



EXECUTIVE SUMMARY

DIEFFENBAUCH & HRITZ

Morgantown, WV

Prepared for:	West Virginia State University
Date:	March 15, 2024
Title:	A&E Services – WVSU – WVSU Roof Replacements for Multiple Facilities
Solicitation Number:	AEOI WSC240000003



DIEFFENBAUCH & HRITZ

Experience Peace of Mind With Engineering Design Services & Construction Management by D&H

Scope

D&H understands that West Virginia State University requires engineering design services and construction management oversight for roof replacements at Hill Hall, Cole Complex, and Wilson University Union.

D&H appreciates the value of infrastructure improvement projects to protect valuable assets, ensure a safe and conduction learning environment, and contribute to overall campus sustainability. Completing infrastructure projects on time and on budget with minimal interruption to the institution is critical to the success of such projects.

Our Approach

- ➔ Project meeting with West Virginia State University Purchasing Office, Department of Physical Facilities, and other stakeholders
- ➔ Evaluation of existing roof structures and any roof top equipment
- ➔ Preparation of engineering drawings and specification and contractor bidding package
- ➔ Assistance with evaluation of contractor bids as needed
- ➔ Preparation of contract documents
- ➔ Full construction management from the bid award through to final inspections.

Expression of Interest
prepared for:





Communication

Our team strives for transparent & effective communication with our clients.

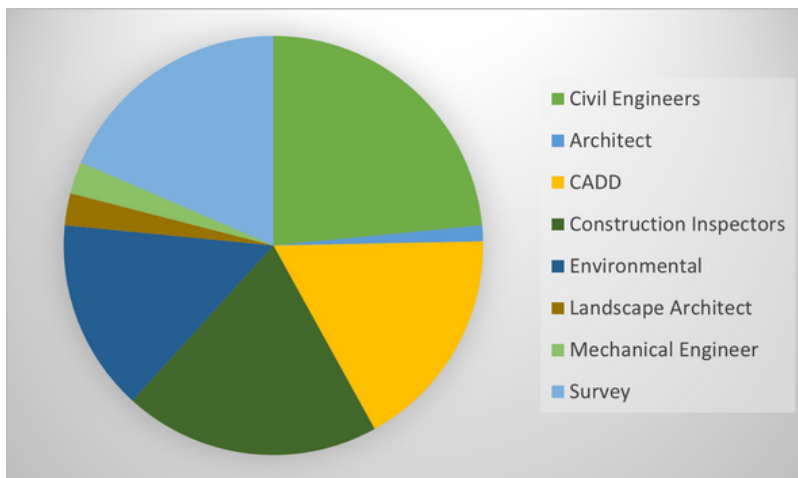
We will work closely with you to:

- ➔ establish clear channels
- ➔ decide on the frequency of updates
- ➔ develop content tailored to your specific needs

Our approach ensures a collaborative partnership throughout the project.

Our Experience

D&H has both the technical expertise and capacity to deliver engineering design and construction management for your project.



Expression of Interest
prepared for:





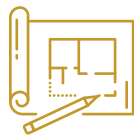
DIEFFENBAUCH & HRITZ

Your Team

For this project, D&H leaders will be made accessible to you directly.



You'll work with Senior Mechanical Engineer, Madelaine Shultz, who has 15 years of experience in residential and commercial facilities management and over 20 years engineering experience overall.



Structural and Architectural support will come from James Osborne of Osborne Design Studios. James has over 24 years of experience as an architect and engineer.



Construction Management will be overseen by Robyn Smith, who has over 35 years of experience in the civil engineering, mining, and construction management fields.

Expression of Interest
prepared for:



Senior Mechanical Engineer Madelaine Shultz



DIEFFENBAUCH & HRITZ

Ms. Shultz is a recent addition to the staffing at D&H. Ms. Shultz brings strong time management and multitasking skills along with adaptability and flexibility in changing environments. Previous experience operating a multi-disciplinary business gives Ms. Shultz a unique perspective on project timelines, budgets, and deliverables. She knowledgeable about construction plans and technical specifications and experienced with various CAD programs and pipe stress analysis.

Company Role, Senior Mechanical Engineer:

The Senior Mechanical Engineer is a lead on projects assisting the practice leader with budgets, technical responsibilities, and schedules. Technical responsibilities include but are not limited to: Makes advanced design decisions, reviews plans, details, specifications, and other documentation; completes advanced engineering designs of the project; and reviews designs for compliance with engineering principles, client contract requirements, and related specifications.

Project Role, Sr Mechanical Engineer:

Responsible for supervising, designing, and ensuring final deliverables meet pipeline safety regulations and project specifications and requirements by direction of practice manager.

DETAILS AND ACHIEVEMENTS

Experience

Total: 23 years

D&H: <1 year

Education:

B.S. Mechanical

Engineering,

Indiana Institute of

Technology



Project Engineer

James Roger Osborne II, P.E., Architect

DIEFFENBAUCH & HRITZ

Mr. Osborne has 24 years of experience in providing architecture and engineering services to private and government clients including projects that are funded by federal, state, and local government agencies. Mr. Osborne has a broad range of experience in architecture, civil, and structural engineering including pre-design, construction estimating, building, bridge, and non-building structural design, 3D visualization, retaining wall design, site and road design.

Project Role, Project Engineer

Responsible professional in charge of overseeing all aspects of project design, staff coordination, and quality assurance of all deliverables.

Summary of Experience:

Copper Creek Stream Restoration & Bridge Replacement, Castlewood, Virginia

Engineer responsible for design of concrete abutments for a prefabricated steel bridge to replace an existing out of service low water bridge.

CNX NV113 Well Site Bridge, Washington County, Pennsylvania

Engineer responsible for design of a 40 ft clear span concrete bridge located along existing road to clear existing gas utilities.

Porterfield Memorial Replacement Bridge, Grundy, VA

Engineer responsible for design of a 70 ft clear span concrete bridge to replace an existing out of service steel bridge.

Appalachian College of Pharmacy Replacement Bridge

Engineer responsible for design of a 60 ft clear span concrete bridge to replace an existing out of service concrete bridge.

Boston Knoll Replacement Bridge, Buchanan County, Virginia

Engineer responsible for design of a 50 ft clear span steel bridge to replace an existing out of service steel bridge.

Squire Branch Replacement Bridge, Buchanan County, Virginia

Engineer responsible for design of a 50 ft clear span steel bridge to replace an existing out of service steel bridge.

DETAILS AND ACHIEVEMENTS

Experience

Total: 24 years

Education

B.S. Engineering
Technology with emphasis
on Civil/Structural/Building
Construction
Old Dominion University

B.S. Engineering
Technology with emphasis
on Construction
Management/Estimating
Old Dominion University

AAS Design & Drafting
Technology
Southwest Virginia
Community College

PROFESSIONAL REGISTRATIONS

Register Architect

WV – No. 5622
VA – No. 0401019164
TN - 107072

Professional Engineer

VA – No. 0402051009

Construction Services Manager

Robyn E. Smith



DIEFFENBAUCH & HRITZ

Mr. Smith has over 35 years of experience in the civil, mining, and construction management fields. Mr. Smith has accumulated a broad range of experience in the regulatory, planning, location construction, drilling, geotechnical and construction management phases of the oil & gas industry in the Utica and Marcellus Shale. Also, throughout his career he has gained valuable experience with projects in the transportation, environmental compliance, mining, water resources, geotechnical and commercial site development fields in KY, OH, PA, VA, and WV.

Project Role, Construction Services Manager:

Responsible for managing the design, permitting, construction management and certification activities associated with client's projects. Projects may include but are not limited to: oil & gas well pads, fresh and reuse water impoundments. Primary role includes; managing company operations, management of oil & gas development planning and regulatory reporting, management of construction services including construction compliance and inspection, construction management, construction sequencing and optimization, contractor management, project development and management and project completion, and planning, design, permitting, and construction phase services for water resources, environmental, mining, transportation, geotechnical and commercial site development projects.

Summary of Projects:

Oil & Gas Well Pad Projects:

Over the past 5 years, Mr. Smith has managed hundreds of designs, permitting, construction management, and certification for natural gas well sites, above ground storage facilities, centralized impoundments, pipelines, and metering facilities for various natural gas companies at locations throughout PA, OH and WV.

Mining Experience:

Underground/Surface Mining Complex: As Chief Engineer responsibilities included the preparation of all mine plans, budget preparation for mining as well as capital projects, coordination with all state and federal agencies, and project management of all capital construction projects.

DETAILS AND ACHIEVEMENTS

Experience

Total: 35 years

With D&H: 8 years

Education

B.S. Mining

Engineering,

West Virginia Institute
of Technology

Safety Training

PEC Training

CORPORATE AFFILIATIONS

- Gas & Oil Association
of West Virginia (GO-
WV)

- Pennsylvania
Independent Oil and
Gas Association
(PIOGA)

Construction Services Manager

Robyn E. Smith



DIEFFENBAUCH & HRITZ

Senior Mining Engineer/Construction Manager for a \$125M Highway Construction Surface Mine Design Build project as well as 2 large surface mine operations in Southern West Virginia for Alpha Natural Resources. The highway project consists of the construction of approximately 15 miles of the I-73/74 corridor. The project consists of some 70,000,000 cubic yards of excavation and fill placement. As the project manager responsibilities included for over-sight of the design process, schedule and budget preparation and maintenance, management of all environmental permit activities, quality control, mine planning, tracking pay item quantities and submitting payment requests to the WVDOH.



Ohio County Schools Project

Ohio County, WV

D&H surveyed eleven (11) schools within Ohio County associated with the 2018 Bond Program located in the Ohio County School system.

D&H collaborated with McKinley Architects and Engineering (McKinley) on this project. The project efforts consisted of:

1. Boundary surveys to locate, measure, plat, & mark the existing boundary corners occurring within the survey limits.
2. Topographic surveys were performed to record and plat topography at 1'0" vertical contour intervals within the survey limits and to the opposite sides of all contiguous road and highway right-of-ways.
3. D&H located and platted all existing above and below grade existing site improvements such as pavements, walks, curb-cuts, structures, water, steam, refrigerant, gas, wells and well heads, electric, data, telephone, TV, drainage inlets and appurtenances road, highway, easement and utility right-of-ways.
4. D&H utilized in-house Unmanned Aircraft System (UAS) drones for attaining mapping aerial photographs for the larger school site areas. The UAS is insured, registered, and certified through the FAA to offer commercial services.

D&H and McKinley maintained communication alone with a well-structured project scope in order to effectively complete the surveying services in a timely cost effective fashion.



Project Owner: Ohio County Schools – 2203 National Rd., Wheeling, WV 26003

Owner's Project Manager: Patrick Rymer; Phone 304-233-0140

Prime Contractor: McKinley Architects and Engineering

Sub-Contractor: Dieffenbauch & Hritz, 1095 Chaplin Road, Suite200, Phone 304-985-5555

Completion Date: 2019

Construction Costs: N/A



Premier Chevrolet Buick GMC Site

Morgantown, WV

D&H designed and permitted the dealership's expansion site.

The expansion of the dealership to the adjacent, undeveloped parcel required the existing stormwater management system to be analyzed. The site design followed Granville's ordinances for stormwater and construction permitting. D&H developed the documents to obtain the necessary permits from the town of Granville and the West Virginia Department of Environmental Protection (WVDEP). The project efforts consisted of:

1. Conceptual civil site design was drafted to include general layout, parking lot/sidewalk configuration, pavement design, grading/drainage/stormwater management, and sanitary sewer lateral connection to the nearest existing junction.
2. Civil site construction plan was prepared with an emphasis on grading, drainage, and stormwater management.
3. The subject parcel totaled 3.05 acres and a 1-3 acre Construction Stormwater General Permit was obtained through the WVDEP.
4. Geotechnical boring and stake-out was performed.
5. Topographic and utility survey.

The parcel that underwent development was situated above an inactive mine, which could have posed structural concerns. The stability of the land was analyzed to ensure the parcel was capable of supporting the new dealership lot and showroom.

