***

Inspection Team and Safety Leader responsible for the inspection of three abandoned railroad bridges to determine the feasibility of using the existing bridge to carry utilities and pedestrian live loads. Bridge No.1 was a four, single-span truss bridge that is not in service. Bridge No. 2 was a single-span truss bridge utilized by GenPower for vehicle traffic. And Bridge No. 3 was a single-span truss bridge that was not in service.

### **Evansdale Residential Housing Complex, West Virginia University, Morgantown, WV\***

Member of the investigative team and served as the Site Safety Coordinator, participated in field testing and on-site investigation of brick veneer and limestone panel anchor placement and structural integrity on the high-rise portion of this four building, 10-story dormitory complex with the use of swing stages. Performed structural analysis of the brick veneer and limestone panel anchor placement and made recommendations to the client.

### **The Monongahela River Center, Morgantown, WV\***

Served as construction inspector for the Waterfront Marina, a multi-use waterfront facility in the historic Wharf District. Civil engineering services included development of the site layout plan, site grading, site drainage, boat dock design, and construction inspection.

*\* Work performed prior to joining Dieffenbach & Hritz, LLC*