



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

State of West Virginia
 Centralized Expression of Interest
 Architect/Engr

Proc Folder: 1403403			Reason for Modification:
Doc Description: A&E - Little Beaver & Twin Falls SP Campground Improvements			
Proc Type: Central Purchase Order			
Date Issued	Solicitation Closes	Solicitation No	Version
2024-04-01	2024-04-17 13:30	CEOI 0310 DNR2400000007	1

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code:
Vendor Name : TERRADON Corporation
Address : 409 Jacobson Drive
Street :
City : Poca
State : WV **Country :** U.S.
Principal Contact : Ryan Wheeler, Director of Business Development
Vendor Contact Phone: 304-755-8291 **Extension:**

RECEIVED

2024 APR 16 PM 2: 07

WV PURCHASING
 DIVISION

Zip : 25

FOR INFORMATION CONTACT THE BUYER

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

Vendor
 Signature X

FEIN# 55-0687626

DATE 04-12-2024

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

ADDITIONAL INFORMATION

The Acquisition and Contract Administration Section of the Purchasing Division is soliciting Expression(s) of Interest for Division of Natural Resources, from qualified firms to provide architectural/engineering services as defined herein.

PROJECT: The purpose of the project for which Expression(s) of Interest are being solicited is to provide necessary engineering, and other related professional services to design, specify and provide construction contract administration services for the construction of repairs and improvements to the Black Oak campground at Little Beaver State Park in Raleigh County and the campground at Twin Falls State Park in Wyoming County, West Virginia, per the attached specifications and terms and conditions.

INVOICE TO	SHIP TO
DIVISION OF NATURAL RESOURCES PARKS & RECREATION-PEM SECTION 324 4TH AVE SOUTH CHARLESTON WV 25305 US	STATE OF WEST VIRGINIA JOBSITE - SEE SPECIFICATIONS No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue
1	Professional engineering services		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:

Design and contract administration services of campground improvements at Little Beaver State Park.

SCHEDULE OF EVENTS

<u>Line</u>	<u>Event</u>	<u>Event Date</u>
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DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Will Thornton, PE, PS - Vice President of Engineering

(Address) 409 Jacobson Drive, Poca, WV 25159

(Phone Number) / (Fax Number) 304-755-8291 / 304-755-2636

(email address) will.thornton@terraddon.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

TERRADON Corporation

(Company) Ryan Wheeler

(Signature of Authorized Representative)

Ryan Wheeler - Director of Business Development - 04-12-2024

(Printed Name and Title of Authorized Representative) (Date)

304-755-8291 / 304-755-2636

(Phone Number) (Fax Number)

ryan.wheeler@terraddon.com

(Email Address)

ADDENDUM ACKNOWLEDGEMENT FORM

SOLICITATION NO.: CEOI 0310 DNR240000007

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|---|--|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

TERRADON Corporation

Company



Authorized Signature

04-12-2024

Date

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



terraddon.com

Corporate:
PO. Box 519
Nitro, WV 25143
Tel: 304-755-8291

April 10, 2024

Subject: WV Division of Natural Resources—A&E Little Beaver & Twin Falls State Park
Campground Improvements—CEOI 0310 DNR2400000007

Attn: Josh Hager, Buyer
Department of Administration
2019 Washington Street East
Charleston, WV 25305-0130

TERRADON is pleased to submit the enclosed package to provide engineering consulting services for the Little Beaver and Twin Falls State Parks Campground Improvements projects. The included package details the TERRADON team's qualifications, expertise, management and staffing capabilities, prior experience related to the proposed, and required documentation for consideration.

The TERRADON Team will be the Division's partner through every phase of the proposed project. As your design team, our goal is to provide the full realm of consulting services that the Division needs to successfully complete these projects. TERRADON is a full-service engineering firm headquartered in Poca, WV with offices in Lewisburg, WV and Fayetteville, WV, Washington, PA, and Salem, VA. TERRADON maintains qualified transportation engineers and designers, as well as ancillary services that may be needed for this contract.

The TERRADON team plans to lead these projects under the management of William S. Thornton, PE, PS. Thornton has more than 30 years' experience providing quality consulting services on various recreational, park, state park, railway, streetscape, and other projects throughout West Virginia.

Upon your review of the enclosed, please do not hesitate to contact me at 304-755-8291 with any questions or concerns. I look forward to hearing from you soon.

Sincerely,

A handwritten signature in blue ink that reads "Ryan Wheeler".

Ryan Wheeler, Director of Business Development



SUBMITTED BY:
TERRADON Corporation
409 Jacobson Drive
Poca, WV 25159
304-755-8291

POINT OF CONTACT
Ryan Wheeler
Director of Business
Development
Ryan.wheeler@terraddon.com
304-729-9176

STATEMENT OF QUALIFICATIONS

*WV Division of Natural Resources
A&E Little Beaver & Twin Falls
State Park Campground Improvements
CEOI 0310 DNR2400000007*

Attn: Josh Hager, Buyer
Department of Administration
2019 Washington Street East
Charleston, WV 25305-0130

VENDOR NAME: TERRADON Corporation
BUYER: Josh Hager
SOLICITATION NO.: CEOI 0310 DNR2400000007
BID OPENING DATE: 04/17/2024
BID OPENING TIME: 1:30 PM ET
FAX NUMBER: 304-558-3970

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Qualifications & Technical Expertise

TERRADON Team Qualifications





FOUNDED: 1989

EMPLOYEES: 95

LOCATIONS:

Poca, WV
Lewisburg, WV
Fayetteville, WV
Washington, PA
Salem, VA

SERVICES:

Civil Engineering
Land Planning & Design
Survey & Mapping
Geotechnical Engineering
Transportation Engineering
Structural Engineering
Construction Services
Environmental Consulting

TERRADON Corporation offers a multi-faceted approach to design engineering and consulting services. For more than 30 years TERRADON staff has provided a wealth of engineering solutions on successful projects. The company built its reputation on expert personnel and quality, time-sensitive service. Those same founding principles hold true today.

The firm has been recognized through numerous awards from professional organizations and agencies including the American Society of Civil Engineers, State Highway Departments, the Department of Environmental Protection and the American Institute of Architects.

TERRADON's diverse team of professionals work together on projects to offer a wide range of services in house to keep projects centrally focused. By providing this range of services, TERRADON is able to work completely as a team to offer clients the most rewarding design.

TERRADON's corporate culture promotes innovation and progressive thinking. Project leaders strive to sustain customers through a wide-range of engineering offerings. TERRADON employees understand the purpose behind their services and work to cultivate lasting relationships with clients through honest, hard work.



TERRADON is the largest, woman-owned engineering firm in West Virginia. TERRADON is a certified Women's Business Enterprise as defined by the Women's Business Enterprise National Council and the National Women Business Owners Corporation.



Taking an undeveloped piece of land and transforming it to your vision requires creativity, an attention to detail, and the ability to stay focused through a complex process. Working alongside TERRADON, a team that seeks to understand and align solutions with client vision, project owners gain a partner that is experienced and capable of dealing with the obstacles that can arise. TERRADON produces plans, permits, and construction details to realize owners' vision.

At TERRADON, land development is one of our foundational services, and is often at the center of projects that include other engineering services. Experienced team members, utilizing modern technology and evolving procedures, help clients find innovative solutions to strengthen their project.

Through clear, constant communication with the client and a level of transparency unmatched in the industry, our project managers work to identify goals and develop answers. From cost models to simulation tools, we provide comprehensive analysis of situations, and deliver realistic schedules and estimates to meet client goals.

Supported by a large, highly-qualified team of engineers, landscape architects, and CAD designers, our land development team has extensive experience with both private and public entities. Such a depth of experience allows us to tackle complex projects that are critical to a client's time and budget needs. It's what has helped us develop extended relationships with clients, and has earned us regular referrals.



*TERRADON maintains
LEED accredited
professionals on staff.*

Services

- School and Institutional Site Development
- Master Planning
- Site Feasibility Studies
- Schematic Design
- Layout Plans
- Grading Plans
- Stormwater Management Plans
- Erosion Control Plans
- Planting Plans
- Presentation Drawings/ Renderings
- Graphic Design
- Construction Observation
- Commercial Site Development
- Industrial Site Development
- Residential & Urban Site Development
- Rural Site Development
- Athletic Facility Development
- Low Impact Sustainable Development
- Parks and Recreational Site Development



Our team has a commitment to the Ohio Valley and Appalachian regions that goes far beyond our jobs. It is where we work, where we live, and where we play. It is where our family and friends are, it's home. That's why our team at TERRADON sees our environmental services as critical to both preservation and responsible development. Every project has the potential to impact ecological resources and our surrounding environment. Our accomplished team at TERRADON provides unparalleled environmental services and understands the risks, procedures, and regulatory standards involved in managing environmental resources. A team that knows the urgency of conducting the proper studies to protect natural resources, wetlands, and ecology around your project while keeping it on schedule, and within budget.

The experience of our team provides us the ability to address environmental issues. Our environmental team draws on credentials in chemical engineering, chemistry, civil engineering, environmental sciences, landscape architecture, geology, and geotechnical engineering to help manage complex issues. From permitting to site assessment and reporting, our team is well-versed in federal and state requirements. Our team provides education and assistance, not just for the permitting process, but for the overall concept to construction of a project. Client communication and transparency ensure that project stakeholders are constantly in-the-know, while our years of building relationships with federal and local agencies help ensure smooth, timely and sound timelines. In the end, this makes TERRADON a regional leader in environmentally responsible projects.

SERVICES

- Environmental Site Assessments (ESA)
- Phase I ESA
- Phase II ESA
- NEPA EA
- Environmental Audits
- NEPA Compliance
- Hazardous Waste
- Wastewater
- Stormwater
- Groundwater
- Air Permitting
- Wetland Delineation
- Aquatic Resource Mitigation Design
- Tier II Reporting
- Asbestos and Lead Inspection
- Underground Storage Tanks
- Impoundment Stabilization and Closure
- 401 and 404 Permitting
- Turbidity Monitoring
- Risk Management Plans
- Emergency Response Plans
- SPCC Planning
- BMP Planning
- Real Estate Due Diligence
- Environmental Assessments and Remediation
- Land Restoration and Brownfields
- Environmental Sciences
- Biology
- Cultural Resources



Survey and mapping serves as the foundation of a successful design project. The data from these processes provides the framework for site planning, sets out boundaries to work within, and helps owners to determine the constructability of a project.

Survey and mapping serves as the foundation of a successful design project. The data from these processes provides the framework for site planning, sets out boundaries to work within, and helps owners to determine the constructability of a project. Utilizing state-of-the-art geospatial technology, our experienced field survey crews and licensed surveyors are efficient and accurate, priding themselves in precision data collection and informative outputs. Our tailored survey and mapping solutions demonstrates that our team is ready to tackle the needs of clients across a variety of industries, from roadway and government to commercial and residential clients.

With decades of experience, our exceptional survey and mapping teams aim to provide transparency and open communication throughout the process – both the client and our full project teams receive constant updates. This commitment to communication allows for informed decisions, providing the ability to adapt or modify project designs as needed across ever-changing site environments. At TERRADON, our survey and mapping team ensures that every project is efficient ethical and environmentally sound. This has made TERRADON the premier surveying and mapping firm in the region, and the company project owners turn to first.

SERVICES

- Boundary Surveys
- High Order Control Surveys
- Aerial Mapping Control Surveys
- ALTA/NSPS Surveys
- As-built Surveys
- Deformation and Monitoring Surveys
- Above Ground and Underground Utility Surveys
- Construction Staking
- Hydrographic Surveys
- Ground Penetrating Radar (GPR)
- Geodetic Surveys
- 3-D Terrestrial Scanning
- FEMA Flood Certificates, LOMA, LOMR, CLOMR, and CLOMR-F
- Design Level Base Mapping
- Topographic and Planimetric Survey Mapping
- Transportation Corridor Mapping
- Right-of-Way Mapping
- Highway Right of Way Plan Development
- Subsurface Utility Mapping
- Major and Minor Subdivision Plans
- GIS Mapping
- Drone 3-D Mapping
- Photogrammetric Mapping
- Dam Instrumentation Surveys
- FEMA Flood Certificates, LOMA, LOMR, CLOMR and CLOMR-F



At TERRADON, we tailor our approach to the specific project, and collect the necessary data for decision making. It's not just about supplying the data though – we provide an understanding and a plan for our client to move forward. It's not just collection and analyzation, it's about educating our clients on the risks and benefits of our data and recommendations.

With the difficult soil and groundwater conditions found across the Ohio Valley and the Appalachian regions, having an experienced staff that knows the territory is incredibly important. The team at TERRADON aren't just experts in geotechnical engineering, they are geographical experts – many of them are Appalachian Region born-and-raised, and understand the land where our clients build.

This has allowed TERRADON to tackle a vast variety of projects and industries, providing geotechnical investigation and advisement for everything from mining, to cell and high mast towers, to flexible or rigid pavement design. Even tasks such as landfill permitting and environmental remediation are well within our realm of experience.

Services

- Subsurface Exploration
- Test Borings
- Test Pit Excavations
- Monitoring Well & Piezometer Installation
- Slope Inclinometers
- Soil and Rock Logging, Sampling & Testing
- Geotechnical Investigations & Site Characterizations
- Site Feasibility Assessments
- Soil and Rock Stability Analysis
- Shallow & Deep Foundation Design and Analysis
- Pile Drivability Analysis
- Groundwater Seepage Analysis
- Dewatering Analysis
- Landslide Analysis & Remedial Design
- Structural Corrections
- Temporary Shoring Design
- Earthen Dams Evaluations & Design
- Municipal & Industrial Landfill Design and Permitting
- Laboratory Testing
- Flexible & Rigid Pavement Design
- Earth Retention Systems
- MSE Walls, Gravity Walls, Anchors (Rock or Soil Nailing), Sheet Pile Walls, and Solider Pile & Lagging Walls
- Geosynthetic Engineering & Design
- Ground Improvement Design



The transportation engineering team at TERRADON provides design services for the infrastructure projects that we rely on every day. From large-scale, multi-lane highways with complex interchanges, to narrow city streets, to winding single-lane county roads our roadway and bridge experts offer experience to benefit client needs.

Our teams use a data-driven approach for every transportation engineering project, developing bridges, roadways and interchanges that link the traveling public safely from one place to the next. Taking into consideration the transportation demands and understanding the environmental impacts and land-use needs of these projects, our team designs smart, efficient transportation projects for the future.

Using the latest technology, we study traffic patterns and needs, and advise on options for improving flow and access. By monitoring the terrain around the projects, and considering the needs of the surrounding communities, our team will make recommendations for the placement and structure of the roadway, and on surrounding features including landscaping, noise abatement and retaining walls.

This all-around approach has earned TERRADON's team of transportation engineers numerous Engineering Excellence Awards and recognition from numerous industry organizations. Our transportation engineering services make TERRADON a highly sought-after partner in transportation and infrastructure projects.

Services

- Highway Design
- Corridor Design
- Geotechnical Design
- Right-of-Way Plans
- Road Widening
- Noise Walls
- Retaining Walls
- Roadway Design
- Structural Engineering/Bridge Design
- Bridge Rehabilitation Design
- Bridge Replacement Study and Design
- Maintenance of Traffic
- Infrastructure Rehabilitation
- Traffic Analysis
- Grading Studies
- Transportation Surveying & Mapping
- AML Design
- Design-Build
- Signing Design
- Pavement Marking Design
- Preliminary Investigation and Engineering Studies
- Corridor Studies
- Utility Relocations
- Interchange Improvements
- Maintenance of Traffic
- Permitting
- Value Engineering
- Design Build Engineering



TERRADON offers materials testing and construction monitoring services to document compliance with project design specifications and regulatory requirements. The firm provides construction monitoring for utility, highway, and commercial construction projects. TERRADON also provides laboratory and field testing of construction materials. Engineers and technicians at TERRADON are West Virginia Department of Highways certified in Portland Cement Concrete, Hot-mixed Asphalt, Compaction and Aggregates.

Additionally, TERRADON provides Construction Management services including construction oversight, documentation, and safety procedure implementation. TERRADON has more than 35 qualified and certified construction inspectors and more than 5 qualified construction management representatives. TERRADON's team also includes environmental field inspectors, geotechnical inspectors, and geological field inspectors.

TERRADON Corporation Construction Testing and Inspection Department maintains a full service laboratory testing facility on site at the Poca, WV office. The laboratory is and staffed by qualified and certified construction inspection technicians.

Services

- Slump of Portland Cement Concrete (AASHTO-T119)
- Air Content of Freshly Mixed Concrete (AASHTO-T196 and T152)
- Unit Weight and Yield (AASHTO-T121)
- Making and Curing of Concrete Test Specimens (AASHTO-T23)
- Compressive Strength of Concrete Specimens (AASHTO-T22)
- Fine and Course Aggregate Gradations (AASHTO-T11 and T27)
- Specific Gravity of Aggregates (AASHTO-T84 and T85)
- Atterberg Limits (AASHTO-T89 and T90)
- Moisture Content of Soil (ASTM-D2216)
- Nuclear Compaction Testing of Soil, Stone, and Hot Mixed Asphalt
- Preparation of Certification Forms and Construction Reports
- Welder Certification
- Agency Compliance
- Floor Flatness Testing
- Fireproofing
- Masonry Testing
- Structural Steel Inspection Certified
- Welding Inspection
- Dye Penetrant Testing
- Bolt Testing
- Project Safety Monitoring
- FAA Eastern Regional Laboratories
- Steel Institute AST Inspections

2

Management & Staffing Capabilities

Key Staff Organization Chart



Key Staff Organizational Chart



City of Smithers, WV
Project Owner / Management



Will Thornton, PE, PS
Project Manager & Point of Contact

Civil Engineering & Site Development

Will Thornton, PE, PS
Dakota Smith, PE
Andrew Wagner, PE
Ben Prior, PE
Phil Reed, PE

Greg Fox, RLA, LEED AP
Shawn Gray
Pete Williams, RLA
Kristen McClung, PE, MBA
+20 Engineering Technicians

Surveying & Mapping

Robert Thaw, PS
Dave Brown PS
Brian Bakanas, PS
Robert Fuller, PS

+7 Registered Professional Surveyors

+10 Field Survey Technicians

Geotechnical Engineering

Joe Carte, PE
John James, PE
Chris Hancock
Brittany Beckwith

Environmental Consulting

Matt Glaspey, CCM, Env. Sp.
Bill Hunt, PG
Mike Pickens

Morgan Sword
+4 Environmental Technicians

Construction Inspection & Management

Jason Asbury, CESSWI
Tyler Bailey

+20 Construction & Materials Inspectors + 3 Testing Laboratories

3

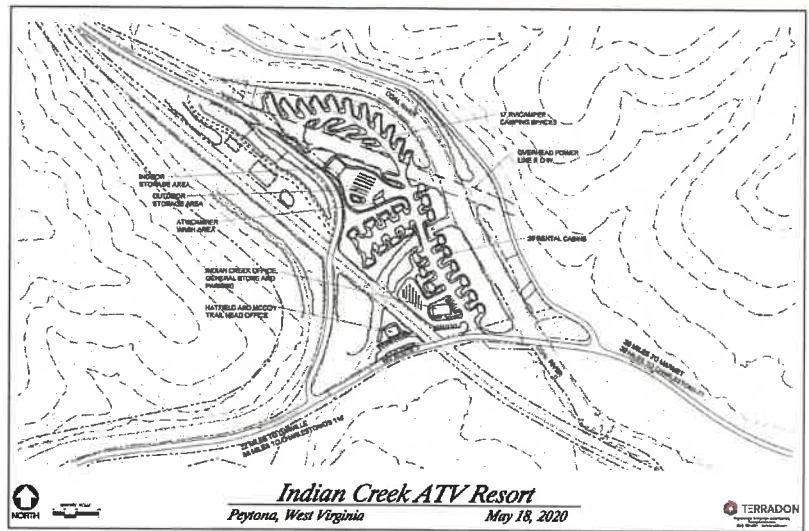
Related Prior Experience

Similar Project Experience



Indian Creek ATV Resort Design Planning

Boone County, West Virginia



TERRADON Corporation provided land planning and development services for the proposed Indian Creek ATV Resort in Boone County, WV. The proposed project includes the construction of 20 cabins, 15 RV sites, and will be the location of the new Coal River Trail System. Additionally, the site is designed to include a playground, bath house and ATV storage. TERRADON provided preliminary design planning for the site.

The project was completed preliminarily for the Boone County Community Development Corporation as part of a \$3.38 million plan to bring sewer and water to a new trail head to anchor the Hatfield-McCoy Trails' planned Coal River Trail System. The ATV resort site is planned to be situated at the trail head site.



TERRADON served as the primary site selection consultant and program manager for the due diligence phase of The Summit Bechtel Family National Scout Reserve. TERRADON performed much of the civil engineering for the project, but also served as a clearinghouse for all permitting on the site and worked hand-in-hand with the owners representative to complete the monumental project.

The Summit is a 10,600+ acre outdoor adventure center owned by the Boy Scouts of America. TERRADON performed site selection and site evaluation services. Additionally, the firm provided geotechnical investigations, design, survey, planning, and infrastructure design and inspection. Working under tight specifications and time restrictions, TERRADON spearheaded the delivery of the world class facility.

TERRADON worked with project owners to find the most feasible and economically beneficial site for the boy scout adventure site. The site selection in Fayette County, WV was chosen to compete with site selections across the United States. The competition was one of 28 site across 11 states.

TERRADON provided site prioritization and analysis to help project owners see the beneficial exponents to developing the outdoor adventure park in the mountains of West Virginia. TERRADON worked closely with state agencies during the site selection process to determine the best site development plans to economically benefit both the Boy Scouts of America as well as the state of West Virginia. The final design site was selected from scouring multi-acreage sites in different counties with specific elements considered including site feasibility, site readiness, budgeting exponents, and economic development. Prior to final selection, TERRADON's site was in the short list of three sites with two others in Virginia and Arkansas. The client was impressed with the quality and depth of our work that they hired TERRADON to do the bulk of the design work on site.

Grand Vue Park Development

Moundsville, West Virginia

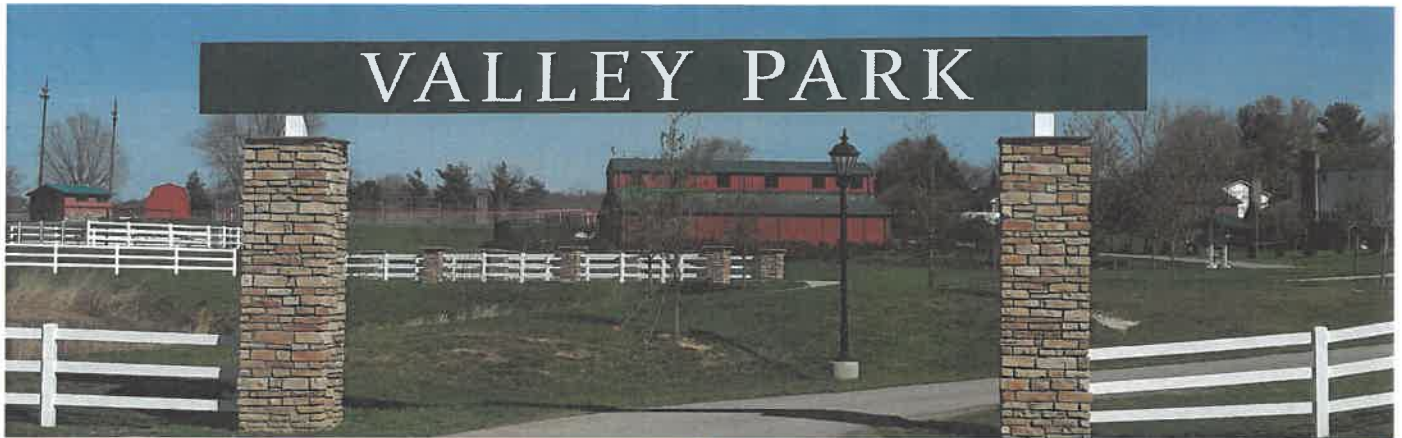


TERRADON Corporation was selected as the lead engineer and site designer for upgrades at Grand Vue Park in Moundsville, WV. TERRADON was selected to assist the park with upgrades to boost the parks relativity and attractiveness to a more upscale audience. TERRADON helped lead the vision with the design and implementation of modern treehouses and a high adventure park. The treehouses are nestled along ridge lines and provide a unique experience for guests with all the modern features of an upscale hotel.

Over the duration of the project, TERRADON was responsible for, initial site design, site planning, survey and mapping, utility design, construction inspection and other ancillary engineering services.

The project included the addition of the Grand Vue Aerial Adventure Park. The park provides a variety of aerial courses including a Canopy Tour of 8 dual zip lines ranging in distance from 310 to 2,100 feet throughout the Moundsville treetops.

The park encompasses more than 650 acres and offers lodging, zip lining, an aerial adventure park, paintball, geocaching, an outdoor amphitheater, a banquet hall, picnic shelters, an aquatic center, and walking and biking trails.



TERRADON Corporation provided Master Planning and site design services for the expanding Valley Park in Hurricane, Putnam County, WV. This work is part of a nearly \$2 million expansion, adds an additional six acres to the park.

The project included planning for athletic fields, multiple parking lots, access roads and greenspace, but also incorporated a walking trail that ties into existing park trails. The plan was produced in coordination with the WVDOT to determine roadway/walkway ingress/egress and designed in accordance with local, state and federal regulations.



The intent of this project is to develop a plan to develop a splash pad and secure the existing bath house of the former Montgomery Pool property located at the confluence of Morris Creek and the Kanawha River. The property is bordered by the Kanawha River, Morris Creek, Railroad Tracks and Fourth Avenue. The approximately 5 acre parcel of property consists of a parking lot, former bath house, basketball court, playground, kiddie pool, shelter and some picnic tables. The pool was filled in approximately 5 years ago.

The Conceptual Plan will only be developed to a point as to allow the proper siting and sizing of the Splash Pad.

Items to be considered for the development of the Preliminary Splash Pad Plan include:

- Development of proposed sizing of Splash Pad
- Development of plan to secure Bath House
- Meetings with Park Board (in person and virtually)



This project involves the design, and preparation of construction contract plans and related documents for a new pedestrian bridge along with trail rehabilitation work along the Narrow Gauge Trail within Babcock State Park. The project begins at the start of Narrow Gauge Trail at the Old Sewell Road. The trail rehabilitation work will progress approximately 2500 LF along the existing trail to the existing Glade Creek crossing. A new prefabricated pedestrian bridge with new abutments will be designed to replace the existing swinging bridge. The new bridge will have a 8-10 ft clear width and be approximately 150 linear span single span. Design will be based on a John Deere side by side utility vehicle.

Design tasks will include survey and mapping, minor grading, culverts along trail, prefabricated bridge specification, abutments, hydraulic report and geotechnical report.



Dunbar Sidewalk Improvements, Dunbar, WV

TERRADON provided engineering services to the City of Dunbar, WV for the improvement of sidewalks throughout the city (from 14th Street to 16th Street). TERRADON provided surveying and mapping for the entire length of the project and designed preliminary design layouts. The project included 2.5 blocks total of sidewalk repairs and ADA upgrades.

Oak Hill Sidewalk Improvements, Oak Hill, WV

TERRADON provided engineering services to the City of Oak Hill, WV for the improvement of sidewalks throughout the city. TERRADON provided surveying and mapping and design for the 4,300 LF length of the project and designed preliminary design layouts. The project also included a feasibility study for midblock crossings and the coordination of public meetings.

Grantsville Sidewalk Improvements, Grantsville, WV

TERRADON provided engineering services to the City of Grantsville, WV for the improvement of sidewalks throughout the city. TERRADON provided surveying and mapping for the entire length of the project design. The project included five blocks of sidewalk improvements, rehabilitation, ADA compliance upgrades, driveway openings, and minor drainage repairs. Additionally, the design included period street lighting, park benches, trash receptacles, and street trees as budget allowed.

Mount Hope Sidewalk Improvements, Mount Hope, WV

TERRADON provided engineering services to the town of Mount Hope, WV for the improvement of sidewalks throughout the town. TERRADON provided surveying and mapping for the entire length of the project design. The project included one block of sidewalk repairs, rehabilitation, ADA compliance upgrades, driveway openings, and minor drainage repairs. The design included the addition of two ADA parking spaces and period street lighting.

Richwood Sidewalks, Richwood, WV

TERRADON provided engineering services to the Town of Richwood, WV in the wake of major flooding. The project entailed a section on the north side of East Main Street from Dietz-Spence Store to Park Place. In total, the project involved approximately 1500 linear feet of study area. TERRADON provided surveying and mapping for the entire length of the project and designed preliminary layouts for retaining walls. The project also included a feasibility study for midblock crossings and the coordination of public meetings.

Ravenswood Sidewalk Revitalization, Ravenswood, WV

TERRADON Corporation completed construction administration and material testing services for the 2010 downtown revitalization project for the Ravenswood Development Authority. TERRADON was responsible for the project construction bidding documents and process, construction administration, inspection and materials testing for the sidewalk rebuilding, lighting, and ADA improvement project. The project design was completed by another consultant, and TERRADON took over the project to complete the services in a timely and on budget schedule. TERRADON helped secure additional funding from the WVDOT-DOH after project bids came in over estimate.



White Oak Trail Lighting, White Oak, WV

TERRADON provided survey and mapping of the existing White Oak Rail Trail from Fayco Avenue to Jones Avenue. Additionally, the firm identified and designed the placement of period lighting with additional electrical outlets, conduits and junction boxes along the 1.1 mile trail.

Smithers Sidewalks Improvements, Smithers, WV

The sidewalks along Michigan Avenue were deteriorating and becoming a hazard for the pedestrians in the area. This area is part of the central business district of Smithers. With the assistance of a Transportation Grant administered by the WV Division of Highways the City was able to remove and replace the deficient sidewalks. Street lighting was also added as a part of this project. Approximately 1000 square yards of concrete sidewalk were removed and replaced as a part of this project. Pedestrian crossings at intersections were designed to be ADA compliant with truncated dome delineators. Services provided included condition surveys, design development, coordination with WVDOH staff during design phase, preparation of contract bid documents, participation in the bidding and award processes, construction phase services including oversight and administration of inspection, processing of WVDOH compliance/reporting documentation, and project closeout. The project design was approved by the WVDOH but construction has been postponed indefinitely due to budget constraints

Montgomery Sidewalks Improvements, Montgomery, WV

This project consisted of the removal and replacement of deteriorated sidewalks and curbs throughout the City of Montgomery. Financed largely by a grant from the West Virginia Division of Highways, this project replaced approximately 2000 square yards of concrete sidewalk and upgraded to current ADA specifications. Services provided included condition surveys and prioritization of sidewalks requiring replacement, design development, preparation of contract bid documents, participation in the bidding and award processes, construction phase services including oversight and administration of inspection, processing of WVDOH compliance/reporting documentation, and project closeout. The typical section extended from the face of existing buildings or property lines to the curb. The sidewalk design incorporated a curb section. Pedestrian crossings at intersections were designed to be ADA compliant with truncated dome delineators. Details were provided for curb cuts, protection of existing parking meters and sign posts, street tree planters, and storm drain inlet repairs. The project was constructed during the summer of 2005.

3.5 Alley, Huntington, WV

TERRADON contracted with the City of Huntington office of Public Works to provide plans for the milling and asphalt pavement overlay for two blocks of 3.5 alley. The intent of the project was to improve drainage, and remove areas of standing water along the project limits.

Wolf Creek Park Trail System, Fayette County, WV

The Wolf Creek Trail System is a community led effort to develop a trail system within Wolf Creek Park. Wolf Creek Park is a multi purpose business and residential park owned by Fayette County and overseen by the Fayette County Urban Renewal Authority. This system has been envisioned, and partially constructed with volunteer efforts led by volunteer groups and the Fayette County Urban Renewal Authority (FCURA). The FCURA committed \$150,000 to the construction of approximately 15 miles of trails. The construction project was competitively bid by the FCURA in the spring of 2020 and awarded to SC Resources (owned by TERRADON team member).

TERRADON participated in the construction phase by mapping the new trails using survey grade GPS system to track progress and to create the final trail map. TERRADON Project Manager Will Thornton was active in this project as a member of the FCURA and by actively obtaining GPS data of the completed trails. TERRADON also obtained GPS data of the completed trails and developed the final trail map along with other maps for the park. The initial 17 miles of the Wolf Creek Park Trail System were officially opened to the public in the fall 2020. The trail system is a joint use hiking and biking featuring trails tailored from beginner through expert mountain bikers and loops that provide incredible hikes and trail runs through an actively restored forest. The Wolf Creek Park Trail System will have direct community connections to Fayetteville and Oak Hill, WV. In the fall of 2020, a grant application was submitted by the FCURA to the WVDOT-DOH Nontraditional Grant Program to fund the planning, design and construction of three parking area / trail heads for the Trail System.

WVDOH LPA Manual, Statewide, WV

TERRADON was selected by the Planning Division of the WVDOH to create a Local Public Agency (LPA) Manual to be used by Local Agencies in developing and performing various projects funded through Federal Programs administered by the WVDOH.

Shinnston Sidewalks 9.00, Shinnston, WV

This project involves the design, and preparation of construction contract plans and related documents for the sidewalk construction along the north side of US 19 from Lincoln High School to the southside of the Wesbanco entrance (approx. 1520 lf). Design tasks will include survey and mapping, minor grading, layout of ADA Ramps, cross walks, driveway openings, drainage design, sequence of construction notes and detailed Maintenance of Traffic plans and notes.

Shinnston Downtown Sidewalks 8.00, Shinnston, WV

This project involves the design, and preparation of construction contract plans and related documents for the sidewalk construction along the both sides of US 19 (Pike Street) from Walnut Street to Rebecca Street (approx. 550 lf each side). Design tasks will include survey and mapping, minor grading, layout of ADA Ramps, cross walks, driveway openings, drainage design, sequence of construction notes and detailed Maintenance of Traffic plans and notes.

Hundred Sidewalks, Hundred, WV

This project involves the design, preparation of construction contract plans and related documents for replacement sidewalks along the south side of Pennsylvania Avenue (CR 69) to the pedestrian bridge to the sports complex. Design tasks will include survey and mapping, sidewalk demolition and replacement construction plans, Maintenance of Traffic plans, construction cost estimate, and utility coordination.

Madison State Street Streetscape, Madison, WV

This project involves the design, and preparation of construction contract plans and related documents for the sidewalk construction along the west side of State Street from the intersection with Main Street to the intersection with Josephine Street (approx. 1500 lf). Project also includes along both sides of State Street from intersection with Josephine Street to intersection with Avenue B (approx. 500 lf each side). Design tasks will include survey and mapping, minor grading, layout of ADA Ramps, cross walks, driveway openings, drainage design, sequence of construction notes and detailed Maintenance of Traffic plans and notes.

Babcock State Park Sewell Trail
Fayette County, WV



TERRADON provided survey and mapping, master planning and final design for 4.5 miles of abandoned roadbed for an existing trail design in Babcock State Park. The project included conceptual master plan design of the entire length of the abandoned roadbed from the existing gate to the New River. There is a major slide at the intersection with the Narrow Gauge Trail which has forced the closure of the Sewell Road Trail at that point.

TERRADON was asked to design remediation of the slide and also to provide a design for the remaining 4.5 miles to the New River. The Master Plan of the entire 4.5 miles section of trail is being used by the Park to fiscally plan for the rehabilitation of the entire trail.

Available funds have allowed the final design of approximately one mile of trail and the remediation of the slide. The construction of 1 mile of trail and retaining wall was completed in Fall of 2021. The remaining 3.5 miles of trail rehabilitation was performed by WVDOH forces and completed in summer of 2022. This project received an Engineering Excellence Award from the WVDOH in fall of 2022.



Additional Trail Project Contracts

Statewide, WV



New River Recreation Trail, Fayetteville, WV

TERRADON is currently providing design for a new trail through rural and urban areas in Fayetteville, WV. As part of a 'Share the Road' initiative, TERRADON designed 2 miles of trail along city streets. TERRADON designed approximately 3 miles of new 10' wide trail through woods and school property. The project also included the design of two structures; one 40' structure over Town Creek, and one 25' structure over a tributary of Town Creek. TERRADON staff surveyed and mapped all of the new trail and stream crossings and provided an archeological study of the trail area.

Historic Nuttallburg Site, Fayette County, WV

The Nuttallburg Mining Complex and Town Site is the most intact example of an early 20th century coal mining complex in the New River Gorge and West Virginia, and one of the most complete coal related industrial sites in the United States. The National Park Service (NPS) proposes to develop a new visitor use area that will encompass land within and adjoining the Nuttallburg Mining Complex and Town Historic District. This project is the third phase of work by the National Parks Service to clean up and stabilize the historic Nuttallburg coal tippie, loadout and surrounding historic community. Visitor access, parking areas, trails and interpretive signage will be included in Part B of this phase. Services include construction drawing and specification reviews, developing project cost estimates, coordinating and negotiating with Contractor, ensuring compliance with the construction drawings and specifications keeping daily reports, coordination with the design engineer, contractor and National Park Service and verifying quantities and pay estimates. Total construction cost of this phase is over \$5 Million.

Midland Trail River Access, Montgomery, WV

This project consisted of the renovation of the deteriorated parking area at the Midland Trail River Access in the City of Montgomery, WV. Financed largely by a grant from the West Virginia Division of Highways, this project replaced approximately 1000 square yards of gravel parking area with asphalt pavement. Services provided included survey, design development, preparation of contract bid documents, participation in the bidding and award processes, construction phase services including oversight and administration, processing of WVDOH compliance/reporting documentation, and project closeout. The project included sub grade preparation, placement of aggregate base course, asphalt base course, asphalt wearing course, and drainage improvements. City personnel striped the area after the paving was completed.

4

Methodology to Goals and Objectives

Methodology & Approach to Reach Goals & Objectives



4. Methodology to Goals and Objectives



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

Methodology & Approach:

TERRADON will set up a kick off meeting with all stakeholders to ensure the Scope of Work is clear and agreed upon by everyone. Based on this scope of work and desired outcomes, we will develop a project schedule of all milestones of the project (including internal QA/QC reviews). This schedule will also include periodic (weekly, biweekly or monthly) project meetings with stakeholders. These meetings will keep everyone informed of the progress and allow discussions of items during the development.

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

Methodology & Approach:

TERRADON is familiar with the design process for this type of project. Our design team will include survey and mapping, preliminary design and planning, geotechnical investigation and design, detailed site design, detailed water service and sanitary sewer design. We are also able to provide any construction oversight and material testing needed for the project. All of these services are provided in house by TERRADON employees.

Our design teams are familiar with industry standards for Park Campground facilities (such as the National Park Service Campground Design Guidelines) along with WV Standards for potable water service (National Primary Drinking Water Regulations and WV DHHR Bureau of Public Health).

TERRADON is also familiar with the design standards for trail construction from sources such as US Forrest Service – Accessibility Guidebook for Outdoor Recreation and Trails and the Trail Construction and Maintenance Notebook, Appalachian Mountain Club’s Trail Building and Maintenance and NPS Sustainable Trail Guidelines

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

Methodology & Approach:

TERRADON routinely provides Construction Administrative and Inspection Services as well as Material Testing services. Current and recent clients include National Park Service and WV American Water Company.

A

Attachment A: Resumes of Key Staff

Resumes of Key Staff | 25



Thornton is an experienced project manager and design engineer for civil engineering design projects. Thornton has more than 15 years of experience with consulting engineering in West Virginia, and three years with a construction firm performing major concrete paving projects in West Virginia, Pennsylvania and Ohio. Thornton also provided consultant review for the WVDOT, Division of Highways.

The major design projects with which he has been involved included roadway design, drainage design, site design, mine land reclamation, permitting, property surveys, airport design, Right-of-Way Services, maintenance of traffic and construction administration and oversight. He provides analysis and design on the construction and rehabilitation of a variety of infrastructure utilities (water, wastewater and storm water), including streets, drainage, sidewalks, buildings, and traffic and other safety improvements.

Project Experience

Wolf Creek Trail Design, Fayette County, WV

Project Manager responsible for the design over more than 16 miles of mixed use trails in Wolf Creek Park, located in Fayette County, WV. The trail system is primarily single track mountain bike trail, with difficulty levels from beginning to expert. The design team provided all trail design services, including surveying, and inspection.

Babcock State Park—Sewell Trail, Fayetteville, WV

Project Manager responsible for survey and mapping for 4.5 miles of abandoned roadbed for an existing trail design in Babcock State Park. The project included conceptual design of the entire length. Additionally, the trail has The design team provided slip repair design services and provided the design of a pedestrian bridge along the trail.

New River Recreation Trail, Fayetteville, WV

Project Manager responsible for the design for a new trail through rural and urban areas in Fayetteville, WV. As part of a 'Share the Road' initiative, The design team designed 2 miles of trail along city streets, approximately 3 miles of new 10' wide trail through woods and school property, and the design of two structures; one 40' structure over Town Creek, and one 25' structure over a tributary of Town Creek. Staff surveyed and mapped all of the new trail and stream crossings and provided an archeological study of the trail area.

White Oak Trail Lighting, White Oak, WV

Project Manager responsible for survey and mapping of the existing White Oak Rail Trail from Fayco Avenue to Jones Avenue. Additionally, identified and designed the placement of period lighting with additional electrical outlets, conduits and junction boxes along the 1.1 mile trail.

Schoenbaum Tennis Courts Asphalt and Drainage Rehabilitation, City of Charleston Parks and Recreation, Charleston, WV

Management of design and renovation of an 8 court tennis complex located in the Kanawha City area of Charleston, WV. Subsurface drainage problems were solved by the installation of an open graded drainage layer under the courts. The entire court are was repaved with a construction cost of \$500,000.

Education

B.S. Civil Engineering,
West Virginia Institute of Technology

Certifications

WDOH Portland Cement Concrete Technician

WVDOT Asphalt Pavement Technician

Registration

Professional Engineer: WV, OH, VA

Professional Surveyor: WV

Total Years Experience

30

Dakota Smith is a project engineer for TERRADON Corporation. Smith provides engineering design services on various projects ranging from land slips, sidewalk design, & highway design to deck replacements. Smith has performed various tasks from drafting & roadway/site design in MicroStation, OpenRoads, & AutoCAD, to preparing calculations for different structural components & highway quantities to using modeling software to analyze bridge superstructures. Smith also has experience in environmental permitting and bridge inspection coordination.

Project Experience

White Oak Trail Lighting, Oak Hill, WV

Project Engineer for survey and mapping of the existing White Oak Rail Trail from Fayco Avenue to Jones Avenue. Additionally, the firm identified and designed the placement of period lighting with additional electrical outlets, conduits and junction boxes along the 1.1 mile trail.

Shinnston Downtown 8.00, Shinnston, WV

Project Engineer for the design, and preparation of construction contract plans and related documents for the sidewalk construction along the both sides of US 19 (Pike Street) from Walnut Street to Rebecca Street (approx. 550 lf each side). Design tasks will include survey and mapping, minor grading, layout of ADA Ramps, cross walks, driveway openings, drainage design, sequence of construction notes and detailed Maintenance of Traffic plans and notes.

Shinnston Sidewalks 9.00, Shinnston, WV

Project Engineer for the design, and preparation of construction contract plans and related documents for the sidewalk construction along the north side of US 19 from Lincoln High School to the southside of the Wesbanco entrance (approx. 1520 lf). Design tasks will include survey and mapping, minor grading, layout of ADA Ramps, cross walks, driveway openings, drainage design, sequence of construction notes and detailed Maintenance of Traffic plans and notes.

Hundred Sidewalk Rehabilitation, Hundred, WV

Project Engineer for grant writing, design, preparation of construction contract plans and related documents for replacement sidewalks along the south side of Pennsylvania Avenue (CR 69) to the pedestrian bridge to the sports complex. Design tasks will include survey and mapping, sidewalk demolition and replacement construction plans, Maintenance of Traffic plans, construction cost estimate, and utility coordination.

Oak Hill Central Ave. to Main St. Sidewalk Improvements, Oak Hill, WV

Project Engineer for the improvement of sidewalks throughout the town. Project included surveying and mapping and design for the 4,300 LF length of the project and designed preliminary design layouts and a feasibility study for midblock crossings and the coordination of public meetings.

Twin Branch Culverts, McDowell County, WV

Smith served as a staff designer for the Twin Branch Culverts design in Twin Branch, WV. The design included replacing the current culverts with improved, up to date culverts. Smith assisted in the preparation of drawings for the culverts.

Education

B.S. Civil Engineering,
Virginia Polytechnic Institute & State University,
Blacksburg, VA
(2016)

Registrations

Registered Professional Engineer (PE):
WV, PA

Certifications

Level II Erosion & Sediment Control NCDOT

First Aid / CPR

Total Years Experience

+6

Andrew Wagner is a Project Designer and Engineer in Training at TERRADON Corporation. Wagner is responsible for design on civil and highway projects. Wagner has a background in mine engineering as well as oil and gas drilling and completions operations management and has served as the drill site manager in the Gulf of Mexico while with another firm. Wagner has experience in highway design and drainage design and has provided relevant services on various projects throughout West Virginia.

Project Experience

Sidewalk Rehabilitation Projects, WVDOH Planning Division, Statewide, WV

Project engineer for numerous sidewalk rehabilitation projects under a statewide contract agreement with the WVDOH planning division.

Oak Hill Sidewalk Improvements, Oak Hill, WV

Project engineer for the improvement of sidewalks throughout the town. Project included surveying and mapping and design for the 4,300 LF length of the project and designed preliminary design layouts and a feasibility study for midblock crossings and the coordination of public meetings.

Mount Hope Sidewalk Improvements, Mount Hope, WV

Project engineer for the improvement of sidewalks throughout the town. The project included one block of sidewalk repairs, rehabilitation, ADA compliance upgrades, driveway openings, and minor drainage repairs. The design included the addition of two ADA parking spaces and period street lighting.

Mingo Logan Coal (Blair Slip), Logan, WV

The project was an emergency slip repair on CR 17. Approximately 1530 feet of roadway was realigned to locate the route on stable bedrock. Wagner served as Lead Designer on the project and consulted on selection of an appropriate and cost-effective long-term solution for stabilization of the length roadway in question. Wagner designed horizontal geometry, vertical geometry and typical section of the realignment, utilized geotechnical drilling reports to design a cut slope for the realigned roadway, performed drainage calculations to design the roadside ditch and drop inlets, and performed modeling and drafting work to produce a plan set for construction.

Twin Branch (Twin Branch Box Culverts), Twin Branch, WV

The project consisted of the study, design, and preparation of construction contract plans for the replacement of two bridges with two box culverts in Twin Branch near Davy, WV. Wagner served as a Project Designer and assisted with drafting and structural detailing of the box culvert designs, developed steel reinforcing schedules for the box culverts, drafted roadway plans, created a maintenance of traffic plan showing road closures, detours, and required signage, and calculated roadway and bridge quantities.

Education

B.S. Mining Engineering, Virginia Polytechnic Institute & State University Blacksburg, VA, 2013

Registrations

Registered Professional Engineer (PE): WV

Certifications

Corrosion Mitigation for Reinforced Structures

Bentley Accredited MicroStation Professional

Bentley Accredited Road Designer

Total Years Experience

+7

Steve Young is an experienced project manager, design and maintenance engineer for civil engineering projects. Young had more than 30 years of experience working with the WV DOT Division of Highways in the Roadway Design Section and in District One serving as the Design and Maintenance Engineers. The major design projects with which he has been involved included roadway design, drainage design, safety improvements, maintenance of traffic, resurfacing and landslide analysis and repair. He provided review and analysis of streetscape projects in Charleston, Clay, Mason and St. Albans and review of the renovation and new construction of the District One Campus as well as site development in the construction of new headquarters in Clay, Mason and Putnam Counties.

Project Experience

Sidewalk Rehabilitation Projects, WVDOH Planning Division, Statewide, WV

Project Engineer for numerous sidewalk rehabilitation projects under a statewide contract agreement with the WVDOH planning division.

County Route 60/15 Appalachian – Grady Street, Chelyan, WV

Design and management of a new drainage system. Subsurface drainage problems were solved by the installation of a new pipe network that connected to an existing drainage system which flowed into the Kanawha River. The project was completed utilizing District Forces for construction.

WV 16 Drainage, Clay County, Clay, WV

Design and management of improvements to existing drainage structures and installation of additional drainage structures in the Town of Clay. Street and business flooding was greatly alleviated with the improved drainage system that allowed storm water to flow from WV 16 to Elk River through Permanent Drainage Easements.

WV 622 Drainage Martins Branch, Kanawha County, WV

Design and management of a drainage structure replacement along Martins Branch. A 12' X 12' concrete box culvert was used to replace a collapsing corrugated metal pipe.

California Street Parking Lot, Kanawha County, Charleston, WV

Design and management of the parking lot was a Special Project for Capitol Complex General Services. General Services had recently purchased land along California Avenue to provide additional parking for the Capital Complex. The parking lot design required that MS4 constraints of storm water management needed to be met. Design of the lot provided 30 additional parking spaces utilizing District Forces for construction.

WV 817 Ludowici Industrial Access, Fraziers Bottom, WV

Design and management of Industrial Access Road Funds to implement a project to provide access to the Ludowici facility within the Putnam County Business Park. The design of the project includes the construction of Left Turn Lane (LTL) along WV 817 between County Route 35/29 and County Route 19.

Education

B.S. Civil Engineering, WV Institute of Technology

A.S. Surveying Technology, Glenville State College

A.S. Forest Technology, Glenville State College

Registrations

Professional Engineer (PE): WV, OH, PA, KY

Total Years Experience

+30

Greg Fox oversees TERRADON's Land Development Sector. Fox has been responsible for hundreds of notable commercial, educational and recreational site development projects during his 30 year career. During his time as Land Development Department Head, TERRADON has earned Engineering Excellence Awards from the West Virginia Association of Consulting Engineers, numerous Merit Awards from the American Society of Landscape Architects, and the Gold Award from the American Council of Engineering Companies. Fox has performed a number of site selection and analysis services on projects over the last 30 years.

Project Experience

The Bechtel Summit National Scouting Reserve, Glen Jean, WV
Provided Site Design for the 10,600+ acre site in Fayette County, WV. Responsible for site grading, construction drawings, NPDES design and coordination for all project sub-consultants for NPDES permitting with WVDEP.

Valley Park Master Planning & Expansion, Hurricane, WV
Served as a Site Designer for the expanding Valley Park in Hurricane, WV. The project included planning for athletic fields, multiple parking lots, access roads and greenspace, but also incorporated a walking trail that ties into existing park trails. The plan was produced in coordination with the WVDOT to determine roadway/walkway ingress/egress and designed in accordance with local, state and federal regulations.

Grand Vue Park, Moundsville, WV
Created a Master Plan for the expansion of the Marshall County, WV park. The Master Plan was followed by a Phase I design and construction drawing package that included six "tree house"- style lodges and a high adventure park to complement the park's existing zip lines. High adventure features include a 30' high aerial obstacle course, a 28' high rock climbing wall, a 60' gravity swing, a rappelling wall, a 43 ft mega jump and a giant trampoline.

Greater Huntington Parks and Recreation District, Huntington, WV
Responsible for trail design of a connector from Harveytown Park to Ritter Park in Huntington, WV. TERRADON provided a 3-Phase Master Planning approach for a section of trail that is predicted to be heavily used by the Huntington Community. Also responsible for the Master Planning of a unique trail system for the Greater Huntington Parks and Recreation District. The project design called for the connection of the Ceredo-Kenova area to Huntington. The trail system was designed to use the top of an earthen flood levy to move through urban areas. Design included alignments, typical sections and E&S Control.

Palatine Park Master Planning, Fairmont, WV
Provided master Planning Services for the City of Fairmont for the redevelopment of Palatine Park on the east side of the Monongahela River adjacent to downtown Fairmont, WV. The Master Plan featured new parking areas, walking trails, a vista overlook, a picnic gazebo and retail space.

Education

B.A. Landscape Architecture
West Virginia University

B.A. Geography & Planning
West Virginia University

Certifications

Registered Professional Landscape Architect: WV

LEED Accredited Professional

Total Years Experience

+30

SHAWN GRAY, ASLA

Project Designer



Shawn Gray is an experienced Site Designer and Land Planner who serves as an integral part of the TERRADON design team. He offers experience on many of TERRADON's highest profile projects, focusing on large scale site development and parks and recreation projects. Gray also provides site design and landscape architecture services for K-12 and Higher Education projects. He is responsible for developing site, grading, landscape and utility plans, site detailing and erosion sediment control plans and permitting.

Project Experience

The Summit Bechtel Family National Scout Reserve, Fayette County, WV

Provide Site Design for the 10,600+ acre site in Fayette County, WV. Responsible for site grading, construction drawings, NPDES design and coordination for all project sub-consultants for NPDES permitting with WVDEP.

Greater Greenbrier Sports Complex, Greenbrier County, WV

Provided Master Planning and Grading Design Services for the Greater Greenbrier Sports Complex located north of Lewisburg, WV. Five phases include: Master Planning, Grading Study, Full Construction Documents, Utility Layout, Road Design, Erosion and Sediment Control.

Grand Vue Park, Marshall County, WV

Created a Master Plan for the expansion of the Marshall County, WV park. The Master Plan was followed by a Phase I design and construction drawing package that included six "tree house"-style lodges and a high adventure park to complement the park's existing zip lines. High adventure features include a 30' high aerial obstacle course, a 28' high rock-climbing wall, a 60' gravity swing, a rappelling wall, a 43 ft mega jump and a giant trampoline.

Shawnee Multi-Sport Complex, South Charleston, WV

Provided Master Planning and Grading Design Services for the Shawnee Sports Complex in South Charleston, WV. Phases include: Master Planning, Grading Study, Full Construction Documents, Utility Layout, Road Design, Erosion and Sediment Control.

Putnam County Parks Master Planning, Putnam County, WV

Provided Master Planning and site civil design services for the expanding Valley Park in Hurricane, Putnam County, WV. This work is part of a nearly \$2 million expansion, which was completed in 2013 and adds an additional 6 acres to the park. The project included planning for athletic fields, multiple parking lots, access roads and greenspace, but also incorporated a walking trail that ties into existing park trails.

Fairmont Riverfront Park Master Plan, Fairmont, WV

The City of Fairmont and the Fairmont Renaissance Corporation intend to develop new recreation opportunities and at the same time enhance economic development opportunities for the community. The main goal of the planning process was to develop a plan that will allow for the comprehensive development and implementation of new elements to the river-front. The elements planned will include rehabilitation of an existing park and new recreation, commercial, and residential opportunities.

Education

B.A. Landscape Architecture
West Virginia University

Total Years Experience

+15

"Pete" Williams is a graduate of West Virginia University with a Bachelor of Science in Landscape Architecture. His responsibilities include landscape architectural design, grading and storm water drainage design, the design of pedestrian circulation systems and related amenities, roadway design, site planning, and quality control. Mr. Williams is registered as a professional Landscape Architect in West Virginia with more than 15 years of experience at TERRADON and more than 25 years of overall experience.

Project Experience

Grand Vue Park, Marshall County, WV

Created a Master Plan for the expansion of the Marshall County, WV park. The Master Plan was followed by a Phase I design and construction drawing package that included six "tree house"-style lodges and a high adventure park to complement the park's existing zip lines. High adventure features include a 30' high aerial obstacle course, a 28' high rock-climbing wall, a 60' gravity swing, a rappelling wall, a 43 ft mega jump and a giant trampoline.

Shawnee Multi-Sport Complex, South Charleston, WV

Provided Master Planning and Grading Design Services for the Shawnee Sports Complex in South Charleston, WV. Phases include: Master Planning, Grading Study, Full Construction Documents, Utility Layout, Road Design, Erosion and Sediment Control.

Greater Huntington Parks and Recreation District, Huntington, WV

Responsible for trail design of a connector from Harveytown Park to Ritter Park in Huntington, WV. TERRADON provided a 3-Phase Master Planning approach for a section of trail that is predicted to be heavily used by the Huntington Community. Also responsible for the Master Planning of a unique trail system for the Greater Huntington Parks and Recreation District. The project design called for the connection of the Ceredo-Kenova area to Huntington. The trail system was designed to use the top of an earthen flood levy to move through urban areas. Design included alignments, typical sections and E&S Control.

YMCA of Kanawha Valley, Kanawha County, WV

Provided master planning services and prepared construction documents for the development of a baseball field and large multi-purpose field along with a walking trail system for the existing YMCA facility.

Trace Fork Soccer Complex & Ice Arena, Kanawha County, WV

Provided master planning and site design services as well as prepared construction documents for the development of six carrying sized soccer fields, an indoor ice arena, and associated roadway and parking to serve the large facility.

Fairmont Riverfront Park Master Plan, Fairmont, WV

The City of Fairmont and the Fairmont Renaissance Corporation intend to develop new recreation opportunities and at the same time enhance economic development opportunities for the community. The main goal of the planning process was to develop a plan that will allow for the comprehensive development and implementation of new elements to the river-front. The elements planned will include rehabilitation of an existing park and new recreation, commercial, and residential opportunities.

Education

B.A. Landscape Architecture
West Virginia University

Total Years Experience

+27

TYLER BAILEY

WV/VA Field Services Project Manager



Tyler Bailey is a Field Services Project Manager, Construction Manager, Laboratory Supervisor, and Construction Inspector for TERRADON Corporation. Bailey is responsible for scheduling over 25 field service technicians and inspection personnel to projects, monitoring, and review of reports, and overall client management throughout West Virginia and Virginia Region. He also provides quality control testing and inspection for oil & gas, environmental, commercial, and residential construction projects throughout the Appalachian Region. He interfaces with site owners (public and private) and contractors through onsite meetings and offsite meetings to complete construction testing and inspection projects. Bailey is responsible for monitoring contractor's work for conformance to the design plans, specifications and general permit requirements; experience tracking daily quantities, completing daily inspection reports, reviewing payment requisitions and maintaining field sketchbooks and as-built drawings.

Project Experience

Hurricane Skatepark- Hurricane, WV

Field Services Project Manager and Construction QA/QC technician responsible for observing and documenting any and all progress on the site. Scheduling field services and inspection personnel to the project, monitoring, and review of reports, and overall client management throughout. The project consists a newly constructed concrete skatepark. Testing being performed onsite are concrete testing, rebar inspections, laboratory specimen breaks for compressive strength, etc. Along with job coordination with project managers, superintendent, contractors, and site engineers.

Beckley Fairfield Inn Hotel- Beckley, WV

Field Services Project Manager and Construction QA/QC technician responsible for observing and documenting any and all progress on the site. Scheduling field services and inspection personnel to the project, monitoring, and review of reports, and overall client management throughout.

Bridgeport Indoor Sports and Recreation Center QA/QC Inspector

Served as QA/QC inspector. Provided inspection and testing services during placement of Asphalt, concrete, soil and processed aggregate. Provided inspection and testing services during placement of utilities including water, gas and electrical lines as well as storm and sanitary sewer.

Nicholas County Schools-High School, Middle School, and Vo Tech- Summersville, WV

Field Services Project Manager and Construction QA/QC technician responsible for scheduling field services and inspection personnel to the project, monitoring, and review of reports, and overall client management throughout. The project consisted a newly constructed High School, Middle School, and Vo Tech School approximately 71 acre site of mass earthwork, onsite blasting, grading, storm drain installation, water line and sanitary sewer line installation, building foundations and masonry walls verifying bearing capacity and rebar inspections.

Education

B.S. Landscape Architecture, West Virginia University

Certifications

WVDOT TRET Level III

OSHA 10 HR

First Aid/CPR

ACI Concrete Field-Testing Technician-Grade 1

WVDOH PCC Inspector

WVDOH Soil & Aggregate Compaction Technician

WVDOH Asphalt Field & Compaction Technician

WVDOH Aggregate Technician

WVDOH Aggregate Sampling

Radiation Safety Officer

APNGA Nuclear Gauge Safety & USDOT Hazmat

Total Years Experience

+4