



**Statement of  
Qualifications**

to provide

**Professional  
Engineering  
Services**

to the

**Division of Natural  
Resources**

for a

**Timber  
Pile-Supported  
Pedestrian  
Boardwalk System  
at Stonewall  
Jackson Resort**

May 12, 2009

**"The Region's Premier  
Site Development Firm"**

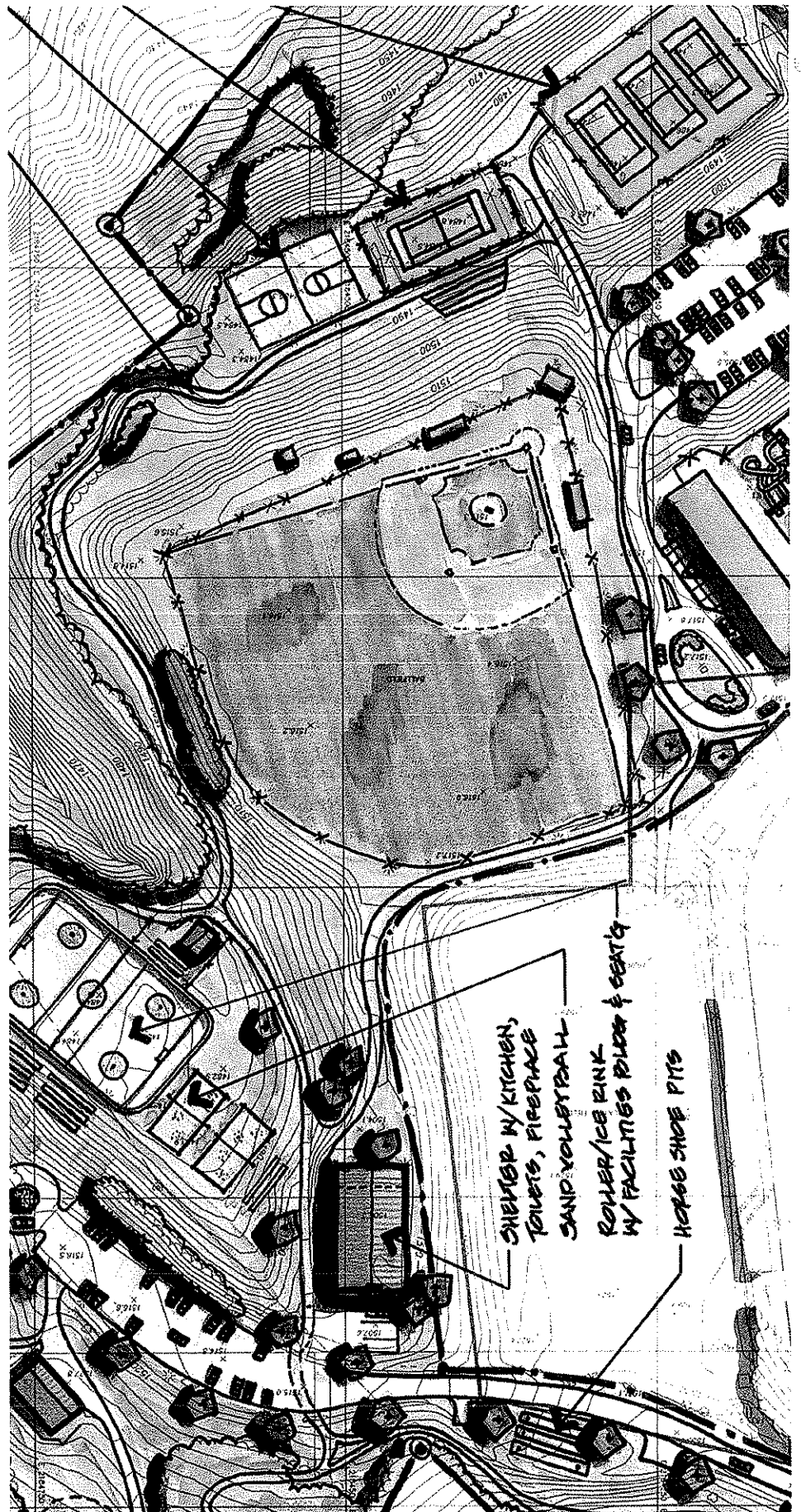


RECEIVED

Poca, WV  
Lewisburg, WV  
Richmond, VA

2009 MAY 12 PM 1:14

WV PURCHASING  
DIVISION





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

# Request for Quotation

RFQ NUMBER  
 DNR209169

PAGE  
 3

ADDRESS CORRESPONDENCE TO ATTENTION OF  
 FRANK WHITTAKER  
 304-558-2316

VENDOR

RFQ COPY  
 TYPE NAME/ADDRESS HERE

SHIP TO

DIVISION OF NATURAL RESOURCES  
 STONEWALL JACKSON STATE PARK  
 ATTN: PARK SUPERINTENDENT  
 ROUTE 1, BOX 0  
 ROANOKE, WV  
 26423 269-0523

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
04/13/2009				

BID OPENING DATE: 05/12/2009 BID OPENING TIME: 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p>DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION            BUILDING 15            2019 WASHINGTON STREET, EAST            CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 44</p> <p>REQ. NO.: DNR209169</p> <p>BID OPENING DATE: 05/12/09</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p> <p>----- 304-755-2536 -----</p> <p>PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT CONCERNING THIS QUOTE:</p> <p>----- Steven T. Engelhardt -----</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Steven T. Engelhardt</i>	TELEPHONE 304-755-8291	DATE 05/12/2009
TITLE Director of Marketing	FEIN 55-0687626	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



State of West Virginia  
 Department of Administration  
 Purchasing Division  
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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	LS		906-00-00-001		
<p>ARCHITECT/ENGINEERING SERVICES, PROFESSIONAL</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF NATURAL RESOURCES IS SOLICITING EXPRESSIONS OF INTEREST FOR ARCHITECTURAL AND ENGINEERING SERVICES FOR A TIMBER PILE-SUPPORTED PEDESTRIAN BOARDWALK SYSTEM FOR STONEWALL RESORT STATE PARK LOCATED IN ROANOKE WV, PER THE ATTACHED SPECIFICATIONS.</p> <p>TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WEST VIRGINIA PURCHASING DIVISION VIA FAX AT 304-558-4115 OR VIA EMAIL AT FRANK.M.WHITTAKER@WV.GOV. DEADLINE FOR TECHNICAL QUESTIONS IS APRIL 22, 2009 AT 4:00 PM. ALL TECHNICAL QUESTIONS RECEIVED, IF ANY WILL BE ANSWERED BY ADDENDUM AFTER THE DEADLINE.</p> <p>EXHIBIT 10</p> <p>ADDENDUM ACKNOWLEDGEMENT</p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NOS.:</p> <p>NO. 1 .....</p> <p>NO. 2 .....</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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 Purchasing Division  
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BID OPENING DATE: 05/12/2009 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
NO. 3						
NO. 4						
NO. 5						
<p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF THE BIDS.</p> <p>VENDOR MUST CLEARLY 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.</p> <p>.....SIGNATURE</p> <p>.....TERRADON Corporation.....COMPANY</p> <p>.....05/12/2009.....DATE</p> <p>REV. 11/96</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>REV. 1/2005</p> <p style="text-align: center;">NOTICE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE	TELEPHONE	DATE	
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



P.O. Box 519  
Nitro, WV 25143  
Tel: (304) 755-8291  
Fax: (304) 755-2636  
www.terraddon.com

P.O. Box 1635  
Lewisburg, WV 24901  
Tel: (304) 645-4636  
Fax: (304) 645-7614

5310 Markel Road  
Suite 102  
Richmond, VA 23230  
Tel: (804) 673-2560  
Fax: (804) 673-2561

May 12, 2009

Frank Whittaker, Senior Buyer  
Purchasing Division  
2019 Washington Street, East  
PO Box 50130  
Charleston, WV 25305-0130

**Re: Expression of Interest to provide Engineering Services for the  
Stonewall Jackson Resort Pile-Supported Pedestrian Boardwalk**

Dear Mr. Whittaker:

TERRADON Corporation is interested in providing consulting services for the above referenced project. We are a West Virginia firm with experience providing these types of services.

TERRADON's Senior Structural Engineer, Bill White, PE, will serve as project manager for this project. He will be assisted by our staff of landscape architects, engineers, surveyors, and technicians. We have all the resources required by this project available in-house.

We provided similar design services at the "Wetlands of Winfield" park and education center near Winfield, West Virginia. We are currently working with the WVDNR Parks and Recreation Section at Little Beaver State Park, providing design services for new camp ground facilities. We would like to continue our relationship with the successful completion of this project.

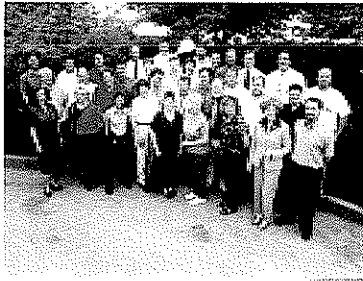
Our goal is to become WVDNR Parks & Recreation Section's preferred consultant. Thank you for your consideration to be short-listed.

Sincerely,

Steven T. Engelhardt  
Director of Marketing & Personnel

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*The people of TERRADON are its greatest asset.*



*TERRADON's design for the 4 to 6 lane widening of US 119 in Kanawha County won the WVDOH's Engineering Excellence Award for 2000. The design was completed in June of 2000.*

## OVERALL CAPABILITIES

TERRADON's staff provides a unique combination of professional experience coupled with extensive knowledge of the mountainous regions of the eastern United States and its challenging terrain. Professional services include highway, structural, civil, environmental, geotechnical, and mining engineering; geology, surveying, land planning, landscape architecture, and construction inspection.

TERRADON has assembled an impressive staff of over 60 professionals who offer unparalleled expertise in assembling and managing the multidisciplinary teams required to address large and complex roadway/bridge planning and design projects. Their depth of experience and proven managerial skills give TERRADON the capability to manage and execute transportation assignments to the highest standards.

## QUALIFICATIONS OF FIRM AND STAFF

TERRADON has been responsible for the design of road and bridge projects throughout West Virginia for the past 10 years. The firm has been awarded 3 WVDOH Engineering Excellence Awards. These projects include: Bridge and Roadway improvements to Flowing Springs Road in Jefferson County; Corridor G Widening in Kanawha County, and bridge and road improvements to Grade Road in Berkely County. The firm recently complete the design of a bridge replacement for Sedalia Arch Bridge, in Dodridge County. TERRADON is currently working for the WVDOH on the design of Sleeth's Run Bridge in Lewis County.

William (Bill) G. White, PE, is TERRADON's structural engineer. He is responsible for manageing all bridge design projects for the Firm. He has over 17 years experiece designing all types of bridges including pedestrian bridges. He will be assisted by our landscape architects, geotechnical engineers, civil engineers, surveyors, and construction inspectors.

TERRADON also is involved in a number of Park projects located throughout the state. The firm is currently working for WV DNR Parks Section at Little Beaver State Park for the design of new camp ground facilities. Descriptions of other park projects are included in the attached materials.

TERRADON does not anticipate using any sub-consultants for this project. We usually assist the owner in soliciting bids from drilling companies to preform drilling for our geotechnical investigations. Other than the drilling, all services you require for this project are available in-house.

## BRIDGE DESIGN

TERRADON's experienced bridge staff has produced final bridge plans, specifications and estimates for a diverse number of bridge types. The firm's bridge engineer and technicians have experience performing bridge hydraulics, as well as scour analysis for bridge sites over streams and rivers. TERRADON's bridge staff is committed to applying the most up to date technology to design and produce quality bridge plans.

TERRADON's bridge staff has designed superstructures including: curved plate girders, plate girders, prestressed AASHTO I-girders, and post-tensioned segmental concrete. Substructure design experience includes integral abutments, semi-integral abutments, piers, and drilled shafts. The firm's bridge engineer and technicians are also experienced in designing various types of retaining walls.

## LANDSCAPE ARCHITECTURE

TERRADON provides a wide range of Landscape Architecture Services which include:

- Master Planning • Site Feasibility Studies • Schematic Design
- Layout Plans • Grading Plans • Stormwater Management Plans
- Erosion Control Plans • Planting Plans • Construction Details
- Specifications • Presentation Drawings • Full Color Renderings
- Project Graphic Design • Funding Assistance

## GEOTECHNICAL ENGINEERING

TERRADON's staff has been involved in a variety of geotechnical related projects associated with structures, mining, waste disposal, construction of new buildings and environmental remediation. Capabilities include foundation design, retaining structure design, slope design and stability analysis, and boring supervision and inspection.

## SURVEYING

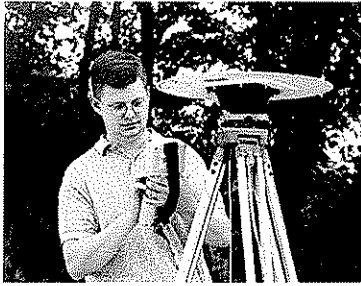
TERRADON provides an experienced staff of surveyors that utilize the latest technology to support its Highway Design projects. The field crews are equipped with the latest technology to provide efficient and highly accurate surveys for mapping control, boring stakeout, utility locations, etc.

## CONSTRUCTION SERVICES

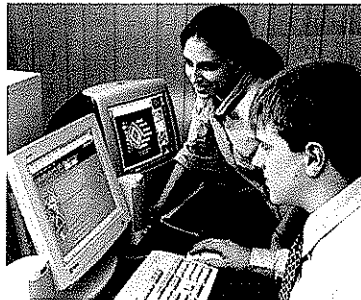
TERRADON's staff of bridge and roadway engineers have first-hand construction experience and routinely develop construction schedules and cost estimates. The firm also provides construction management and traffic maintenance.



## CAPABILITIES SUMMARY



*TERRADON's surveyors using the latest GPS technology.*



*TERRADON utilizes the very latest in computer technology.*



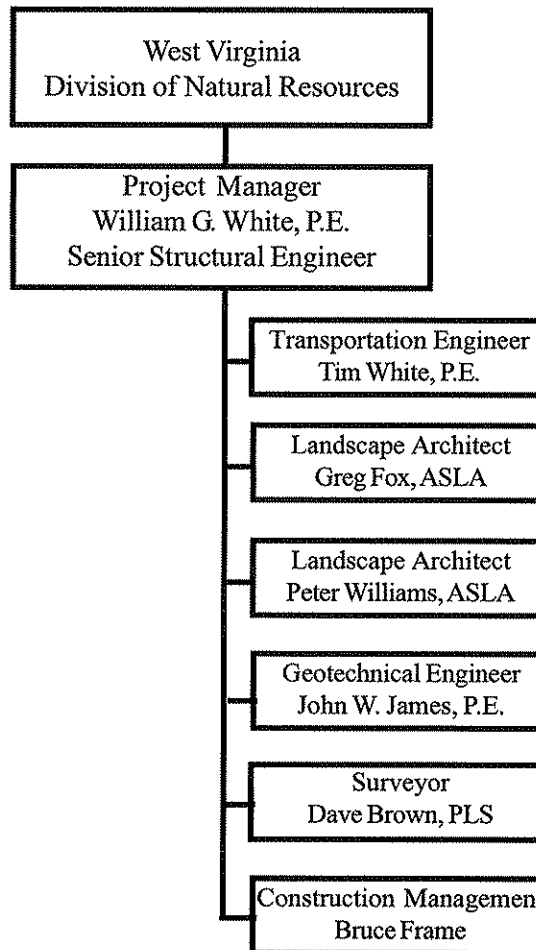
*TERRADON was responsible for Environmental Documentation through Construction Documents for road improvements of Flowing Springs Road in Jefferson County. TERRADON received a 2002 Engineering Excellence Award from WV DOT, DOH for this project.*

TERRADON offers the following:

- Genuine commitment of firm principals and professional staff.
- A project team of registered professionals and technical support staff who have an impressive background in bridge design.
- Experience working in West Virginia on Pedestrian Bridge projects.
- Experience working on environmentally sensitive projects.
- Substantial personnel and computer resources with capacity to undertake the project.
- Proven track record, with three WVDOH Engineering Excellence Awards.

## Workforce Available to Assign

Our team chart for this exciting project is presented below. TERRADON has all the resources available in-house and the personnel indicated can be dedicated to the project if TERRADON is selected. Resumes are included in the attached pages.



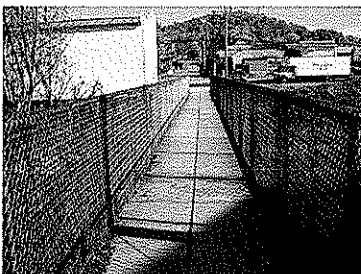
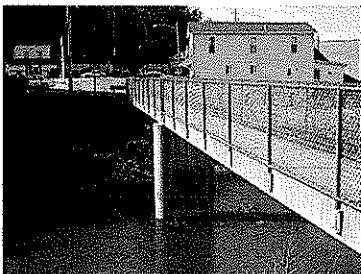
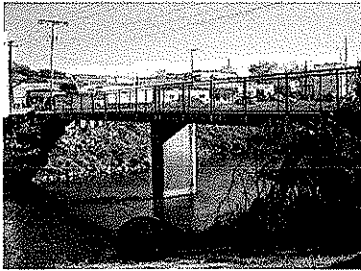
## Firms Ability to Manage Construction, Stay on Time & Budget

TERRADON consistently receives excellent ratings from WVDOH for meeting project budgets and deadlines. Please contact our references to confirm this. Our engineers have first hand experience with construction practices.

## Project Approach

Design of the pedestrian bridge will be done in accordance with the following codes and guidelines:

- AASHTO LRFD Bridge Design Specifications, 3rd Edition, 2004
- WVDOH Bridge Design Manual, March 1, 2004
- AASHTO Guide Specification for Design of Pedestrian Bridges, 1st Edition, 1997
- ADA Standards for Accessible Design



## Stonewood Arch Pedestrian Bridge, Designed by William White, PE

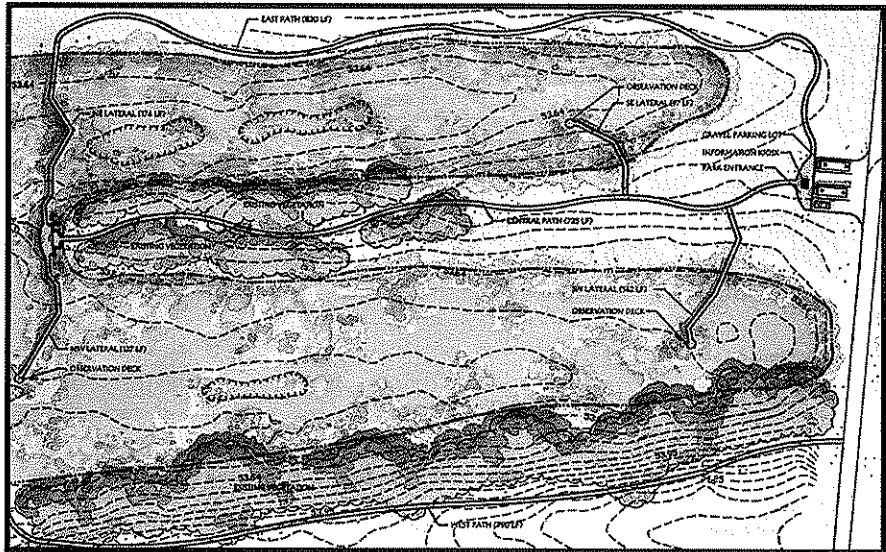
Stonewood Arch Pedestrian Bridge, S317-58/1-0.19, Harrison County, WV. Mr. White was the structural engineer responsible for the design and details of this pedestrian bridge. He recommended a two span structure with a total bridge length of 127'-0". Each span had a length of 63'-6". The bridge had a total width of 6'-0". AASHTO Standard Specification for Highway Bridges specifies the live load to be 60 psf for design. Performed analysis of the bridge and determined the size of the box beam to be 21". Computed the total load of the bridge and designed the substructure units. Both abutments were supported on a single row of four HP12x53 piles. Designed a straight shaft pier with a width of 6'-0" and a 3'-0" thickness. From analysis of the core boring data, it was determined that bedrock was close to the bottom of the streambed. Analysis was performed on the pier and an 8'x 6'x 3' spread footing founded 1'-0" into rock was designed. Due to the steep slope of the riverbanks, z-sheet piles were placed around the front of the abutments and utilized as the wingwalls. All earth pressures were computed and from that analysis the z-sheet pile walls were designed. Based upon geotechnical analysis the depth the piles were to be driven was determined.

# Recent Projects

## Wetlands of Winfield - Winfield, West Virginia

TERRADON provided master planning, design, and construction for this wetland education facility which includes such amenities as environmentally sensitive boardwalks and hiking trails, educational signing, and meeting platforms.

TERRADON provided design-build services for the facility to Toyota Manufacturing and AEP who sponsored the project. The firm worked very closely with U. S. Army Corps of Engineers who regulates wetland construction activity.



*Dedicated October 6, 2003*

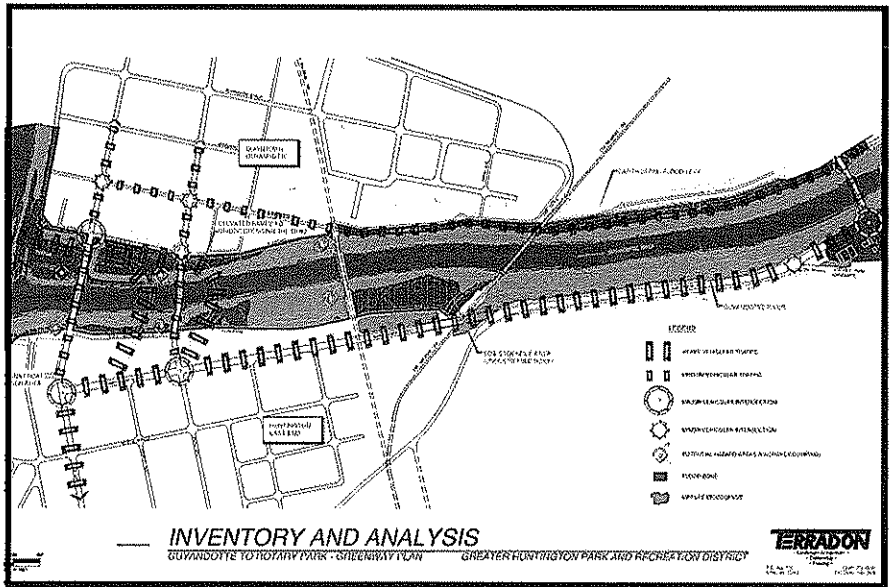


# Recent Projects

## Guyandotte Trail Planning and Design

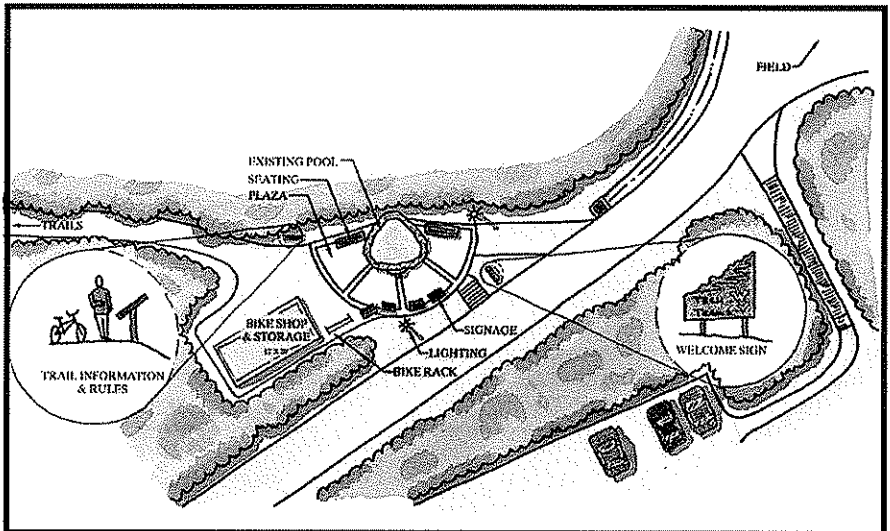
- Huntington, West Virginia.

TERRADON provided planning and design for this trail connecting Guyandotte Neighborhood and Rotary Park along the Guyandotte River in Huntington.



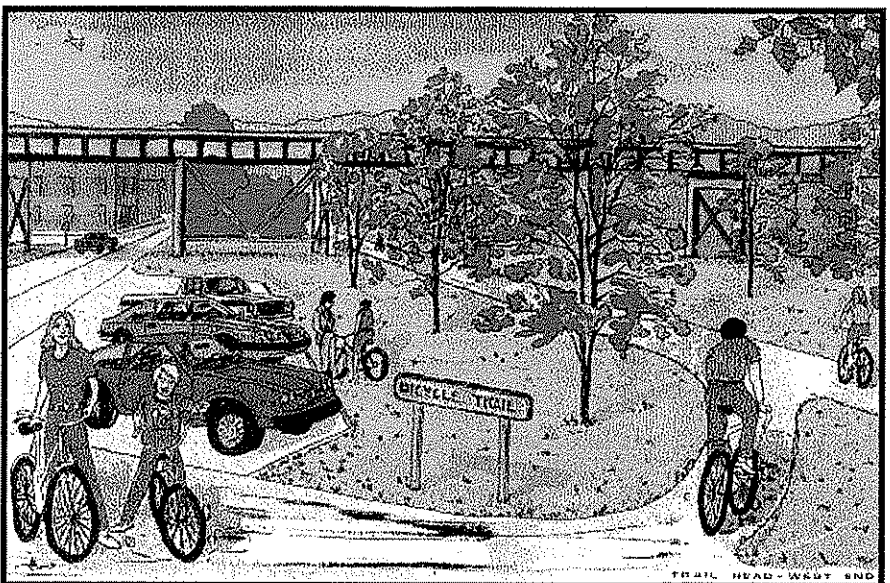
## West Virginia University, Institute of Technology

TERRADON provided master planning and design for an extreme sports park for WVUIT in Montgomery, West Virginia. The project included a bike and hiking trail network, marina/water sports facility, and land use plan.



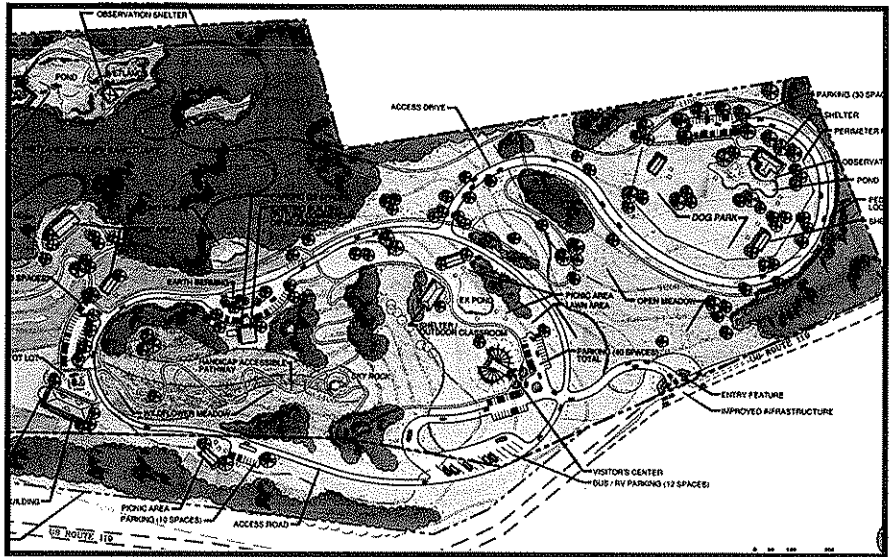
## KYOVA Bike Trail Greg Fcx

provided master planning through construction documents for a bike trail linking Kenova and Huntington, West Virginia.

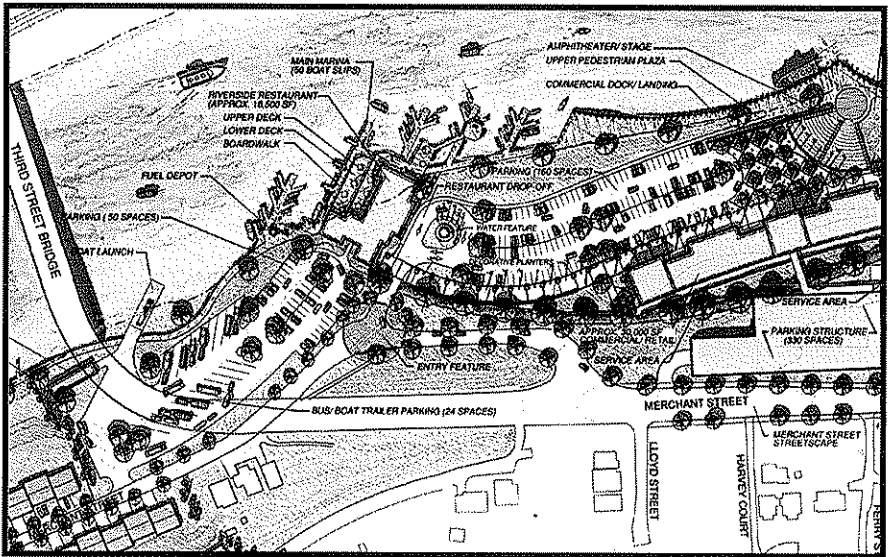


# Recent Projects

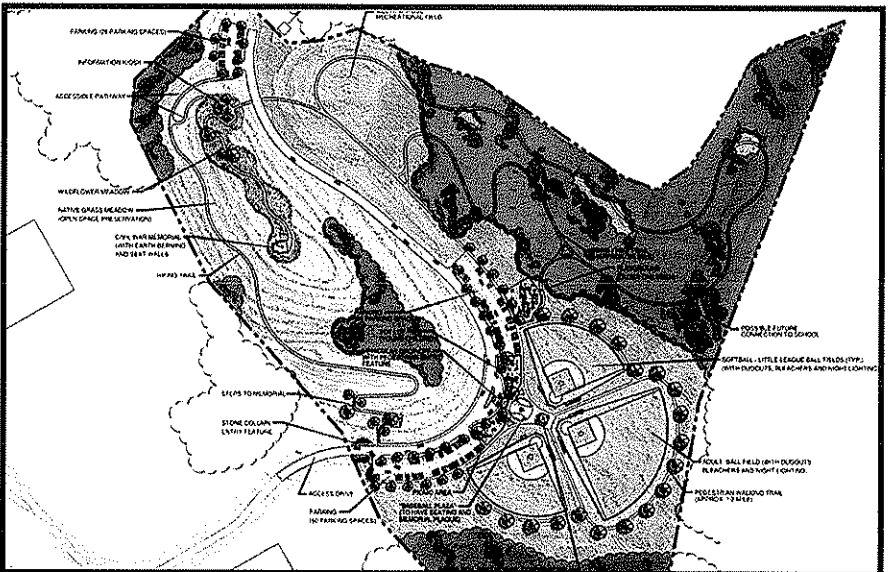
**Dorsey's Knob Park and Visitors Center**  
 - Morgantown, West Virginia  
 TERRADON provided a site master plan for this multi-user facility. When completed the facility will provide recreation as well as a one-stop visitor center for the city, county, and West Virginia University visitors.



**City of Fairmont Riverfront Development Master Plan**  
 - Fairmont, West Virginia  
 TERRADON provided a land use study and proposed land use master plan for this 30 acre development located on the Monongahela river in Fairmont, West Virginia. TERRADON was awarded an Engineering Excellence Award for this project by the West Virginia Association of Consulting Engineers in October 2002.



**Roane County Park**  
 - Spencer, West Virginia  
 TERRADON provided master planning for this county park that includes a Civil War memorial, little league baseball complex, picnic areas, walking trails and public green space.

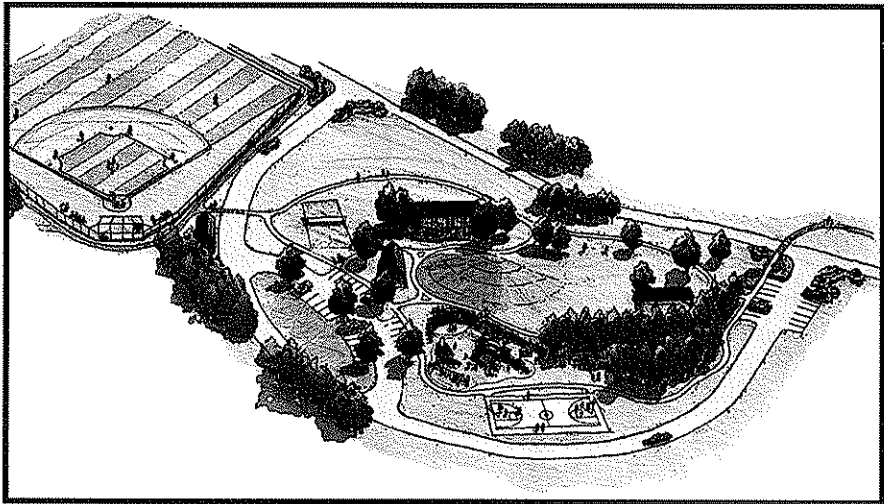


# Recent Projects



## CURRY PARK

TERRADON prepared a master plan and recreational land use plan for 220 acres of undeveloped land. The site is located in Upshur County, West Virginia.



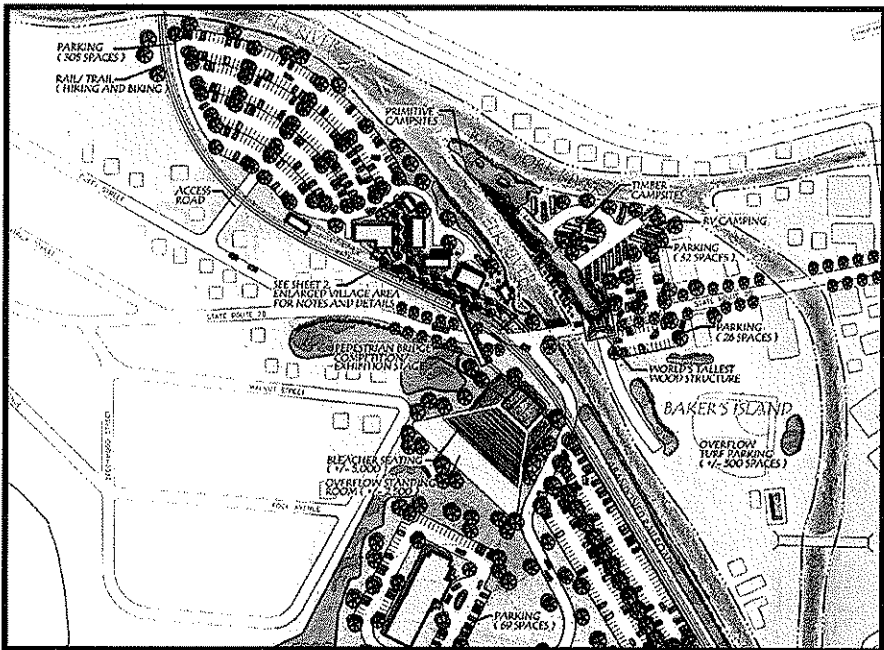
## HARVEYTOWN PARK

TERRADON provided site analysis, inventory mapping, master planning, and construction documents for a neighborhood park to the Greater Huntington Park and Recreation District. Phase I construction which includes a Picnic Shelter was recently completed.



## WOODCHOPPER'S VILLAGE

TERRADON developed a master plan and recreation feasibility study for the development of this lumberjack/woodchopper's themed recreation destination park. Project amenities include a woodchopping/lumberjack arena to be used for world championship chopping contests, timber industry educational exhibits, arts & crafts village, cultural and history museum, railroad attractions, rail trails, and fishing amenities.



## References

Paul Mattox, PE, WVDOH Commissioner of Highways, (304) 558-0444

John Morrison, WVDOH Project Manager, (304) 558-2885

Jim McClelland, CPRP, Director  
Greater Huntington Parks & Recreation District, Harveytown Park  
(304) 696-5954

John E. Gibson, Braxton County Commission  
Braxton County Park  
(304) 765-2833 or (304) 765-5923

Jay Roberts, City Planner  
Fairmont Riverfront Park and Others  
(304) 366-6211, Ext. 308

Thomas Flynn, Planner  
Fairmont Riverfront Park  
(410) 267-7220

Anne Cavalier, Vice President - Purchasing  
West Virginia University - Institute of Technology, Extreme Sports Park  
and Marina Study (Project received an Engineering Excellence Award)  
(304) 442-3049

Larry Lawrence, Director Physical Plant  
Fairmont State College Inter Campus Masterplan  
(304) 367-4295

**PROGRAM TEAM STAFFING**

**WILLIAM G WHITE, PE**  
**SENIOR STRUCTURAL ENGINEER**

Mr. White has more than eighteen years experience as a structural engineer. He has a strong background in structural analysis and design of bridge structures. Mr. White has experience designing various superstructure and substructure types. Superstructure design experience includes post-tensioned concrete box girders, curved plate girders, plate girders, rolled beams, pre-stressed concrete beams and timber. Substructure design experience includes integral abutments, semi-integral abutments, pile supported footings, spread footings, piers and drilled shafts.

His first position was as a Structural Design Engineer for the bridge section of the West Virginia Department of Transportation. While at the West Virginia Department of Transportation, Mr. White also served as a member of the Bridge Design Manual Task Force.

**REGISTRATION** Professional Engineer: West Virginia, Virginia, North Carolina, Ohio, Kentucky, Florida, and Arkansas

**EDUCATION** B.S. Civil Engineering, 1987  
West Virginia Institute of Technology

**WORK EXPERIENCE** 2004 - Present TERRADON Corporation  
1998 - 2004 Louis Berger Group  
1987 - 1998 WV Division of Highways

**PROJECT EXPERIENCE** Sleeths Run Bridge, Lewis County, WV  
Stonewood Arch Pedestrian Bridge, Harrison County, WV.  
Sedalia Arch Bridge, Doddridge County, West Virginia  
I-40 Widening Project, Pulaski County, Arkansas  
Monongahela River Bridge and Approaches, Marion County, WV  
Keith Bridge, Boone County, WV  
Viola Bridge, Marshall County, WV  
Route 58, Danville Bypass, Pittsylvania County, VA  
Erection Plans, Corridor H - South Branch Potomac River, Hardy County, WV  
Erection Plans, Bluestone Gorge Bridge, Mercer County, WV  
Erection Plans, US 35 Bridge over Three Mile Creek, Mason County, WV  
Erection Plans, Corridor H Section 7, Bridge #10154, Hardy County, WV  
Erection Plans, County Route 220-8W, Hardy County, WV  
Erection Plans, Etam Bridge, Preston County  
Erection Plans, Forman Bridge over Corridor H, Grant County, WV  
Erection Plans, County Route 9, Greenville Road Bridge, Kanawha Co., WV  
Erection Plans, Haynes Branch Bridge, Kanawha County, WV  
Erection Plans, I-68 Bridge 10496, Preston County, WV  
Erection Plans, Gypsy Bridge over West Fork River, Harrison County, WV



PROGRAM TEAM STAFFING

**TIMOTHY T WHITE, PE**  
**HIGHWAY/ROADWAY ENGINEER**

Mr. White manages TERRADON's Transportation Department and has seventeen years experience in the design and project management of various transportation projects. His extensive project experience ranges from small urban intersections and streets to major interchanges, freeways and interstate highways. His capabilities include all aspects of highway design, including alignment studies, traffic control plans, and signing and pavement marking plans. He also has extensive experience in stormwater management, and environmental permitting.

**REGISTRATION** Professional Engineer: West Virginia, Ohio, Kentucky, and Arkansas.

**EDUCATION** B. S. Civil Engineering, 1992, West Virginia University

<b>WORK EXPERIENCE</b>	2003 - Present	TERRADON Corporation
	1998 - 2003	Louis Berger Group, Charleston, WV
	1995-1997	Chapman Technical Group, St. Albans, WV
	1993 - 1995	Battleridge Construction Company, Belle, WV
	1992 - 1993	WVDOH, Charleston, WV

**PROJECT  
EXPERIENCE** Project Manager for the following WVDOH projects since joining TERRADON in 2003: Four to six lane widening of Corridor L in Summersville  
Martinsburg Drainage Study  
Improvements of Grade Road in Berkeley County  
Replacement of Sedalia Arch Bridge in Doddridge County  
Replacement of Sleeths Run Bridge in Lewis County  
Value Engineering, US Route 35 & WV 34 Intersection, Putnam County  
Value Engineering, Fairmont Connector, Fairmont

City of Fairmont - Coke Works Site Traffic Impact and Roadway Improvement Study. Routes include Marion County Route 73 (Speedway Avenue), County Route 72/2 (Suncrest Boulevard) and the following local streets: Morgantown Avenue, Lafayette Street and Dixie Avenue.\*

Before joining TERRADON, Mr. White worked as a Senior Roadway Engineer for a large international firm. He was responsible for the design of 6.5 miles of four to six lane widening of Interstate 40 near Little Rock, Arkansas. The project is currently under construction with a projected cost of 63 million dollars.

Mr. White routinely designs access roads to large commercial developments to meet WVDOH Design Standards.

Member, American Council of Engineering Companies



**PROGRAM TEAM STAFFING**

**GREGORY D FOX, ASLA, LEED AP  
LANDSCAPE ARCHITECT**

TERRADON's Land Development Services are managed by Gregory D. Fox, ASLA, LEED AP. Mr. Fox, a native of West Virginia, has been responsible for a number of notable recreation, commercial, and educational site development projects since joining TERRADON in February of 2000. His group earned a 2001 Engineering Excellence Award from the West Virginia Association of Consulting Engineers for the master planning of an extreme sports park at WVUIT in Montgomery. They also earned a 2002 Engineering Excellence Award from the West Virginia Association of Consulting Engineers and a 2002 Merit Award from the American Society of Landscape Architects for the City of Fairmont Riverfront Master Plan project. A 2005 Gold Award from the American Council of Engineering Companies and a 2005 Honor Award from the American Society of Landscape Architects was presented to the firm for the site design of the new West Virginia Division of Environmental Protection Headquarters Building.

**REGISTRATION** Professional Landscape Architect  
West Virginia  
Virginia  
Ohio  
Pennsylvania

**ACCREDITATION** LEED AP

**EDUCATION** B. S. Landscape Architecture, 1988, West Virginia University  
B. A. Geography (Planning), 1994, West Virginia University

**WORK EXPERIENCE**

2000 - Present	TERRADON Corporation
1996 - 2000	Martin Boal Anthony & Johnson Architects, Charlotte, NC
1993 - 1996	Site Design, Huntington, WV
1989 - 1993	E.G.&G., Inc., Akron, OH
1988 - 1989	PSC Engineers, Lancaster, PA

**PROJECT EXPERIENCE**

- Fairmont Coke Works Site Redevelopment, Fairmont, WV
- Fountain Place Development, Logan, WV
- Southridge Center Phase II, Charleston, WV
- Fairmont Riverfront Master Plan, Fairmont, WV
- Blue Mountain Village, Bluefield, WV
- Ashland Development, Southern, WV
- Quarry Creek Expansion, Charleston, WV
- Lake of Egypt, Southern Illinois
- River Ridge, Gauley Bridge, WV
- Leatherwood Crossing, Bluefield, VA

PROGRAM TEAM STAFFING

**PETER J WILLIAMS, ASLA**  
**LANDSCAPE ARCHITECT**

Pete Williams, ASLA, brings over eleven years of experience, and has worked on a variety of projects located throughout West Virginia. 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. He has worked on a number of state parks, highway projects, and schools. He is the current State Chapter President of the American Society of Landscape Architects.

**REGISTRATION** Professional Landscape Architect, West Virginia

**EDUCATION** B. S. Landscape Architecture, 1991, West Virginia University

**WORK EXPERIENCE**  
2000 - Present TERRADON Corporation  
1992 - 2000 Chapman Technical Group, St. Albans, WV  
1991 - 1992 Landscapes Unlimited, Morgantown, WV

**PROJECT EXPERIENCE** Over the course of his career, Mr. Williams has been involved in a number of notable projects:

- WVUIT Extreme Sports Park Master Plan
- Charleston Job Corps
- Marshall University Softball Field
- Buckhannon/Upshur High School Track Addition
- Trinity High School
- Phillip Barbour High School
- Fairmont Senior High School Addition and ADA Renovations
- Capon Bridge Middle School
- Winfield High School Addition
- Berkeley Intermediate School
- McDowell Co. Elementary
- Doddridge County High School
- Cass Elementary School
- Huntington VA Hospital
- Beckley Federal Courthouse
- Upshur County Courthouse

PERSONNEL RESUMES

**JOHN W JAMES, PE**  
**SENIOR GEOTECHNICAL ENGINEER**

Senior engineer for various geotechnical, environmental, and mining projects. Prior to joining TERRADON in 2004, Mr. James was the proprietor of JAMES ENGINEERING, a one man consulting engineering company with projects in geotechnical, hydrological, environmental, foundation, structural and general civil engineering, as well as forensic engineering. Mr. James specializes in innovative and cost saving concepts for his projects. Typical projects include numerous foundation investigations, studies and designs for landfills and environmental facilities, surface and ground water studies and remediation, foundation investigations and designs ranging in size from houses to major industrial complexes, roads, highways and bridges, earth and rockfill dams, storm drainage facilities, airport facilities, landslide analysis and correction, and forensic engineering.

**REGISTRATION** Professional Engineer: West Virginia

**EDUCATION** B. S. Civil Engineering, 1968, West Virginia Institute of Technology  
30 Post-Graduate Hours in Civil and Environmental Engineering

**AFFILIATIONS** American Society of Civil Engineers  
Past President of Charleston Branch and West Virginia Section  
National and West Virginia Society of Professional Engineers  
Past President (Charleston Chapter)  
Young Engineer of the Year Award (Charleston Chapter)

**PROJECT EXPERIENCE** Geotechnical investigation and design of many bridge, roadway, and slide projects. Currently providing these services for various WVDOH projects including Sleeths Run Bridge Design Project and the Glendale Narrows Slide Remediation project.

Geotechnical investigation and design of numerous water and wastewater treatment plants, including Charleston Wastewater Treatment Plant, North Beckley Wastewater Treatment Plant, Buckhannon Water & Wastewater Treatment Plant, Elkins Water & Wastewater Treatment Plant, Berkley Spring Water Treatment Plant, Morgantown Wastewater Treatment Plant, Elk Pinch Wastewater Treatment Plant, Parkersburg Wastewater Treatment Plant, St. Albans Water Treatment Plant.

Design and upgrade of water supply dams including Upper & Lower Dog Run water supply dams, Salem, West Virginia; Key Dam, Bluefield, West Virginia; Chatham Lake Dam (irrigation supply), Shady Springs, West Virginia. Involvement with geotechnical aspects included interaction with process and structural aspects and structural design of many components.

**PROGRAM TEAM STAFFING**

**DAVE BROWN, PS**  
**PROFESSIONAL SURVEYOR**

Mr. Brown has over 10 years of technical experience supporting both civil and mining engineering. He is responsible for supervising survey crews, field sampling, highway design, engineering calculations, and CAD drafting. He has performed surveys for highway, boundary retracement, mining, site development, ALTA land title surveys, flood zone certification, environmental and geotechnical projects. Mr. Brown earned a Bachelor of Science Degree from West Virginia Institute of Technology in Civil Engineering Technology with an emphasis in surveying.

**REGISTRATION** Professional Surveyor, West Virginia

**EDUCATION** B.S., Surveying, 1995, West Virginia Institute of Technology

**PROJECT EXPERIENCE** Mr. Brown has provided surveying for the following School projects:  
Tug Valley High School - Athletic Fields  
Doddridge County High School - New School  
Back Creek Intermediate School - Building Addition  
Capital High School - Athletic Fields  
Winfield High School - Building Addition  
Capon Bridge Middle School - New School  
Bunker Hill Elementary  
Kermit K through 8 - New School

Mr Brown has provided surveying and right-of-way plans for the following WVDOH projects:  
Corridor L Widening in Summersville  
Improvements of Grade Road in Berkeley County  
Replacement of Sedalia Arch Bridge in Doddridge County  
Corridor G Widening, Kanawha County  
US Route 9 Improvements, Jefferson County

**PROGRAM TEAM STAFFING**

**BRUCE FRAME**  
**TESTING & INSPECTION MANAGER**

Bruce Frame is TERRADON'S Manager of Construction Inspection and Materials Testing. He has 35 years of experience in materials testing in the Materials Section of the West Virginia Department of Transportation, Division of Highways. Since joining TERRADON in 2000 he has been responsible for material testing and inspection on a wide variety of construction projects.

**PROFESSIONAL  
CERTIFICATIONS**

- NICET Level 3 Engineering Technician
- West Virginia Certified Portland Cement Concrete Technician & Insp.
- West Virginia Certified Aggregate Inspector
- West Virginia Certified Hot Mix Asphalt Technician & Inspector
- Fairmont State College Engineering Technician/Technologist Certification Program #1727 Level III - TET

**WORK  
EXPERIENCE**

2000 - Present      TERRADON  
1966- 2000        WV Department of Transportation, District 1

**PROJECT  
EXPERIENCE**

Notable recent projects Mr. Frame was responsible for include:  
WVDOH Materials Control, Soil and Testing Division Headquarters  
Point Pleasant River Front Park  
Upper Kanawha County Community Building  
State Route 34 Widening  
US 35 - Interstate 64 Interchange  
WV Corridor G  
WV Corridor H  
WV Corridor D  
Coalfields Expressway  
Merritts Creek Connector  
Odaville Bridge  
Dunlaugy Bridge  
Culloden Bridge  
WV Turnpike Signage  
Hal Greer Blvd Widening