



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  
 DEP15704

PAGE  
 1

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
 GUY NISBET  
 304-558-8802

VENDOR

\*709060049 304-755-8291  
 TERRADON CORPORATION  
 PO BOX 519

NITRO WV 25143

RECEIVED  
 DEC 27 2011

SHIP TO

ENVIRONMENTAL PROTECTION  
 DEPARTMENT OF  
 OFFICE OF AML&R  
 601 57TH STREET SE  
 CHARLESTON, WV  
 25304 304-926-0499

BY:.....

DATE PRINTED 12/22/2011	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: 01/31/2012 BID OPENING TIME 01:30PM

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	JB		962-52	244,356.00	244,356.00
<p>OPEN END CONTRACT</p> <p>MAPPING SERVICES FOR NORTHERN COUNTIES OF WV</p> <p>THE WEST VIRGINIA PURCHASING DIVISION, FOR THE AGENCY, THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF ABANDONED MINE LANDS AND RECLAMATION IS SOLICITING BIDS FROM QUALIFIED VENDOR'S FOR A OPEN-END CONTRACT TO PROVIDE MAPPING SERVICES IN THE NORTHERN COUNTIES OF WEST VIRGINIA PER THE FOLLOWING SPECIFICATIONS, TERMS AND CONDITIONS, BID REQUIREMENTS AND THE VENDOR'S SUBMITTED AND ACCEPTED BID SCHEDULE.</p> <p>THESE MAPPING SERVICES WILL RESULT IN THE DEVELOPMENT OF CONTRACT DOCUMENTS FOR DESIGN &amp; CONSTRUCTION PROJECTS THROUGHOUT THE NORTHERN COUNTIES OF WEST VIRGINIA INDICATED HEREIN.</p> <p>INQUIRES:</p> <p>WRITTEN QUESTIONS SHALL BE ACCEPTED THROUGH THE CLOSE OF BUSINESS ON FRIDAY, JANUARY 13, 2012. QUESTIONS MAY BE SENT VIA: USPS, FAX, COURIER OR EMAIL. IN ORDER TO ASSURE THAT NO VENDOR RECEIVES AN UNFAIR ADVANTAGE, NO SUBSTANTIVE QUESTION WILL BE ANSWERED ORALLY. IF POSSIBLE, EMAIL QUESTIONS ARE PREFERRED. ANY TECHNICAL QUESTIONS RECEIVED WILL BE ANSWERED BY FORMAL WRITTEN</p>						

RECEIVED

2012 JAN 31 AM 11:22

WV PURCHASING DIVISION

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>R. W. H.</i>	TELEPHONE (304) 755-8291 ext 176	DATE 1/31/12
TITLE MARKETING DIRECTOR	FEIN 55-0687626	ADDRESS CHANGES TO BE NOTED ABOVE

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





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<p>ADDENDUM TO BE ISSUED BY THE PURCHASING DIVISION AFTER THE DEADLINE HAS LAPSED.</p> <p>ADDRESS INQUIRIES TO:</p> <p>GUY NISBET            DEPARTMENT OF ADMINISTRATION            PURCHASING DIVISION            2019 WASHINGTON STREET, EAST            CHARLESTON, WV. 25305            FAX: 304.558.4115            EMAIL: GUY.L.NISBET@WV.GOV</p> <p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AWARD..... AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Ry White</i>	TELEPHONE (304) 755-8291 ext 176	DATE 1/31/12
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<p>(1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT WITHOUT FURTHER ORDER.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Rywh</i>	TELEPHONE (304) 755-8291 ext 176	DATE 1/31/12
TITLE MARKETING DIRECTOR	FEIN 55-0687626	ADDRESS CHANGES TO BE NOTED ABOVE

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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>REV. 05/26/2009</p> <p>EXHIBIT 10</p> <p style="text-align: center;">REQUISITION NO.: DEP15704....</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 NO.'S:</p> <p>NO. 1 <i>(initials)</i> .....</p> <p>NO. 2 .....</p> <p>NO. 3 .....</p> <p>NO. 4 .....</p> <p>NO. 5 .....</p> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS		
SIGNATURE <i>Ry W...</i>	TELEPHONE (304) 755-8291 ext 176	DATE 1/31/12
TITLE <i>MARKETING DIRECTOR</i>	FEDIN 55-0687626	ADDRESS CHANGES TO BE NOTED ABOVE

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V E N D O R	*709060049      304-755-8291
	TERRADON CORPORATION
	PO BOX 519
NITRO WV 25143	

S H I P T O	ENVIRONMENTAL PROTECTION
	DEPARTMENT OF
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<p>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 style="text-align: center;"> <i>R. J. White</i>            .....            SIGNATURE    <i>TERRADON CORPORATION</i>            .....            COMPANY    <i>1-31-2012</i>            .....            DATE         </p> <p>NOTE: THIS ADDENDUM ACKNOWLEDGEMENT SHOULD BE SUBMITTED WITH THE BID.</p> <p>REV. 09/21/2009</p> <p>PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE AGENCY AS A CONDITION OF AWARD.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>R. J. White</i>	TELEPHONE <i>(304) 755-8291</i>	DATE <i>1/31/12</i>
TITLE <i>MARKETING DIRECTOR</i>	FEIN <i>55-0687626</i>	ADDRESS CHANGES TO BE NOTED ABOVE

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LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
***** THIS IS THE END OF RFQ DEP15704 ***** TOTAL:						<u>244,356.00</u>

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Ry...</i>	TELEPHONE (304) 755-8291	DATE 1/31/12
TITLE MARKETING DIRECTOR	FEIN 55-0087626	ADDRESS CHANGES TO BE NOTED ABOVE

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Rev 09/08

## State of West Virginia

# VENDOR PREFERENCE CERTIFICATE

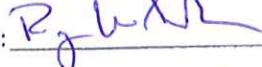
Certification and application\* is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

1. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or,  
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,
3. **Application is made for 2.5% resident vendor preference for the reason checked:**  
 Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid, or,
4. **Application is made for 5% resident vendor preference for the reason checked:**  
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. **Application is made for 3.5% resident vendor preference who is a veteran for the reason checked:**  
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Under penalty of law for false swearing (*West Virginia Code*, §61-5-3), Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: TERRADOL CORPORATION Signed:   
 Date: 1-31-2012 Title: MARKETING DIRECTOR

\*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.



STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

**DEFINITIONS:**

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**EXCEPTION:** The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (*West Virginia Code* §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

**WITNESS THE FOLLOWING SIGNATURE**

Vendor's Name: Terradon Corporations

Authorized Signature: Muhammad U. Riaz Date: 1-31-2012

State of WV

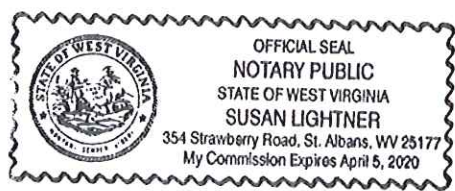
County of Putnam, to-wit:

Taken, subscribed, and sworn to before me this 31 day of January, 2012.

My Commission expires April 5, 2020

AFFIX SEAL HERE

NOTARY PUBLIC Susan Lightner





# Statement of Qualifications



## SURVEYING & MAPPING

A critical piece to the engineering and construction industry, TERRADON is regarded as a top-tier firm in the surveying and mapping trade. TERRADON focuses on construction stakeout, ALTA survey, topographic survey, and boundary survey services.

## About TERRADON

For more than 20 years TERRADON Corporation has provided a wealth of engineering services, blanketing West Virginia and surrounding states with successful projects. The company built its reputation on expert personnel and quality, time-sensitive service. Those same founding principles hold true today. TERRADON maintains more than 50 leading-edge staff selected to service markets like education, commercial development, water, transportation and recreation. Its offices sustain customers through a wide-range of engineering offerings. TERRADON'S seven departments work cohesively to provide turn-key solutions that strive to exceed client expectations.

TERRADON's corporate culture promotes innovation and progressive thinking. Its employees understand the purpose behind their services and work to cultivate lasting relationships with clients through honest, hard work.

ENGINEERING  
SERVICES

HIGHWAY

BRIDGE

CIVIL

STRUCTURAL

GEOTECHNICAL

ENVIRONMENTAL

SURVEY

LAND DEVELOPMENT



**TERRADON**

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# Prospectus to Provide Professional Consulting Services

This unpriced prospectus is provided in response to the West Virginia Department of Transportation, Division of Highways solicitation for:

## Mapping Services in Northern Counties of West Virginia

### 1. Professional Qualifications

TERRADON personnel have a wealth of experience providing consulting services to the WVDOH. The following personnel are located in TERRADON's Poca, West Virginia headquarters. Each is licensed in West Virginia and available on an as-need basis. Resumes for the individuals below are included in this proposal.

» **Robert Thaw, P.S.**

As TERRADON's Survey Department Head, Thaw has more than 24 years of survey industry experience.

» **Dave Brown, P.S.**

TERRADON's Right-of-Way Surveyor has more than 14 years of experience.

» **Robert Tuck, PE, RLS, CP (Subconsultant)**

Tuck is the owner and principal in charge of Tuck Mapping, who will provide subconsultant services to TERRADON for Aerial Photography and Photogrammetric Services

» **Brian Bakanas, P.S.**

Mr. Bakanas is a land surveying party chief responsible for electronic data collection in the field and subsequently analyzing and plotting the field data in the office.

» **Randy Melton, P.S.**

Melton serves as a Senior Project Manager for TERRADON Corporation. Melton is responsible for all TERRADON survey equipment and practice management.

### CLIENT-DRIVEN

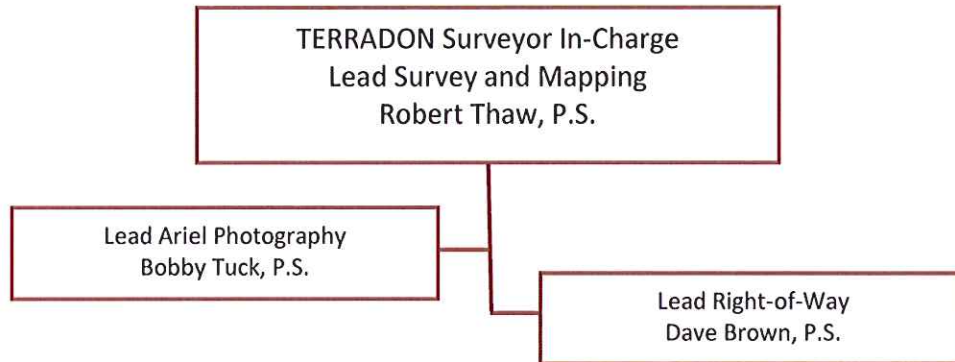
*"Working with the TERRADON staff is an exceptional experience. They always respond to our needs with urgency and professionalism. Not only do they provide outstanding design engineering services, they continue to support us through construction right up to placing the infrastructure in service. The answer to every question posed to their engineers is "yes sir, we can do that...how soon do you need it?"*

*Jimmy Wriston, P.E.  
Regional Design Engineer  
WVDOH, Engineering Division*



# Professional Qualifications

## TERRADON Survey and Mapping Team



The Lead Surveyor, Mr. Robert Thaw, P.S. is a licensed Professional Surveyor in West Virginia and TERRADON's principal surveyor located at the headquarters office in Poca, West Virginia. He will be responsible for the oversight and review of all survey reports and plans. He will sign and seal all documentation and plans.

Mr. Thaw possesses more than 24 years of survey industry experience. His experience varies in projects that have ranged from boundary surveys to detailed design surveys. Thaw's projects have ranged from site selection projects to roadway and bridge projects. Thaw has been involved on numerous WVDOH projects from a survey perspective most recently Sleeths Run Bridge, US 35

Value Engineering, Corridor G Widening and the Fairmont Connector.

The Lead Right-of-Way Surveyor, Mr. Dave Brown, P.S. is a licensed Professional Surveyor in West Virginia and TERRADON's Senior Right-of-Way Surveyor located at the headquarters office in Poca, West Virginia. He will be responsible for oversight and review of all Right-of-Way reports and plans. He will sign and seal all documentation.

Mr. Brown has more than 14 years of survey and Right-of-Way experience. Mr. Brown recently oversaw the completion of survey and mapping work for The Summit;





# Professional Qualifications

Bechtel National Scouting Reserve in Fayette County, WV. Brown was heavily involved in TERRADON's contract to provide survey and mapping for nearly 11,000 acres which is being developed for use as the future home of the Boy Scouts of America's jamboree site.

**The Lead Aerial Photographer, Mr. Robert Tuck, P.E., RLS, CP,** has over 35 years of experience in the engineering and construction fields. His experience includes highway design, coal mining layout and design, water and sewer design, ground control surveying, helicopter LiDAR mapping, and aerial mapping. His major emphasis in the past twenty-two years has been aerial mapping in which he has managed over 15,000 projects over the southeastern United States. His firm has been producing digital aerial maps since 1987 and has acquired extensive experience in the utilization of aerial mapping in the digital design of many engineering projects.

## **Additional Staff**

**Brian Bakanas, Professional Surveyor**—Mr. Bakanas is a land surveying party chief responsible for electronic data collection in the field and subsequently analyzing and plotting the field data in the office. He has fifteen years experience, including boundary surveys, construction stakeouts (highway, building, sewer lines, etc.), right of way (highway and utilities), topographical surveys, utility location, well locations and pay quantities.

Mr. Bakanas has an Associates in Science Degree in Land Surveying from Glenville State College.

## **FULL SERVICE ENGINEERING**

*TERRADON's design team has personnel with experience and expertise in roadway and bridge design on numerous WVDOH projects. As a true full service firm TERRADON can provide all necessary personnel to complete project in it's Poca, West Virginia office.*



*TERRADON provided survey and mapping services on the Route 35/I-64 Interchange as part of a Value Engineering solution through Kanawha Stone Company for the WVDOH. The photo above shows the finished interchange.*





# Specialized Experience

## 2. Specialized Experience

TERRADON staff's individual specialized experience is listed on the personnel resumes included in Section 1, Professional Qualifications, as well as detailed resumes in Appendix A.

### AERIAL PHOTOGRAPHY SERVICES

TERRADON will be utilizing the services of Tuck Mapping for the Aerial Mapping requirements of this contract. The Tuck team has expertise and experience in digital and conventional aerial photography (color, black and white, B&W IR and color IR), LiDAR, digital mapping, stockpile volumetric calculation, digital orthophotography, surveying, aerial triangulation, and cross sections. Employees are well-trained for their assignments and maintain current knowledge of new developments. All projects are completed under the supervision of registered professional engineers, licensed land surveyors or certified photogrammetrists.

### EQUIPMENT & SOFTWARE

The latest equipment and software will be utilized to obtain and deliver accurate data and imagery. Survey crews have the latest GPS equipment, electronic total stations, automatic levels and theodolites. The processing staff uses the most current versions of Microstation, AutoCAD and other digital design software. The two fixed-wing aircraft are equipped with Leica RC-30 aerial film cameras or the DSS 322 Digital Color Camera with

azimuth mount. Each of the three helicopters have the Applanix DSS 322 digital camera and Riegl Q560, 680i, or Q480 Full Waveform laser scanners. Our Bell 407 has a gyro-stabilized color Multi Vision FLIR camera system that is geo-referenced into ESRI products for viewing within the GIS system.

### AIRCRAFT

The aerial mapping camera systems are mounted on two aircraft: a Piper Navajo (N190TA) and a Cessna 206 Stationair II (N193TA). Both aircraft are equipped with the GPS Flight Management systems for navigational and camera control to perform aerial photography projects in precise compliance with flight plans.

Three Bell helicopters: a JetRanger BIII (N192TA), a LongRanger III (N194TA), and a 407 (N196TA) are equipped with Tuck's proprietary eagleeye® mapping system that was developed in 2005 in cooperation with Applanix. This is the industry's first matched and integrated LiDAR scanner and digital camera. The eagleeye system was designed for low-altitude mapping where "engineering grade" accuracy is required. The system obtains vertical accuracies of two inches (2") and is ideal for mapping projects such as transmission lines, highway corridors development sites and other engineering projects.

### RIGHT-OF-WAY SERVICES

TERRADON's survey department provides a full range of right-of-way related services including





# Specialized Experience

courthouse research, obtaining property-owner questionnaires and preparation of right-of-way plans in accordance with WVDOH standards. The firm has prepared WVDOH right-of-way plans for the Corridor G Widening project in Kanawha County, Route 9 in Berkeley and Jefferson Counties, Corridor L Widening in Summersville, Grade Road in Berkeley County and Route 35 in Mason County. We have also provided right-of-way plans for our two most recent completed bridges, Sedalia Arch and Sleeths Run.

## SURVEYING

TERRADON Professional surveyors have completed surveys for many WVDOH projects. Besides all TERRADON DOH design projects, our surveyors are sometimes involved in construction stake-out for Kanawha Stone Company, a heavy highway contractor. The staff also provided survey and right-of-way services to Qk4/Presnell for Route 9 in Jefferson and Berkeley Counties; and survey services for Route 35 in Mason County. TERRADON has provided horizontal and vertical surveys of the Ohio River cable stay bridge in Huntington, West Virginia.

### 3. Capacity

TERRADON Corporation and Tuck Mapping Solutions maintains more than 85 full-time staff in order to complete projects in a quality, efficient and timely manner. Both companies maintain staffing protocols in order to supplement staff should project demands increase.

### 4. Past Performance

The TERRADON team has provided engineering services to government and private industry for more than 20 years. During this time, the company has implemented policies and standards to provide solid cost control, quality of work and compliance with performance schedules. The firm has a strong track record of meeting WVDOH performance schedules and consistently scoring above average on consultant evaluations.

TERRADON has many satisfied Government Agency, repeat customers including WVDEP Office of Abandoned Mine Lands and Reclamation, WVDNR Parks & Recreation Section, City of Fairmont, WV, City of Montgomery, WV, Kanawha County Commission, Tennessee Valley Authority, National Oceanic and Atmospheric Administration, Army Corps of Engineers, USGS, US Air Force, FEMA, & US Marine Corps.

The following pages provide project profile synopsis provide an overview of several successful projects TERRADON has completed that are similar in size and scope to the projects that will be part of this contract.



# TERRADON: Related Firm Experience

**Project:** Volcano Island Waterpark/  
Fairmont Coke Works  
**Location:** Fairmont, WV  
**Project Cost:** \$535,000.00  
**Project Date:** 2008  
**Client Name:** City of Fairmont  
**Address:** 200 Jackson Street  
Fairmont, WV 26554  
**Phone:** 304.366.6211  
**Contact:** Jay Rodgers  
City Manager

**Project:** West Virginia State Government  
Office Building  
**Location:** Fairmont, WV  
**Project Cost:** 310,000.00  
**Project Date:** 2010  
**Client Name:** The Omni Associated Architects  
**Address:** 1543 Fairmont Avenue  
Suite 200  
Fairmont, WV 26554  
**Phone:** 304.367.1417  
**Contact:** Dick Forren  
Project Architect

**Project Description:**

TERRADON Corporation performed utility investigation at Fairmont Coke Works and the surrounding areas, totaling approximately 350 acres of utility location and mapping work. The site was mapped utilizing aerial photography. TERRADON field edited aerial mapping and indentified and surveyed all underground utilities.

**KEY PROJECT PERSONNEL**

- » **Robert Thaw**  
Survey Director
- » **Dave Brown**  
Specialist

**Project Description:**

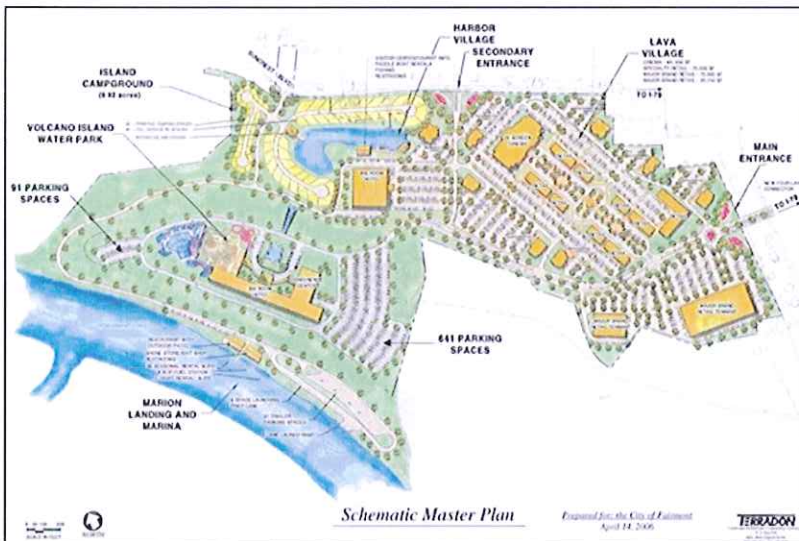
TERRADON provided a design survey for a state government office building located in Fairmont, WV. The survey included boundary survey and utility survey, including the identification of above and below-ground utilities encompassing an entire city block.

**KEY PROJECT PERSONNEL**

- » **Robert Thaw**  
Survey Director
- » **Dave Brown**  
Specialist

The utility information was presented in tabular format on AutoCAD drawings.

All underground utilities were located utilizing conventional survey methods, and presented on detailed mapping generated in AutoCAD complete with Geo referencing.



*The Master Plan at left was developed by TERRADON Corporation as part of the Volcano Island Waterpark/Fairmont Coke Works project in Fairmont, West Virginia. TERRADON's Survey Department performed the utility location and mapping work for the 350-acre site.*



## TERRADON: Related Firm Experience

**Project:** The Bechtel Summit (Boy Scouts of America National Scouting Reserve)  
**Location:** Fayette County, WV  
**Project Cost:** \$1.9 Million  
**Project Date:** Ongoing  
**Client Name:** Trinity Works  
**Address:** 411 Main Street  
Mount Hope, WV 25880  
**Phone:** 304.646.2312  
**Contact:** Rob Ridgeway  
Project Director

### Project Description:

TERRADON Corporation provided a number of services to the Boy Scouts of America's consultant, Trinity Works, on this nearly 11,000 acre site; including survey and location services.

Working under extremely demanding time restrictions, TERRADON has delivered quality results in a timely and efficient manner for what is arguably the premiere project in West Virginia's right now.

TERRADON's survey department has managed work on this site since 2008. TERRADON surveyors have

provided boundary and location surveys throughout the project, and are expected to provide all utility survey once engineers complete the utility design.

The Bechtel Summit is one of the largest infrastructure projects in the State. To accommodate nearly 1.5 million visitors annually, spiking upward of 100,000 per day during world jamboree years, TERRADON is providing design for all water and wastewater utilities.

This project design remains on the leading edge of utility design as TERRADON works with project owners to develop as many 'green' design features as feasible. TERRADON engineers considered 'green' solutions from around the world for this project.

### KEY PROJECT PERSONNEL

- » **Jim Downey**  
Project Director
- » **Robert Thaw**  
Survey Director
- » **Randy Melton**  
Technical Manager
- » **Dave Brown**  
Specialist
- » **Bud McCallister**  
Senior Engineer



*TERRADON Corporation provided location surveys and utility design for the nearly 11,000-acre site in Fayette County, WV, helping to put in place one of the largest infrastructures in the State.*



## TERRADON: Related Firm Experience

**Project:** DOW Tech Park: Kanawha Valley CTC, Building 2000  
**Location:** South Charleston, WV  
**Project Cost:** \$60,000  
**Project Date:** Ongoing  
**Client Name:** The Omni Associated Architects  
**Address:** 1543 Fairmont Avenue Suite 200 Fairmont, WV 26554  
**Phone:** 304.367.1417  
**Contact:** Dick Forren Project Architect

**Project:** Charleston Relocation Housing  
**Location:** Charleston, WV  
**Project Cost:** \$776,000  
**Project Date:** Ongoing  
**Client Name:** Alan Ives Construction Company  
**Address:** 10 South La Salle Street Suite 3440 Chicago, IL 60603  
**Phone:** 312.580.0085  
**Contact:** Paul Gotta Project Director

### Project Description:

TERRADON performed a survey on the proposed Kanawha Valley CTC site located at the DOW Tech Park. The survey included two parcels totaling approximately 20 acres. An underground utility investigation was performed utilizing existing mapping and utility sketches for the Tech Park. Part of the storm water investigations was to reconcile the fresh water storm system that discharged into the Kanawha River and the storm water system that discharged into the South Charleston PSD treatment facility. Detailed mapping was prepared for the sites showing all underground utility locations and geo referenced.



**KEY PROJECT PERSONNEL**  
 » Robert Thaw Survey Director  
 » Dave Brown Specialist

### Project Description:

TERRADON has performed detailed underground surveys for nine (9) Charleston Relocation Housing projects, including:

- » Orchard Manor
- » Washington Manor
- » Little Page Terrace
- » KVSS

The surveys included all aboveground features and all underground utilities. The City of Charleston historical records were utilized extensively to reconcile the underground utilities. While the project was under construction, TERRADON survey crews were available to locate any underground utility that the excavation by construction crews discovered.

Detailed mapping was geo referenced in AutoCAD format.

**KEY PROJECT PERSONNEL**  
 » Jim Downey Project Director  
 » Bud McCallister Senior Engineer  
 » Robert Thaw Survey Director  
 » Dave Brown Specialist



# Capacity

## FLOWING SPRINGS ROAD JEFFERSON COUNTY, WV

**Project:** Flowing Springs Road, Jefferson County, WV

**Owner:** WVDOH

**Project Manager:** John Morrison

**Contact Phone:** 304.558.9740

**Project Description:** TERRADON Corporation provided services on the Flowing Springs Road project in Jefferson County, WV. The project involved the design and preparation of construction contract plans and related documents for a segment of Jefferson County Route 17 (Flowing Springs Road).

The project consisted of re-alignment and reconstruction of the existing two-lane roadway. TERRADON provided Aerial Photography, Panel Layout and Control Survey, and Digital Contour Mapping.

## SLEETHS RUN BRIDGE LEWIS COUNTY, WV

**Sleeths Run Bridge, Lewis County, West Virginia**

**Owner:** WVDOH

**Project Manager:** Mr. Bill Murray, P.E.

**Contact Phone:** 304.558.9741

**Project Description:** Structural Engineering for the replacement of a truss bridge with a 200'-0" bridge and roadway design for the approaches. Project included roadway design, drainage, maintenance of traffic and right-of-way plans.

## SEDALIA ARCH BRIDGE DODDRIDGE COUNTY, WV

**Sedalia Arch Bridge, Doddridge County, West Virginia.**  
**Owner:** WVDOH

**Project Manager:** Mr. Bill Murray, P.E..

**Contact Phone:** 304.558.9741.

**Project Description:** Replacement of an existing single span concrete arch bridge with a 72'-0" single span bridge. Bridge consisted of adjacent concrete prestressed box beams with a cast-in-place concrete deck. Roadway design consisted of new bridge approaches and a designed detour, along with drainage, maintenance of traffic and right-of-way plans.

## GRADE ROAD BERKELEY COUNTY, WV

**Project:** Grade Road, Berkeley County, West Virginia

**Owner:** WVDOH

**Project Manager:** John Morrison

**Contact Phone:** 304.558.9740

**Project Description:** TERRADON provided services to study, design and prepare construction contract plans for Grade Road. The project consisted of the new construction of two lanes adjacent to an existing two-lane roadway in order to provide a four-lane facility. TERRADON provided Contour Mapping, field surveys, Right-of-Way plans and Questionnaires.



# Past Experience

## I81 PULASKI/MONTGOMERY PULASKI, VA

### **Project: I81 Pulaski/Montgomery**

**Owner:** Virginia Department of Transportation

Tuck Mapping worked for Rice & Associates to acquire helicopter LiDAR data and color imagery to cover a corridor approximately two miles long and two thousand feet wide for the bridges and approaches to New River at Radford. The project consisted of widening a four lane corridor to six lanes, along with two frontage roads. Contour Mapping, Survey, Geometric design, drainage, maintenance of traffic, and signing and marking plans are all a part of this project. Project also included the widening of one existing bridge and the design of a bridge on the frontage road. Project was placed on hold in 2005.

Helicopter LiDAR data was used to develop the digital terrain model data. Breaklines developed from conventional photogrammetry were sampled using the helicopter LiDAR data.

## MARTINSBURG DRAINAGE STUDY MARTINSBURG, WV

### **Project: Martinsburg Drainage Study, Martinsburg, WV**

**Owner:** WVDOH

**Project Manager:** John Morrison

**Contact Phone:** 304.558.9740

**Project Description:** TERRADON Corporation was contracted to perform a drainage study for the City of Martinsburg, WV. The project involved the development of

a comprehensive drainage study comparing pre and post development conditions. TERRADON performed aerial photography, mapping, right-of-way and survey services as part of this contract.

## CORRIDOR L NICHOLAS COUNTY, WV

### **Project: US 19 Widening, Nicholas County, WV**

**Owner:** WVDOH

**Project Manager:** Mr. John Morrison

**Contact Phone:** 304.558.9740

**Project Description:** Terradon performed a GPS static network and placed aerial mapping target control for aerial mapping for the project. Additionally, we performed boundary ties, hydraulic cross sections, mapped existing underground and above ground utilities, and established reference points for the project.

## PINE CREEK / OMAR LCAP LOGAN COUNTY, WV

### **Project: Pine Creek / Omar LCAP (150 acre site)**

**Owner:** WVDEP

**Project Manager:** Daniel L. Fowler

**Contact Phone:** 304.926.0455

**Project Description:** Terradon performed a GPS static network and placed aerial mapping target control for aerial mapping for the project. Additionally, we mapped utilities for the design of the closing of an approximate 12 acre abandoned Municipal Solid Waste Landfill.





# Past Experience

## THE SUMMIT: BECHTEL NATIONAL SCOUTING RESERVE FAYETTE COUNTY, WV

**Project:** The Summit: Bechtel National Scouting Reserve, Fayette County, WV

**Owner:** Boy Scouts of America

**Project Manager:** Mr. Rob Ridgeway

**Contact Phone:** 304.646.2312

**Project Description:** The Summit: Bechtel National Scouting Reserve is an 11,000-acre site in Fayette County, WV where the Boy Scouts of America will be moving its national scouting reserve headquarters. TERRADON has been involved since the inception of this project, aiding in the site selection process, providing aerial photography, survey, and mapping services. Additionally, TERRADON has provided Geotechnical, Environmental and Civil engineering services for the site.

## STONE MOUNTAIN STONE MOUNTAIN, TN

**Project:** Stone Mountain, Stone Mountain, TN

**Owner:** Ted Thieman

**Project Manager:** Mr. Ted Thieman

**Contact Phone:** 239.634.4234

**Project Description:** Terradon performed a GPS static network and placed aerial mapping target control for aerial mapping for the 6,250 acre residential development project.

## BLACK DIAMOND RANCH CRAIG COUNTY, VA

**Project:** Black Diamond Ranch

**Owner:** Hunter Company of WV

**Project Manager:** Brad Hoffmaster II

**Contact Phone:** 304.262.2770

**Project Description:** Terradon performed a GPS static network and placed aerial mapping target control for aerial mapping for the 1700 acre residential subdivision project, which included roadway and utility design and construction layout.



## **I-66 FAIRFAX**

FAIRFAX, VA

### **Project: I-66 Fairfax**

Owner: Virginia Department of Transportation

Tuck Mapping completed this project for the Virginia Department of Transportation. The project was eight miles in length and extended from the Route 50 interchange to I-495. DTM data was required to be accurate to +/- 0.05' on the pavement. Due to airspace restrictions, TMSI used the eagleeye system in the Bell Long Ranger helicopter to acquire digital imagery and LiDAR data. Ground control was placed by Rice Associates at predetermined locations. Horizontal control was established using static & RTK GPS while digital leveling was used to establish elevations. TMSI personnel occupied ground base stations during the helicopter flight. Detailed mapping of all pavement including all joints was acquired from the digital imagery. The LiDAR produce data meeting the required accuracy and all breaklines were sampled to accurate them. All LiDAR data was removed from the pavements after sampling. Separate datasets were provided for bare earth, sound walls, utility structures and overhead signs. The project was subdivided and staged delivery allowed delivery of mapping, DTM, and orthophotos in a logical manner.

## **ROUTE 860**

FLOYD COUNTY, VA

### **Project: Route 860**

Owner: Virginia Department of Transportation

Tuck Mapping completed this project for the Virginia Department of Transportation. The project required 1"=25' mapping and 1' contours with 0.25' pixel color orthophotography on a two mile corridor 650' left and right of the centerline of the existing road. Ground control and field surveyed edge of pavements were provided by Thompson & Litton. TMSI acquired 1"3000 color imagery of the project with a twin engine aircraft and Leica RC30 aerial camera. Film was scanned and aerotriangulation performed at the Big Stone Gap office. Compilation of the project was completed and data provided to Thompson & Litton for annotation and field updates. TMSI flew the corridor using helicopter LiDAR to produce the data necessary to support a 1' contour interval. The mapping covered 450' left and right of the centerline while the DTM, contours and color orthophotos extended to 650'. Mapped breaklines were sampled to LidAR data; field located pavements were added; and final tin, DTM and contours were produced. Thompson and Litton added field data to the mapping and utility files.

### **5. Location Relative to the Project Site**

TERRADON Corporation maintains a West Virginia headquarters office in Poca, WV where all work for this contract will be coordinated. The Poca, WV headquarters serves clients throughout the State of West Virginia on a daily basis and routinely provides services in surrounding states. TERRADON's headquarters is supported by a second location in Lewisburg, WV.



# Additional Information

## CONSULTANT CONFIDENTIAL QUALIFICATION QUESTIONNAIRE

TERRADON has a current CCQQ dated January 1, 2010 on file with the Division.

## LOCATION WHERE THE WORK WILL BE PERFORMED

TERRADON will perform the work at its Headquarters in Poca, West Virginia. Supporting the Poca headquarters will be TERRADON's Lewisburg, WV office.

## WORK TO BE PERFORMED BY SUBCONSULTANT

TERRADON will utilize the services of Tuck Mapping for Digital and Conventional Aerial Photography and Digital Mapping.

## COST ACCOUNTING SYSTEM STATEMENT

TERRADON employs full-time accounting staff that maintains an extensive cost accounting system. The firm utilizes Deltek accounting software which is capable of segregating and identifying accumulated costs for each job that is performed under cost-type contracts. Time charged to the project is tracked by both phase and task, and is used as a management tool for tracking and maintaining schedule control.

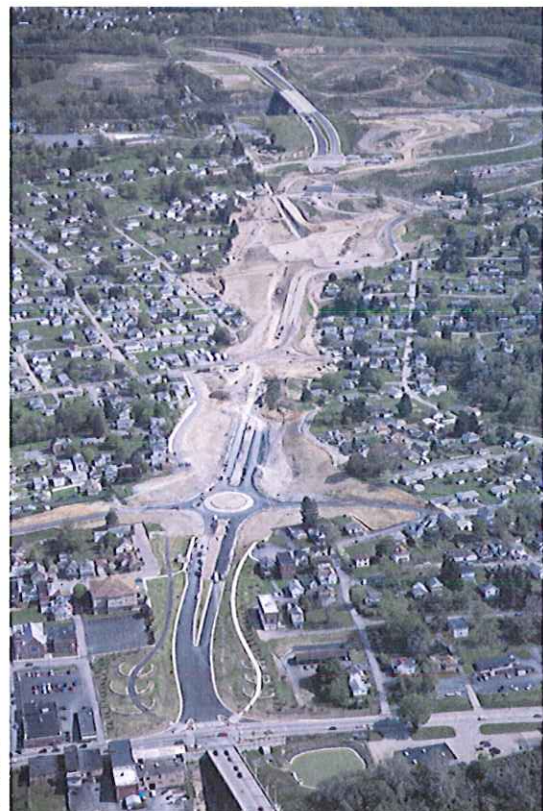
*TERRADON provided survey services as part of a value engineering solution for the Fairmont Connector in Marion County, WV. The photo above shows the project during construction.*

## SHORTLIST SELECTION CRITERIA TECHNICAL EVALUATION

TERRADON Corporation maintains a valid 'Certificate of Authorization' from the West Virginia Board of Professional Engineers to offer engineering services within the State. As requested, one loose leaf copy of the form has been provided as an accompaniment to this statement of qualifications.

## CERTIFICATES OF AUTHORIZATION

Copies of TERRADON's certificates are included in the appendices of this proposal.



**TERRADON** CORPORATION

# Appendix A—Resumes of Key Employees

## Robert Thaw, P.S.

Survey Department Head

Mr. Thaw is Manager of Surveying Services for TERRADON. He organizes and supervises survey crews; designs commercial sites for drainage, building site locations, parking and utility easements; reviews project plans; and creates base mapping. Mr. Thaw has more than 24 years of experience in a wide range of land surveying applications. He is experienced with the day-to-day operation of the business and management of personnel.

### Education

- » B.A., Survey Technology, 1981, West Virginia Institute of Technology
- » B.S., Surveying, 1985, West Virginia Institute of Technology

### Work Experience

- » Terradon Corporation  
1994-Present
- » Bowman Land Surveying  
1992-1994
- » Dunn Engineers  
1990-1992
- » Kelley Gidley Blair and Wolf  
1988-1990
- » Pierson & Whitman Architects and Engineers  
1984-1986

### Registration

- » Professional Surveyor, West Virginia

### Recent Project Experience Highlights

- » Control Surveys - Conventional and G.P.S.
- » Topographic Surveys
  - » Commercial Sites under ALTA Standards
  - » Abandoned Mine Lands
- » Waste Management Facilities
- » Boundary Surveys
- » Right of Way Plans (Highways and Utilities)
- » Site Design (Commercial and Urban Developments)
- » Gas Well Locations and Permitting
- » Construction Stakeout
  - » Commercial Buildings
  - » Sanitary Sewer
  - » State and Federal Highways





# Appendix A—Resumes of Key Employees

## Randy A. Melton, PS

Project Manager

Melton serves as a Senior Project Manager for TERRADON Corporation. Melton is responsible for all TERRADON survey equipment and practice management. Additionally, Melton directs field crews and field operations as well as provides strategic leadership and training within the survey group.

### Education

- » A.S. Land Surveying  
Glennville State College

### Work Experience

- » 2009-2010 Trimble Machine Control System Sales and Support Technician, Precision Laser & Instrument Inc.
- » 1995-2009 President, GPS Innovations Inc, a Trimble Machine Control Dealer, Trimble Marine Dealer, Trimble Robotic Total Station & Trimble GPS Systems Sales, All Trimble Product Technical Support, System Integration, and Training, Cross Lanes, WV
- » 1994-1995 Project Manager, Terradon Corporation, Rock Branch, WV
- » 1991-1994 President, Bowman Land Surveying Company, Inc., Cross Lanes, WV
- » 1990-1991 Field Engineer, PCL Civil, Southport Bulkhead Facility, Ft. Lauderdale, FL
- » 1987-1990 Chief of Surveys, Westbrook, Pck. DEF& V Highway Interchange, Ft. Lauderdale, FL
- » 1986-1987 Certified Concrete Quality Control Technician, Westbrook Construction, Glade Creek Bridge, Beckley, WV
- » 1985-1985 Professional Surveyor, Eagle Engineering, Alum Creek, WV
- » 1984-1985 Office Engineer, Green Construction, Green Sulphur Springs, WV
- » 1982-1984 Manager, Field Surveying Operations, Stagg Engineering Services, Cross Lanes, WV
- » 1981-1982 Surveyor, Cabot Oil and Gas, Charleston, WV
- » 1979-1981 Draftsman, Wilkinson Engineering, Dunbar, WV

### Certifications

- » Professional Surveyor, West Virginia

### Recent Project Experience

- » The Natchez Trace Parkway Bridge, PCL Civil Construction, Franklin, TN. Subcontractor responsible for QA / QC of the contract documents, original control surveys, sections, and crane access road design.
- » A \$28 million dollar commercial seawall facility including 900,000 yards dredging, 4,600 LF of bulkhead, 500 foot long pier, and 2,740 LF of crane runway space. Southport Bulkhead Facility, Field Engineer, PCL Civil, Port Everglades, FL.
- » A 121 million dollar contract, Pck. DEF and V Highway Interchange, Harbert/Westbrook, Ft. Lauderdale, FL. Managed survey department responsible for stakeout of 22 bridges under simultaneous construction.
- » A 22 million dollar bridge contract, Glade Creek Bridge, Westbrook Construction, Beckley, WV. Responsible for all survey layout computations, concrete quality control testing, quantity reports, and safety. Quality Control & Field Engineering.
- » I-64 Highway Projects 343, 345, & 355. Responsibilities included the daily supervision of subcontracted survey crews, preparation of detailed structure drawings, supervision of end dam installation, final deck grade calculations, revision of earthwork quantity summaries, and subgrade calculations. Additionally assigned the task of initiating a computerized system for the preparation of quarterly cost projections and daily cost analysis reports. Green Construction, Office Engineer, Green Sulphur Springs, WV.





# Appendix A—Resumes of Key Employees

## Dave Brown, P.S.

Right-of-Way/Survey Project Manager

Since joining TERRADON in 1999, Dave Brown has been involved in highway design/right of way projects and many surveying projects in West Virginia and surrounding states. Mr. Brown is responsible for conducting and or supervising ALTA/ACSM surveys, boundary surveys, gps surveys, control surveys, topographical surveys, highway right of way projects, and detailed site/utility surveys, for various geotechnical, environmental and civil projects.

### Education

B. S Engineering Technology/Surveying  
West Virginia Institute of Technology

### Work Experience

1999 to Present  
TERRADON Corporation (Professional Surveyor)  
1997 - 1999  
Trans-Ash (Project Engineer)  
1997 - 1997  
Summit Engineering (Draftsman/Design)  
1996 – 1997  
USGS (Hydrologic Technician)

### Certifications

Professional Surveyor, West Virginia  
Professional Surveyor, Tennessee

### Recent Project Experience Highlights

Mr. Brown's responsibilities include survey project management, GPS networks, control surveys, development of highway right of way plans, boundary solutions, reports, courthouse research, drafting, construction staking, survey data reduction, and preparation of surveying cost estimates and proposals.

- » Black Diamond Subdivision(1656 Acres),  
Craig County, VA
- » John Amos Plant Industrial Landfill  
Bill's Creek, Putnam County, WV
- » Beech Ridge Wind Tower Project  
Greenbrier County, WV
- » WVDOH Corridor L Right of Way Project  
Summersville, WV
- » Allegheny Energy Pleasants County Power Station ALTA  
Survey  
St. Mary's , WV
- » The Woodlands Subdivision  
Summersville, WV
- » Liberty Square Boundary/Topographic/Utility Survey  
Winfield, WV





# Appendix A—Resumes of Key Employees

## Brian P. Bakanas, P.S.

Survey Technician

Mr. Bakanas is a land surveying party chief responsible for electronic data collection in the field and subsequently analyzing and plotting the field data in the office. He has fifteen years experience, including boundary surveys, construction stakeouts (highway, building, sewer lines, etc.), right of way (highway and utilities), topographical surveys, utility location, well locations and pay quantities.

### Education

- » A.A.S. Land Surveying  
Glennville State College

### Work Experience

- » 1995-Present  
TERRADON Corporation
- » 1991-1994  
Dunn Engineers, Inc.
- » 1988-1991  
Czop/Spector, Inc.
- » 1986-1988  
V & I Associates

### Registration

- » Professional Surveyor: West Virginia
- » Professional Surveyor: Pennsylvania

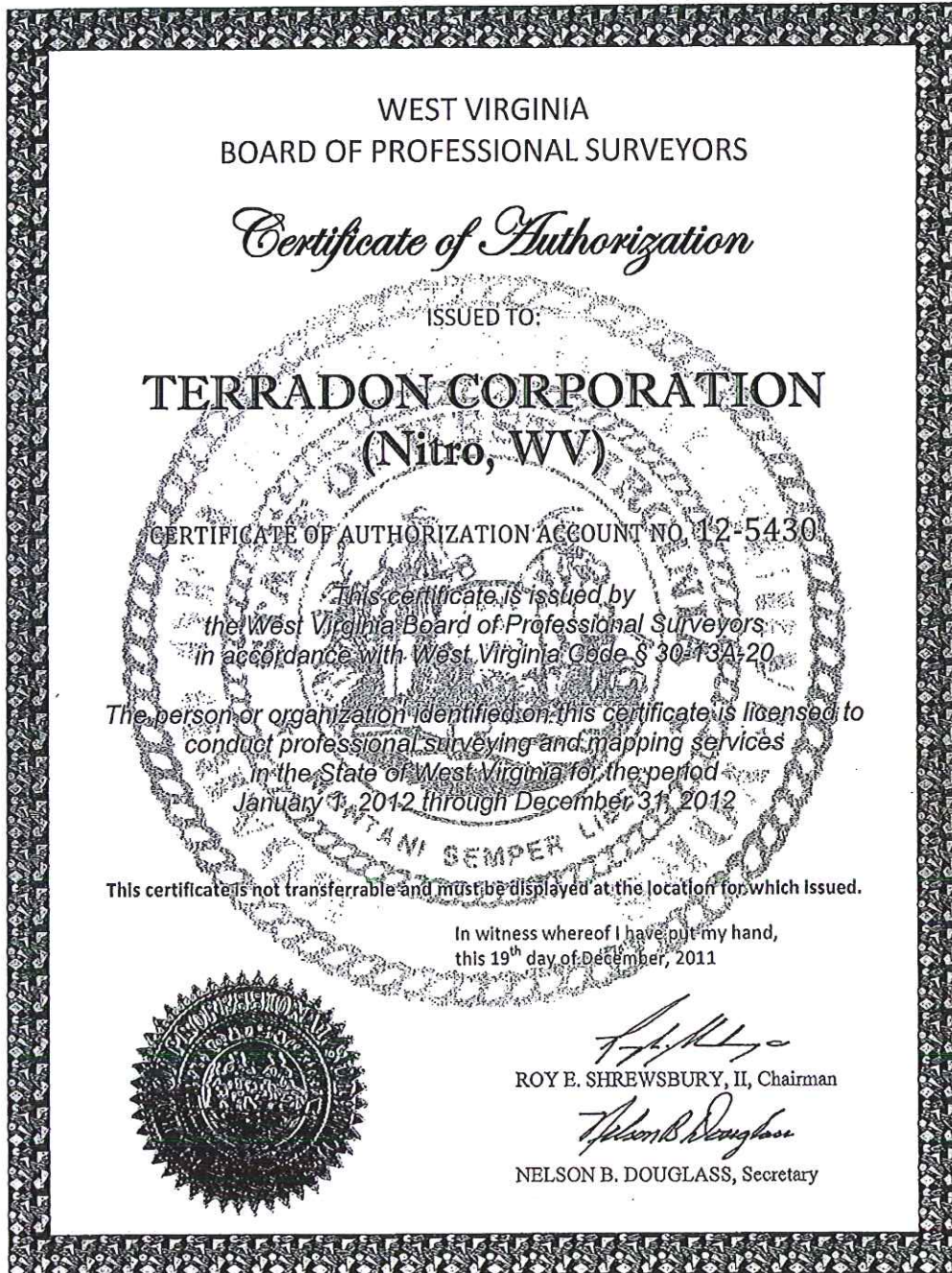
### Recent Project Experience

- » Construction - Ford Electronics Facility, Dublin Twp, Pennsylvania. Stakeout for site grades, roads, storm and sanitary sewers, and detention basins.
- » Rorer Pharmaceutical Plant, Collegeville, Pennsylvania, Stakeout horizontal, vertical control, and column lines.
- » Chief Logan State Park Dam Project, Logan, West Virginia. Stakeout dam, riser, road and parking lots, and clearing limits. Electronic data collection of road, dam, and borrow area sections. Analysis and plotting of field data.
- » Surface Mines - AML Reclamation, Hansford, West Virginia. Electronic data collection of sections on slide and reclamation of slide.
- » Appalachian Mining Permits, Smithers, West Virginia. Topographic and G.P.S. survey of roads, ponds, and gas well locations.
- » Site Assessment - Monsanto Armour Creek Site, Nitro, West Virginia. Horizontal/Vertical S/O and location of monitoring wells at landfill. Topographic survey for drainage assessment.
- » Construction Staking - Marshall University John Deaver Drinko Library, Huntington, WV and University High School, Morgantown, WV.
- » Boundary Survey - 1100 Acre Power Plant located in





# Appendix B—Certificates of Authorization





# Appendix B—Certificates of Authorization

## CERTIFICATE OF *Authorization*

STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS

*The West Virginia State Board of Registration for Professional Engineers  
having verified the person in responsible charge is registered in  
West Virginia as a professional engineer for the noted firm, hereby certifies*

**TERRADON CORPORATION  
C00901-00**

**Engineer in Responsible Charge: MUHAMMAD RIAZ - WV PE 014152**

*has complied with section S30-13-17 of the West Virginia Code governing  
the issuance of a Certificate of Authorization. The Board hereby notifies you of its  
certification with issuance of this Certificate of Authorization for the period of:*

**October 28, 2011 - June 30, 2012**

*providing for the practice of engineering services in the State of West Virginia.*



IF YOU ARE REQUIRED TO REGISTER WITH THE SECRETARY OF STATE'S OFFICE,  
PLEASE SUBMIT THIS CERTIFICATE WITH YOUR APPLICATION.

IN TESTIMONY WHEREOF, THE WEST VIRGINIA STATE BOARD OF  
REGISTRATION FOR PROFESSIONAL ENGINEERS HAS ISSUED THIS COA  
UNDER ITS SEAL, AND SIGNED BY THE PRESIDENT OF SAID BOARD.

BOARD PRESIDENT



**TERRADON** CORPORATION